

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: P652165

Luminaire Tested: **GALN-SA1B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4104.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

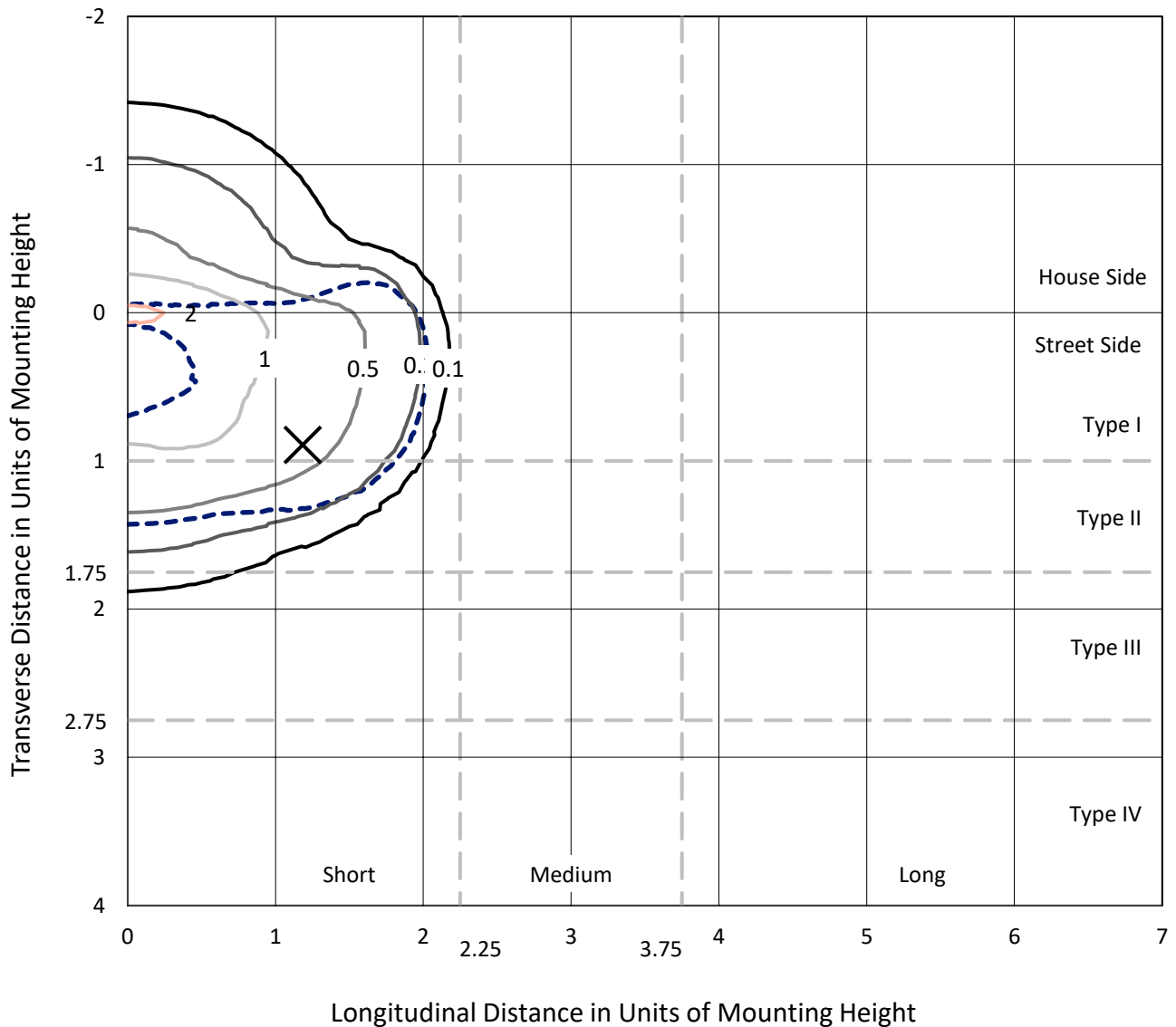
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

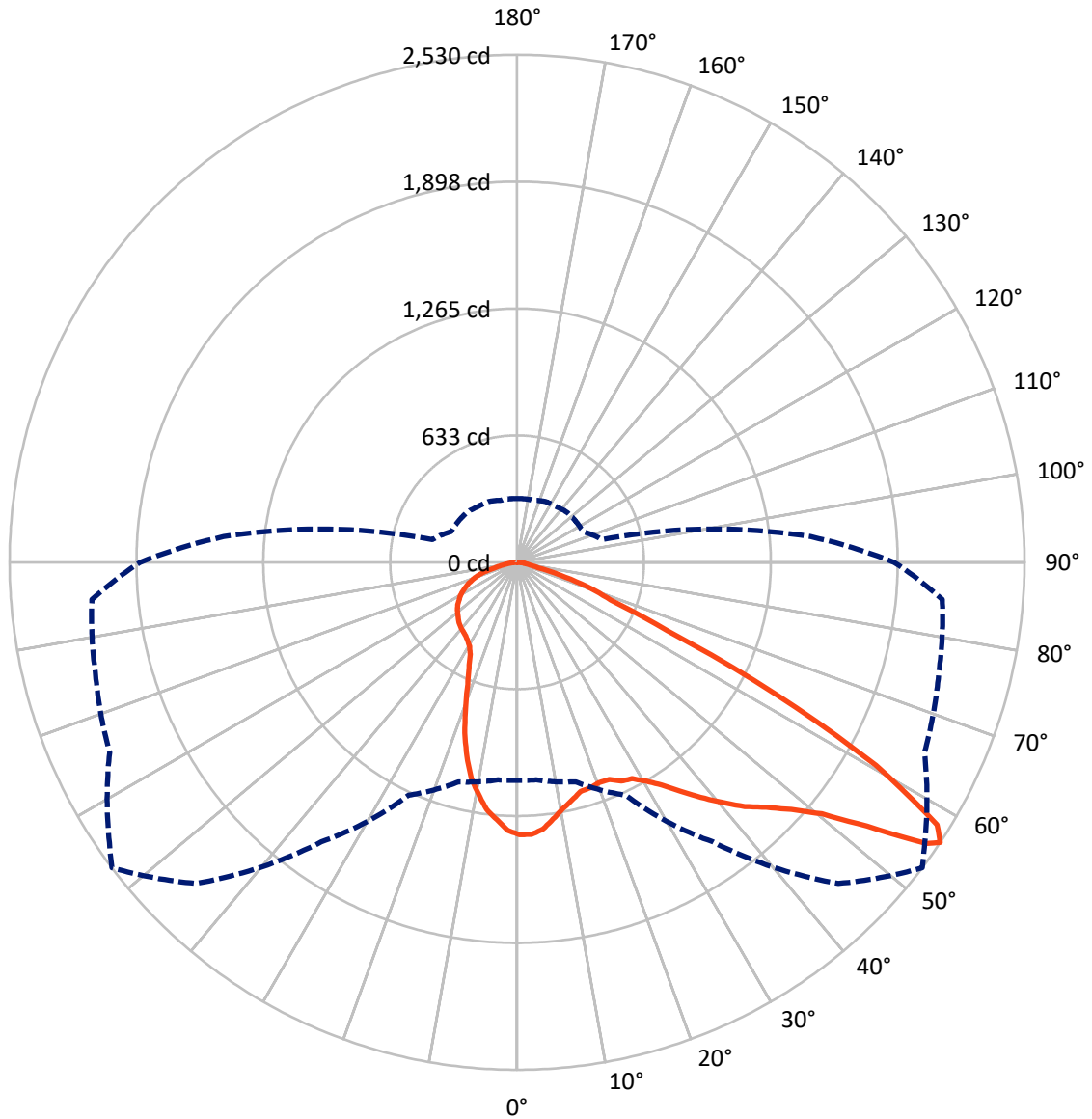
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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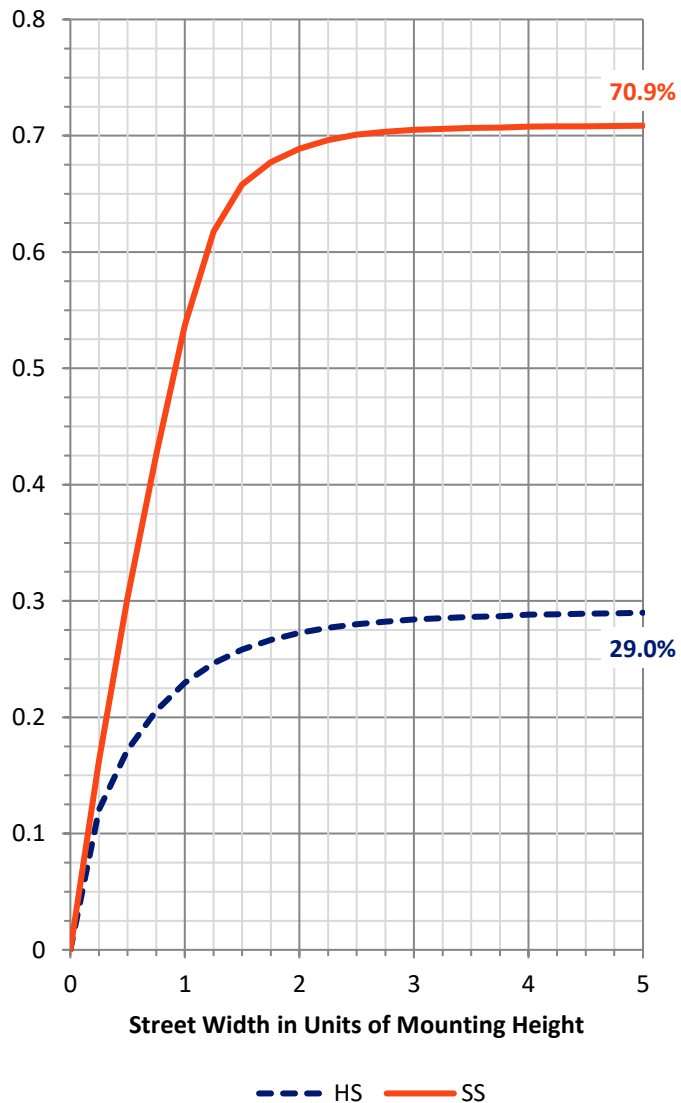
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1197.7	0.0	1197.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	2906.4	0.0	2906.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	4104.1	0.0	4104.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	2.9
10°-20°	300.2	7.3
20°-30°	442.7	10.8
30°-40°	632.5	15.4
40°-50°	870.6	21.2
50°-60°	1028.8	25.1
60°-70°	548.3	13.4
70°-80°	139.1	3.4
80°-90°	21.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4104.1	100.0
0°-180°	4104.1	100.0

**Coefficient of Utilization**



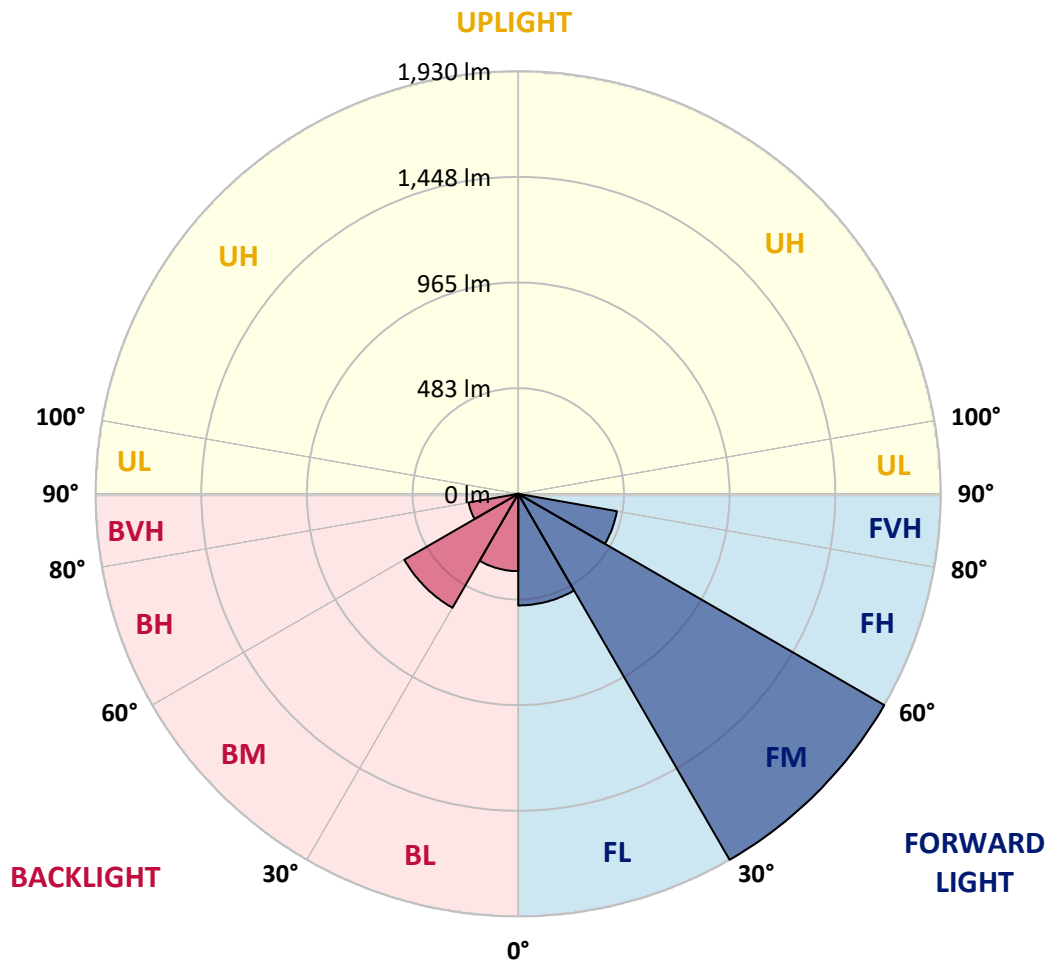
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.9	12.4			
