

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P821298

Luminaire Tested: **TT-D3-740-24VDC-MQ-HSS**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P821298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D3-740-24VDC-MQ-HSS  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

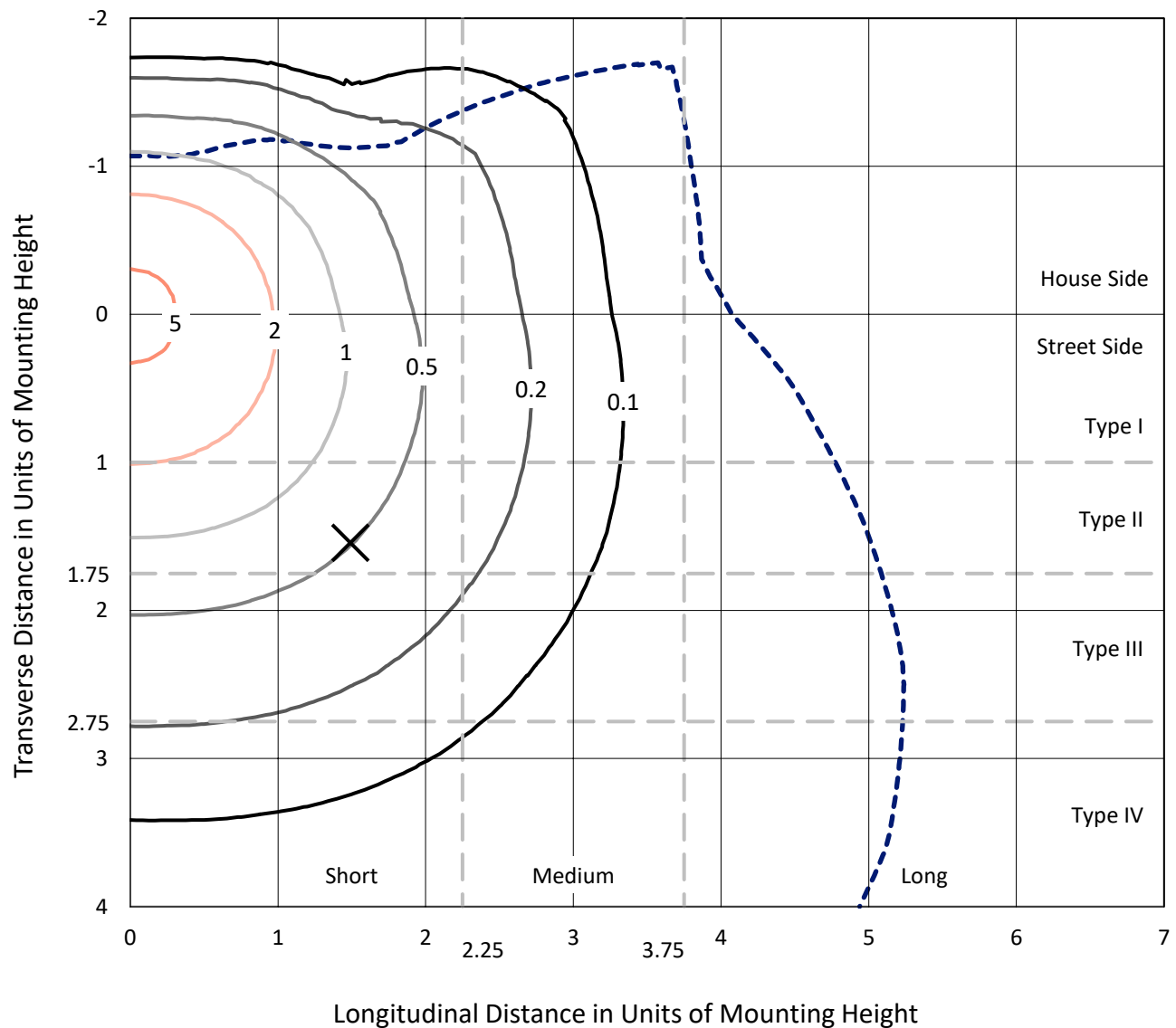
Lumens per Lamp: N/A  
Luminaire Lumens: 5658.9 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U2 - G2

Input Watts (W): 46  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

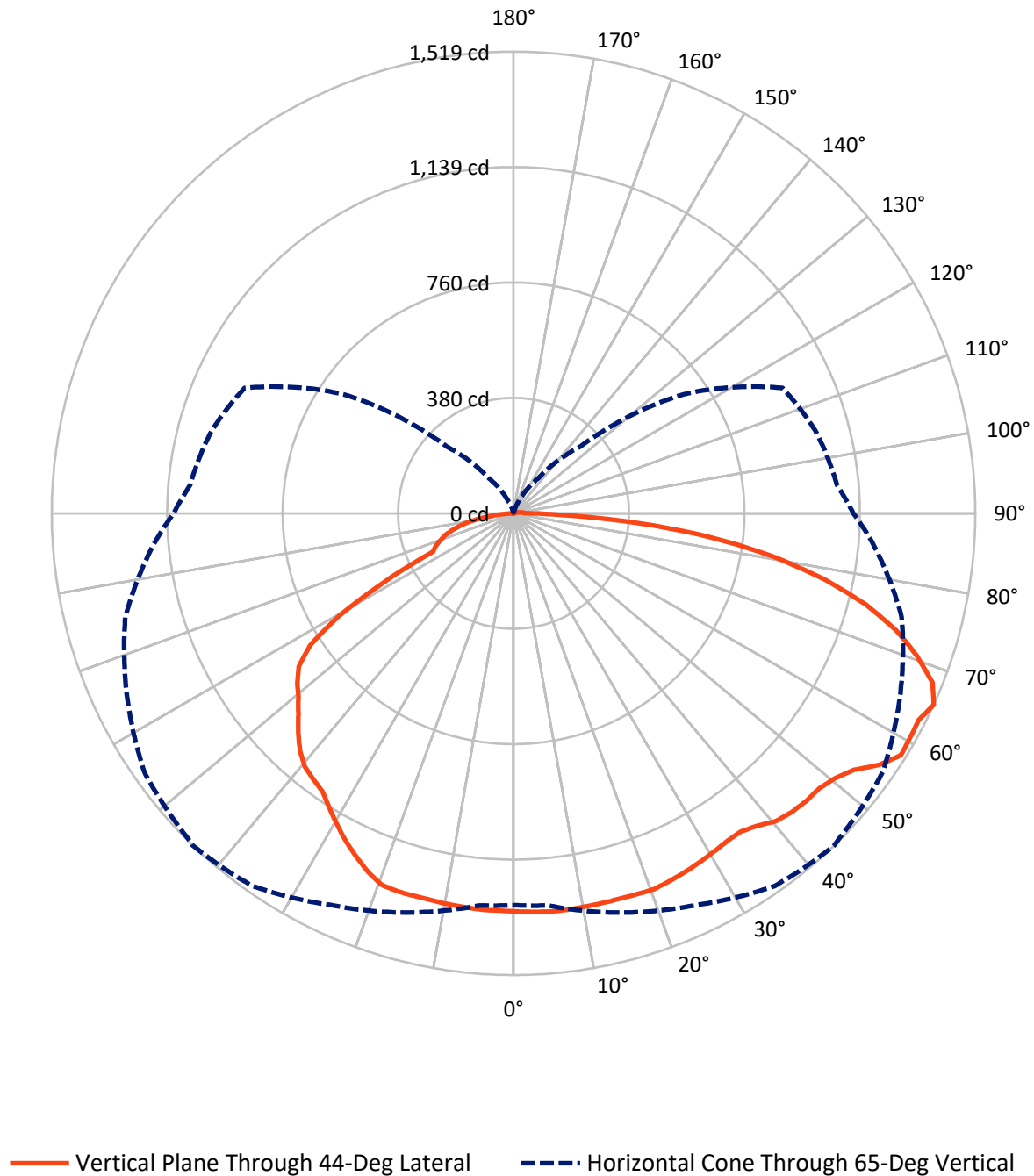
× Max cd  
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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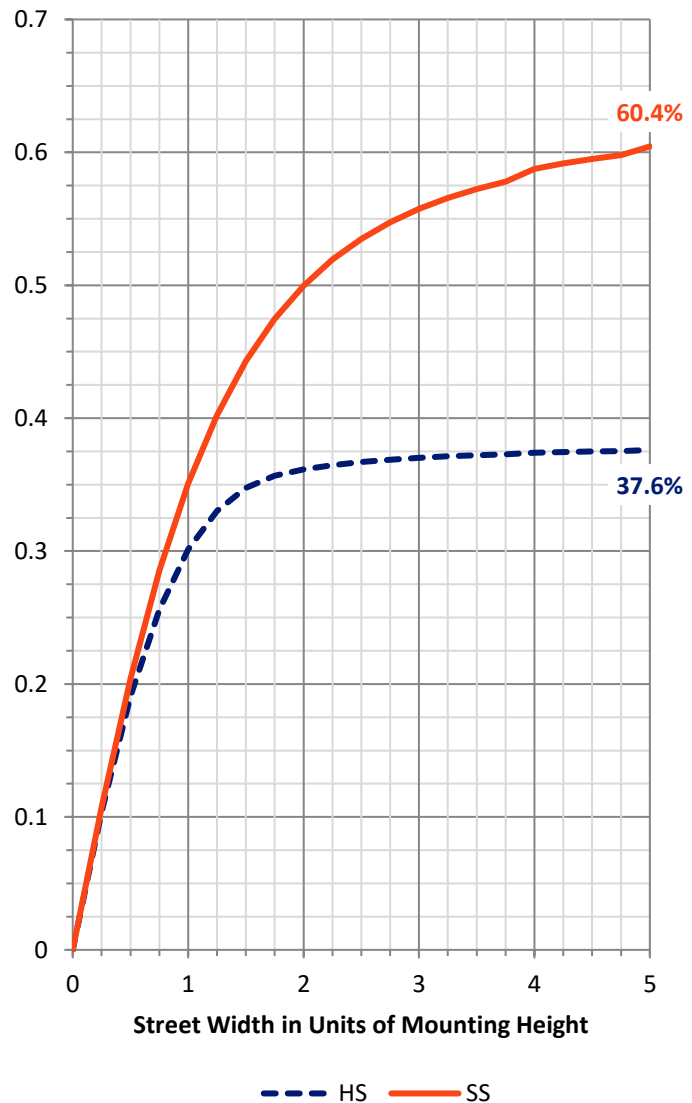
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2142.7   | 1.5    | 2144.2 |
|                    | % Fixture | 37.9     | 0.0    | 37.9   |
| <b>Street Side</b> | Lumens    | 3495.5   | 19.2   | 3514.7 |
|                    | % Fixture | 61.8     | 0.3    | 62.1   |
| <b>Total</b>       | Lumens    | 5638.2   | 20.7   | 5658.9 |
|                    | % Fixture | 99.6     | 0.4    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.1  | 2.2       |
| 10°-20°   | 370.3  | 6.5       |
| 20°-30°   | 589.3  | 10.4      |
| 30°-40°   | 755.0  | 13.3      |
| 40°-50°   | 894.5  | 15.8      |
| 50°-60°   | 979.6  | 17.3      |
| 60°-70°   | 931.2  | 16.5      |
| 70°-80°   | 741.4  | 13.1      |
| 80°-90°   | 251.9  | 4.5       |
| 90°-100°  | 13.3   | 0.2       |
| 100°-110° | 4.4    | 0.1       |
| 110°-120° | 1.0    | 0.0       |
| 120°-130° | 0.6    | 0.0       |
| 130°-140° | 0.5    | 0.0       |
| 140°-150° | 0.4    | 0.0       |
| 150°-160° | 0.3    | 0.0       |
| 160°-170° | 0.2    | 0.0       |
| 170°-180° | 0.1    | 0.0       |
| 0°-90°    | 5638.2 | 99.6      |
| 0°-180°   | 5658.9 | 100.0     |

**Coefficient of Utilization**



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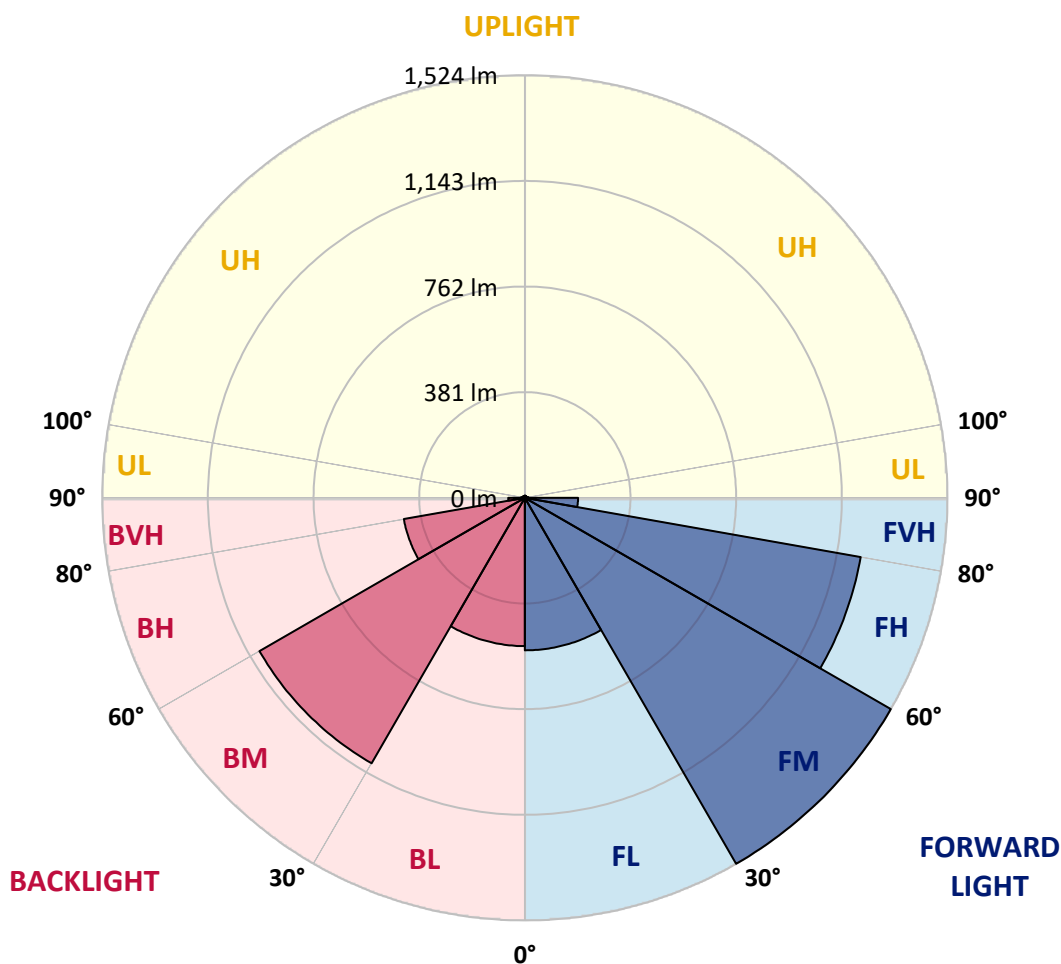
CATALOG NUMBER: TT-D3-740-24VDC-MQ-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 550.0  | 9.7       |                         |       |         |
