

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: P647217

Luminaire Tested: **GALN-SA1D-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6117.6 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

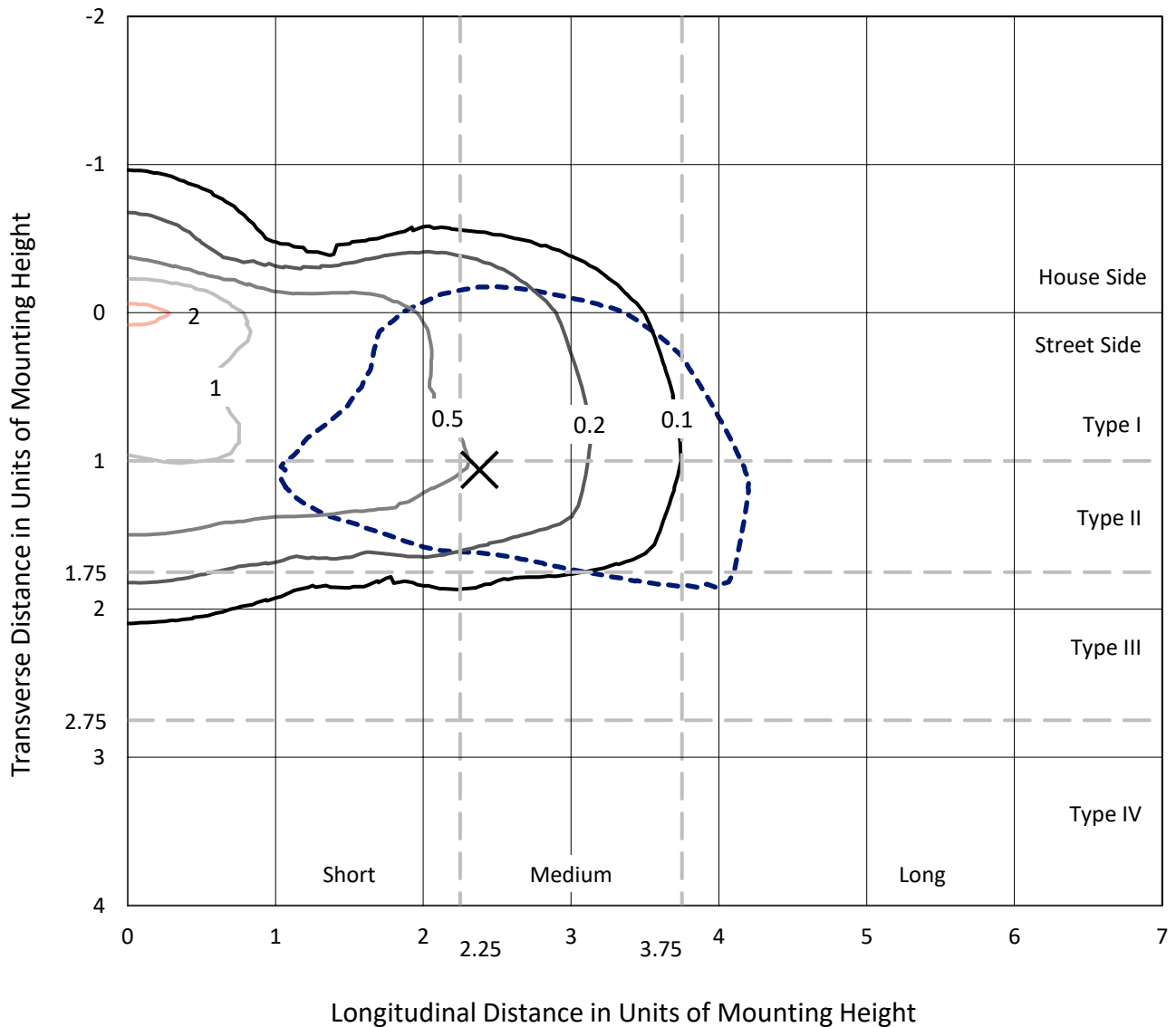
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647217  
 CATALOG NUMBER: GALN-SA1D-835-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