FM (30°-60°)	1930.5	47.0			
FH (60°-80°)	457.4	11.1			G0/660
FVH (80°-90°)	8.7	0.2			G0/10
BL (0°-30°)	353.2	8.6	B1/500		
BM (30°-60°)	601.4	14.7	B1/1000		
BH (60°-80°)	230.0	5.6	B1/500		G1/500
BVH (80°-90°)	13.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8
2.5°	1341.0	1329.4	1336.2	1333.6	1355.2	1361.5	1358.3	1361.0	1373.1	1367.3	1355.2
5°	1253.0	1269.3	1272.5	1280.4	1293.0	1317.8	1337.3	1342.5	1348.3	1375.2	1372.5
7.5°	1173.0	1184.0	1178.2	1201.5	1228.8	1268.8	1292.5	1296.7	1349.9	1364.6	1375.7
10°	1122.5	1111.4	1137.7	1144.0	1175.1	1220.9	1249.3	1266.7	1315.2	1373.6	1380.4
12.5°	1075.6	1071.9	1087.7	1105.6	1140.4	1187.7	1216.7	1223.6	1298.3	1359.9	1392.0
15°	1040.8	1036.6	1052.4	1065.6	1106.2	1148.2	1185.1	1204.6	1279.8	1352.0	1382.0
17.5°	1013.5	1013.0	1021.9	1045.6	1087.2	1122.5	1181.9	1183.0	1270.4	1364.1	1390.4
20°	1011.9	1011.4	1013.0	1039.3	1077.2	1120.4	1171.9	1181.4	1270.4	1355.7	1390.9
22.5°	1025.1	1016.6	1026.1	1042.9	1070.3	1124.0	1175.6	1196.7	1300.9	1397.2	1414.6
25°	1046.1	1048.2	1053.5	1059.2	1075.1	1132.5	1208.3	1225.7	1336.8	1433.1	1447.3
27.5°	1084.6	1083.5	1085.6	1088.8	1102.5	1140.4	1221.5	1266.2	1411.5	1496.8	1482.6