| FM   | (30°-60°)   | 1523.9 | 26.9      |                         |       |         |
| FH   | (60°-80°)   | 1229.7 | 21.7      |                         |       | G1/1800 |
| FVH  | (80°-90°)   | 191.8  | 3.4       |                         |       | G2/225  |
| BL   | (0°-30°)    | 534.7  | 9.4       | B2/1000                 |       |         |
| BM   | (30°-60°)   | 1105.2 | 19.5      | B2/2500                 |       |         |
| BH   | (60°-80°)   | 442.8  | 7.8       | B1/500                  |       | G1/500  |
| BVH  | (80°-90°)   | 60.0   | 1.1       |                         |       | G1/100  |
| UL   | (90°-100°)  | 13.3   | 0.2       |                         | U2/50 |         |
| UH   | (100°-180°) | 7.4    | 0.1       |                         | U1/10 |         |

**BUG Rating: B2-U2-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 44°  | 45°  | 55°  | 65°  | 75°  | 85°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 0°     | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 |
| 2.5°   | 1315 | 1314 | 1314 | 1314 | 1314 | 1313 | 1314 | 1312 | 1313 | 1310 | 1310 |
| 5°     | 1318 | 1316 | 1317 | 1317 | 1317 | 1316 | 1317 | 1314 | 1315 | 1311 | 1310 |
| 7.5°   | 1319 | 1318 | 1318 | 1318 | 1318 | 1316 | 1317 | 1315 | 1314 | 1311 | 1309 |
| 10°    | 1319 | 1318 | 1318 | 1318 | 1317 | 1315 | 1316 | 1313 | 1313 | 1309 | 1307 |
| 12.5°  | 1319 | 1318 | 1319 | 1317 | 1317 | 1315 | 1315 | 1312 | 1312 | 1307 | 1305 |
| 15°    | 1318 | 1317 | 1317 | 1318 | 1317 | 1315 | 1315 | 1312 | 1311 | 1305 | 1303 |
| 17.5°  | 1317 | 1316 | 1317 | 1318 | 1319 | 1317 | 1318 | 1313 | 1311 | 1305 | 1302 |
| 20°    | 1318 | 1317 | 1318 | 1320 | 1320 | 1320 | 1320 | 1315 | 1311 | 1305 | 1300 |
| 22.5°  | 1315 | 1315 | 1315 | 1315 | 1317 | 1314 | 1314 | 1311 | 1306 | 1301 | 1296 |
| 25°    | 1308 | 1308 | 1309 | 1310 | 1310 | 1308 | 1307 | 1304 | 1300 | 1294 | 1288 |
| 27.5°  | 1300 | 1300 | 1301 | 1301 | 1303 | 1301 | 1300 | 1296 | 1292 | 1285 | 1278 |