30°	1140.9	1137.2	1145.6	1156.7	1144.0	1165.6	1265.1	1298.8	1481.0	1561.0	1522.0
32.5°	1191.9	1205.7	1221.5	1226.2	1210.9	1215.1	1323.1	1357.3	1538.9	1640.0	1570.5
35°	1255.6	1266.7	1287.7	1302.5	1299.8	1287.2	1402.0	1447.3	1622.6	1697.9	1621.5
37.5°	1317.8	1331.0	1365.7	1409.3	1385.1	1379.4	1486.2	1523.6	1648.4	1728.9	1659.0
40°	1417.8	1417.3	1477.3	1499.9	1521.5	1511.5	1573.7	1586.3	1662.1	1722.1	1660.0
42.5°	1535.2	1527.8	1588.9	1624.2	1652.1	1653.2	1664.8	1660.6	1668.4	1687.4	1648.9
45°	1646.8	1662.7	1724.2	1787.4	1815.3	1818.5	1741.6	1733.7	1679.5	1677.4	1627.8
47.5°	1783.2	1786.9	1837.4	1920.6	1985.3	1963.2	1841.1	1823.7	1727.9	1744.2	1663.2
50°	1791.1	1818.5	1863.7	1961.6	2160.7	2154.9	1970.1	1937.4	1805.8	1839.0	1761.6
52.5°	1625.7	1619.4	1673.2	1833.2	2147.5	2345.5	2183.8	2105.9	1973.2	1948.0	1921.1
55°	1238.8	1253.5	1300.9	1462.6	1864.8	2348.1	2475.0	2411.3	2152.3	2109.1	2078.0
56°	1086.7	1088.8	1133.5	1280.9	1701.6	2264.4	2530.2	2478.7	2241.3	2175.4	2128.1
57.5°	900.8	888.7	911.9	992.4	1436.3	2087.5	2469.7	2520.2	2345.5	2247.0	2181.2
60°	709.1	706.5	697.0	711.8	907.7	1572.6	2055.9	2169.6	2335.0	2179.6	2089.0