| 30°    | 1291 | 1291 | 1291 | 1293 | 1294 | 1294 | 1293 | 1288 | 1283 | 1275 | 1266 |
| 32.5°  | 1281 | 1281 | 1284 | 1286 | 1287 | 1287 | 1287 | 1281 | 1275 | 1265 | 1252 |
| 35°    | 1273 | 1273 | 1277 | 1284 | 1288 | 1286 | 1285 | 1281 | 1272 | 1261 | 1240 |
| 37.5°  | 1278 | 1278 | 1287 | 1297 | 1306 | 1304 | 1304 | 1297 | 1285 | 1267 | 1241 |
| 40°    | 1290 | 1291 | 1305 | 1318 | 1329 | 1331 | 1331 | 1323 | 1305 | 1282 | 1246 |
| 42.5°  | 1293 | 1295 | 1309 | 1328 | 1338 | 1343 | 1343 | 1332 | 1313 | 1286 | 1244 |
| 45°    | 1293 | 1294 | 1310 | 1330 | 1346 | 1350 | 1350 | 1338 | 1314 | 1288 | 1237 |
| 47.5°  | 1293 | 1292 | 1306 | 1334 | 1350 | 1353 | 1353 | 1340 | 1317 | 1284 | 1227 |
| 50°    | 1290 | 1295 | 1316 | 1338 | 1366 | 1370 | 1369 | 1355 | 1323 | 1289 | 1219 |
| 52.5°  | 1297 | 1296 | 1324 | 1368 | 1393 | 1402 | 1403 | 1385 | 1352 | 1303 | 1214 |
| 55°    | 1326 | 1327 | 1354 | 1405 | 1443 | 1460 | 1458 | 1435 | 1388 | 1331 | 1228 |
| 57.5°  | 1336 | 1346 | 1385 | 1429 | 1487 | 1502 | 1502 | 1474 | 1417 | 1353 | 1238 |
| 60°    | 1316 | 1320 | 1368 | 1443 | 1496 | 1499 | 1500 | 1480 | 1420 | 1341 | 1218 |
| 62.5°  | 1311 | 1319 | 1356 | 1440 | 1474 | 1496 | 1495 | 1468 | 1417 | 1332 | 1211 |
| 65°    | 1289 | 1295 | 1360 | 1422 | 1497 | 1519 | 1514 | 1483 | 1404 | 1322 | 1189 |
| 67.5°  | 1244 | 1250 | 1310 | 1397 | 1465 | 1486 | 1491 | 1455 | 1373 | 1275 | 1142 |
| 70°    | 1169 | 1178 | 1239 | 1324 | 1396 | 1408 | 1406 | 1384 | 1302 | 1197 | 1073 |
| 72.5°  | 1064 | 1078 | 1155 | 1236 | 1298 | 1316 | 1308 | 1283 | 1216 | 1103 | 979  |
| 75°    | 953  | 966  | 1027 | 1118 | 1183 | 1195 | 1189 | 1159 | 1091 | 980  | 868  |
| 77.5°  | 832  | 843  | 895  | 988  | 1036 | 1046 | 1049 | 1009 | 945  | 845  | 745  |
| 80°    | 669  | 674  | 744  | 805  | 847  | 867  | 865  | 835  | 771  | 688  | 588  |
| 82.5°  | 494  | 498  | 552  | 604  | 642  | 660  | 650  | 620  | 569  | 498  | 422  |
| 85°    | 303  | 296  | 340  | 379  | 402  | 414  | 404  | 387  | 342  | 286  | 233  |
| 87.5°  | 109  | 103  | 123  | 129  | 155  | 151  | 160  | 129  | 104  | 74   | 52   |