62.5°	579.1	566.0	584.9	605.9	630.8	975.6	1444.7	1511.5	1853.7	1740.0	1569.5
65°	449.1	442.8	466.5	534.9	549.7	619.6	822.9	874.5	1094.6	1075.1	946.6
67.5°	309.1	310.1	330.6	434.9	509.6	503.3	503.8	530.7	571.2	424.4	369.6
70°	195.9	195.4	206.4	280.1	410.2	414.4	393.3	385.3	365.4	221.1	234.3
72.5°	125.8	122.1	127.9	154.7	212.2	245.3	252.7	257.4	211.7	173.8	188.5
75°	71.1	67.4	65.3	72.2	83.7	96.9	106.4	109.5	122.7	131.6	139.5
77.5°	21.6	19.5	23.7	31.6	41.6	55.8	68.0	70.1	82.7	93.2	101.1
80°	9.5	10.5	14.7	21.0	29.5	39.5	47.9	51.0	59.5	67.4	69.5
82.5°	5.8	6.3	10.0	14.2	20.5	27.9	34.2	35.2	43.7	50.0	51.6
85°	2.1	2.6	5.3	8.4	13.2	17.9	17.9	19.5	17.9	17.9	19.5
87.5°	0.0	0.0	0.5	1.1	1.1	1.6	2.1	2.1	2.6	3.2	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8	1357.8
2.5°	1361.5	1358.8	1354.6	1339.4	1337.8	1333.1	1306.7	1302.5	1306.7	1294.0	1295.1
5°	1358.8	1366.7	1335.2	1319.9	1291.4	1270.9	1247.2	1235.1	1213.6	1199.9	1215.1
7.5°	1370.4	1367.3	1327.8	1294.6	1252.0	1199.9	1158.2	1134.6	1096.7	1086.2	1094.1
10°	1366.2	1349.4	1303.0	1259.3	1178.8	1133.0	1065.6	1000.3	964.5	946.1	943.4