| 90°    | 48   | 48   | 47   | 45   | 41   | 37   | 36   | 30   | 22   | 14   | 5    |
| 92.5°  | 44   | 44   | 43   | 41   | 37   | 33   | 33   | 27   | 20   | 13   | 5    |
| 95°    | 37   | 37   | 36   | 34   | 31   | 28   | 28   | 22   | 17   | 11   | 4    |
| 97.5°  | 29   | 29   | 28   | 27   | 24   | 22   | 22   | 18   | 13   | 8    | 3    |
| 100°   | 22   | 22   | 21   | 20   | 19   | 17   | 16   | 13   | 10   | 6    | 2    |
| 102.5° | 16   | 16   | 16   | 15   | 13   | 12   | 12   | 10   | 7    | 5    | 2    |
| 105°   | 11   | 11   | 11   | 10   | 9    | 8    | 8    | 7    | 5    | 3    | 1    |
| 107.5° | 7    | 7    | 7    | 7    | 6    | 5    | 5    | 4    | 3    | 2    | 1    |
| 110°   | 4    | 3    | 4    | 4    | 4    | 3    | 3    | 2    | 2    | 1    | 1    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|--------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 2  | 2  | 2   | 2   | 2   | 2   | 2   | 1   | 1   | 1   | 1   |
| 115°   | 1  | 1  | 1   | 2   | 2   | 1   | 1   | 1   | 1   | 1   | 1   |
| 117.5° | 0  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 120°   | 0  | 0  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 122.5° | 0  | 0  | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 125°   | 0  | 0  | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 127.5° | 0  | 0  | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 130°   | 0  | 0  | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 132.5° | 0  | 0  | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 135°   | 0  | 0  | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 137.5° | 0  | 0  | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 140°   | 0  | 1  | 1   | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   |
| 142.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 145°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 147.5° | 1  | 1  | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 150°   | 1  | 1  | 1   | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   |
| 152.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 155°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 157.5° | 1  | 1  | 1   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 160°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 162.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 165°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 167.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 170°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 172.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 175°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 177.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 180°   | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |

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**CANDELA DISTRIBUTION (continued):**

|        | 90°  | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 0°     | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 | 1310 |
| 2.5°   | 1310 | 1309 | 1308 | 1309 | 1308 | 1308 | 1307 | 1307 | 1306 | 1306 | 1305 |
| 5°     | 1310 | 1309 | 1308 | 1309 | 1307 | 1308 | 1308 | 1307 | 1306 | 1305 | 1304 |
| 7.5°   | 1309 | 1309 | 1307 | 1308 | 1306 | 1306 | 1305 | 1305 | 1304 | 1304 | 1303 |
| 10°    | 1307 | 1306 | 1306 | 1306 | 1304 | 1304 | 1303 | 1302 | 1302 | 1301 | 1300 |
| 12.5°  | 1305 | 1304 | 1303 | 1303 | 1302 | 1301 | 1300 | 1300 | 1299 | 1298 | 1297 |
| 15°    | 1302 | 1301 | 1301 | 1301 | 1300 | 1300 | 1299 | 1298 | 1296 | 1295 | 1294 |
| 17.5°  | 1301 | 1300 | 1301 | 1301 | 1300 | 1301 | 1299 | 1297 | 1295 | 1294 | 1293 |
| 20°    | 1300 | 1300 | 1300 | 1299 | 1298 | 1297 | 1296 | 1295 | 1294 | 1293 | 1292 |
| 22.5°  | 1295 | 1294 | 1292 | 1286 | 1279 | 1274 | 1273 | 1275 | 1275 | 1275 | 1272 |
| 25°    | 1286 | 1283 | 1275 | 1264 | 1252 | 1244 | 1239 | 1239 | 1238 | 1236 | 1235 |
| 27.5°  | 1275 | 1269 | 1255 | 1241 | 1224 | 1214 | 1202 | 1195 | 1192 | 1191 | 1189 |
| 30°    | 1260 | 1251 | 1233 | 1215 | 1194 | 1180 | 1161 | 1149 | 1142 | 1139 | 1137 |
| 32.5°  | 1242 | 1233 | 1212 | 1190 | 1165 | 1145 | 1121 | 1102 | 1089 | 1083 | 1080 |