12.5°	1360.4	1355.7	1278.3	1203.0	1118.3	1021.9	927.1	865.6	807.1	781.8	785.5
15°	1367.3	1327.3	1232.0	1136.7	1024.0	897.7	795.5	716.0	675.5	659.2	659.2
17.5°	1364.1	1313.6	1209.9	1062.4	919.8	770.3	658.1	610.2	593.3	593.3	598.1
20°	1365.7	1322.6	1165.1	988.2	796.6	648.7	567.0	549.7	557.0	559.7	562.3
22.5°	1374.6	1293.0	1121.4	906.6	682.3	554.9	514.9	515.4	528.6	542.8	540.2
25°	1385.7	1281.4	1068.2	825.5	594.9	509.1	496.4	494.9	504.9	512.3	513.3
27.5°	1376.2	1261.4	1014.0	724.4	523.4	478.5	475.9	477.0	480.1	494.9	490.1
30°	1407.2	1267.2	946.1	639.7	483.8	468.6	465.4	463.8	468.6	472.8	469.1
32.5°	1445.7	1246.7	895.6	558.1	464.3	461.2	454.9	452.8	455.4	451.2	453.3
35°	1462.6	1243.0	829.7	499.6	449.1	446.5	442.8	442.3	442.8	439.1	435.9
37.5°	1472.0	1260.4	754.5	472.8	439.6	442.3	433.8	432.8	423.3	425.4	427.0
40°	1488.3	1233.6	693.4	447.0	433.8	428.6	421.2	419.6	413.3	409.6	413.3
42.5°	1464.7	1225.7	633.4	435.9	425.4	419.6	414.4	405.4	403.3	400.1	398.0
45°	1445.7	1180.3	579.6	422.3	415.4	412.3	402.3	392.7	384.8	388.0	383.2
47.5°	1459.9	1164.5	526.5	410.7	401.7	398.0	388.0	380.6	372.7	369.0	368.0
50°	1516.8	1194.1	481.7	402.3	390.1	388.0	374.8	366.4	359.0	356.4	357.5