| 35°    | 1230 | 1217 | 1193 | 1167 | 1142 | 1113 | 1084 | 1058 | 1038 | 1031 | 1027 |
| 37.5°  | 1225 | 1213 | 1187 | 1161 | 1133 | 1098 | 1064 | 1027 | 1000 | 988  | 984  |
| 40°    | 1228 | 1213 | 1184 | 1156 | 1123 | 1084 | 1039 | 993  | 958  | 941  | 937  |
| 42.5°  | 1221 | 1204 | 1170 | 1140 | 1099 | 1055 | 1000 | 947  | 900  | 886  | 880  |
| 45°    | 1209 | 1188 | 1151 | 1113 | 1070 | 1016 | 959  | 891  | 835  | 818  | 813  |
| 47.5°  | 1197 | 1168 | 1124 | 1089 | 1037 | 974  | 907  | 831  | 761  | 744  | 741  |
| 50°    | 1179 | 1152 | 1105 | 1064 | 1011 | 938  | 862  | 767  | 688  | 659  | 651  |
| 52.5°  | 1171 | 1136 | 1091 | 1059 | 995  | 912  | 816  | 714  | 600  | 564  | 556  |
| 55°    | 1179 | 1135 | 1087 | 1056 | 982  | 879  | 761  | 631  | 499  | 461  | 450  |
| 57.5°  | 1165 | 1127 | 1079 | 1044 | 948  | 811  | 681  | 514  | 377  | 328  | 324  |
| 60°    | 1147 | 1093 | 1048 | 1016 | 877  | 683  | 530  | 366  | 227  | 185  | 177  |
| 62.5°  | 1140 | 1084 | 1032 | 993  | 782  | 502  | 323  | 185  | 94   | 66   | 60   |
| 65°    | 1118 | 1068 | 1031 | 976  | 683  | 310  | 139  | 55   | 4    | 3    | 3    |
| 67.5°  | 1076 | 1025 | 1000 | 968  | 673  | 296  | 126  | 50   | 2    | 0    | 0    |
| 70°    | 1004 | 964  | 947  | 930  | 644  | 274  | 115  | 45   | 1    | 0    | 0    |
| 72.5°  | 909  | 882  | 879  | 877  | 602  | 253  | 103  | 40   | 1    | 0    | 0    |
| 75°    | 814  | 781  | 786  | 798  | 550  | 224  | 89   | 35   | 1    | 0    | 0    |
| 77.5°  | 694  | 670  | 682  | 702  | 482  | 190  | 73   | 28   | 1    | 0    | 0    |
| 80°    | 546  | 530  | 557  | 575  | 394  | 151  | 55   | 20   | 0    | 0    | 0    |
| 82.5°  | 388  | 379  | 404  | 427  | 293  | 107  | 38   | 13   | 0    | 0    | 0    |
| 85°    | 209  | 204  | 228  | 253  | 176  | 61   | 19   | 6    | 0    | 0    | 0    |
| 87.5°  | 52   | 48   | 49   | 59   | 43   | 13   | 3    | 1    | 0    | 0    | 0    |
| 90°    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 92.5°  | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 95°    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 97.5°  | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 100°   | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 102.5° | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 105°   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 107.5° | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 110°   | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |



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 CATALOG NUMBER: TT-D3-740-24VDC-MQ-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 115°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 117.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 120°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 122.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 125°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 127.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 130°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 132.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 135°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 137.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 140°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 142.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 147.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 150°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 152.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 155°   | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 157.5° | 1   | 1   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 160°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 162.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 165°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 167.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 170°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 172.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 175°   | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 177.5° | 1   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 180°   | 1   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

(END OF REPORT)