52.5°	1652.6	1274.6	451.2	384.8	379.0	369.6	362.2	351.7	346.9	338.5	343.8
55°	1824.8	1405.7	443.3	368.5	365.4	356.9	346.9	339.1	330.1	323.3	321.7
56°	1880.1	1468.4	437.0	362.2	356.9	352.2	339.1	334.3	320.1	318.5	317.5
57.5°	1924.8	1523.6	438.0	350.1	344.8	340.6	332.7	321.2	311.7	305.9	308.5
60°	1823.7	1426.3	418.1	331.7	330.6	322.7	311.7	306.4	294.9	288.0	286.4
62.5°	1355.7	968.2	339.1	308.0	307.5	299.1	286.4	280.6	278.5	269.0	269.0
65°	780.8	607.0	293.3	288.5	284.3	275.8	263.2	258.5	253.2	250.1	247.4
67.5°	333.3	314.9	266.4	265.8	261.1	250.6	238.0	230.6	223.8	217.4	220.6
70°	241.6	245.3	240.6	238.0	232.2	219.0	208.0	199.0	188.5	184.3	187.5
72.5°	191.7	199.6	206.4	206.9	200.1	184.8	172.7	160.5	149.0	143.2	145.8
75°	145.3	150.5	157.4	159.0	149.0	138.4	126.9	114.2	105.3	98.5	99.5
77.5°	104.8	103.7	110.0	109.0	104.3	96.9	86.4	74.8	64.8	58.4	59.0
80°	71.6	73.2	76.9	76.4	70.6	65.9	57.9	48.4	41.0	35.8	34.7
82.5°	50.0	52.6	55.8	53.2	48.4	43.7	37.9	31.0	25.2	21.0	20.0
85°	17.9	20.5	23.7	25.2	26.8	25.8	21.6	17.4	12.6	10.5	10.0
87.5°	3.7	4.2	4.7	4.7	4.7	4.2	3.7	3.7	3.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)