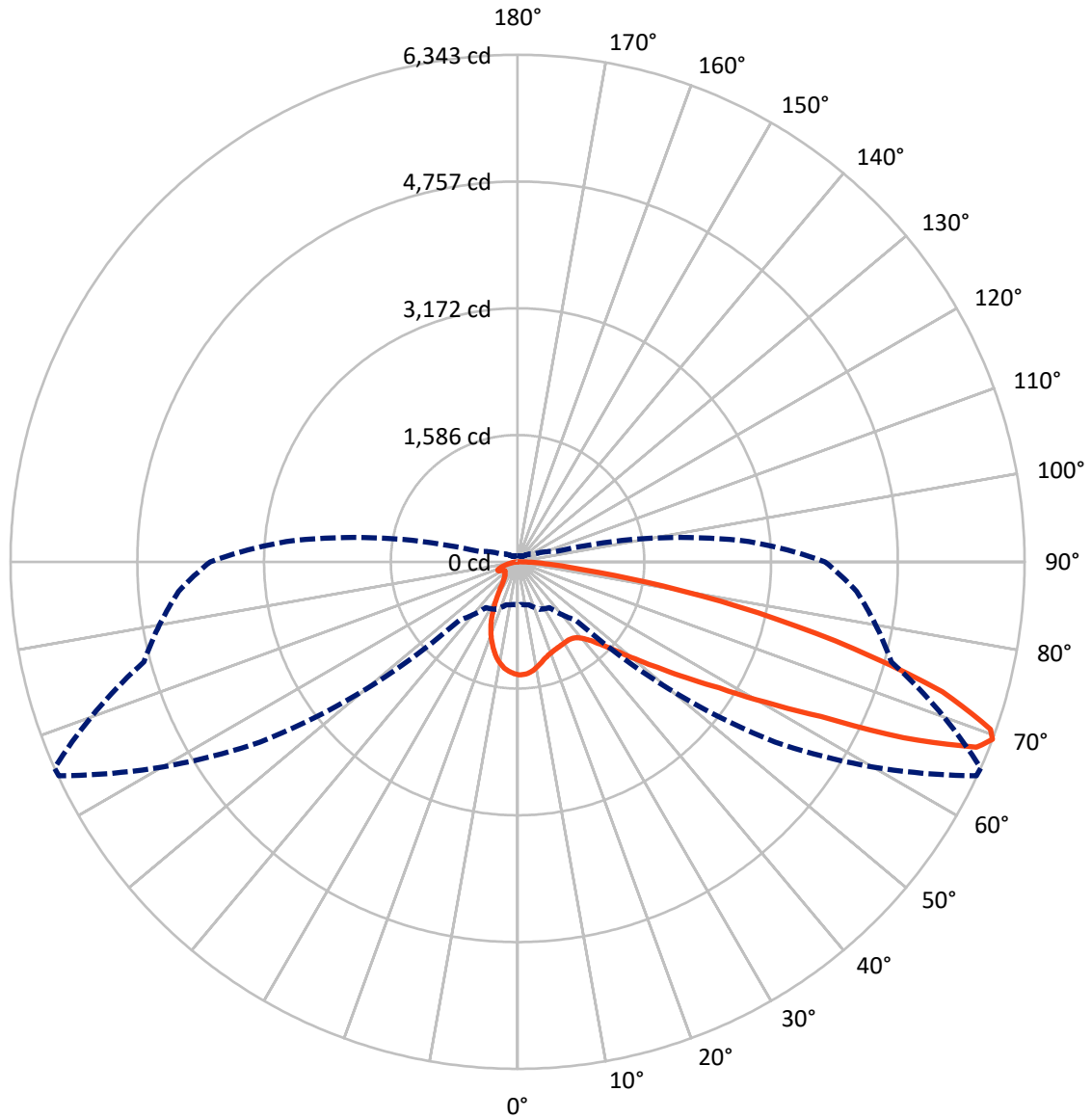
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P647217  
CATALOG NUMBER: GALN-SA1D-835-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P647217  
 CATALOG NUMBER: GALN-SA1D-835-U-SL2

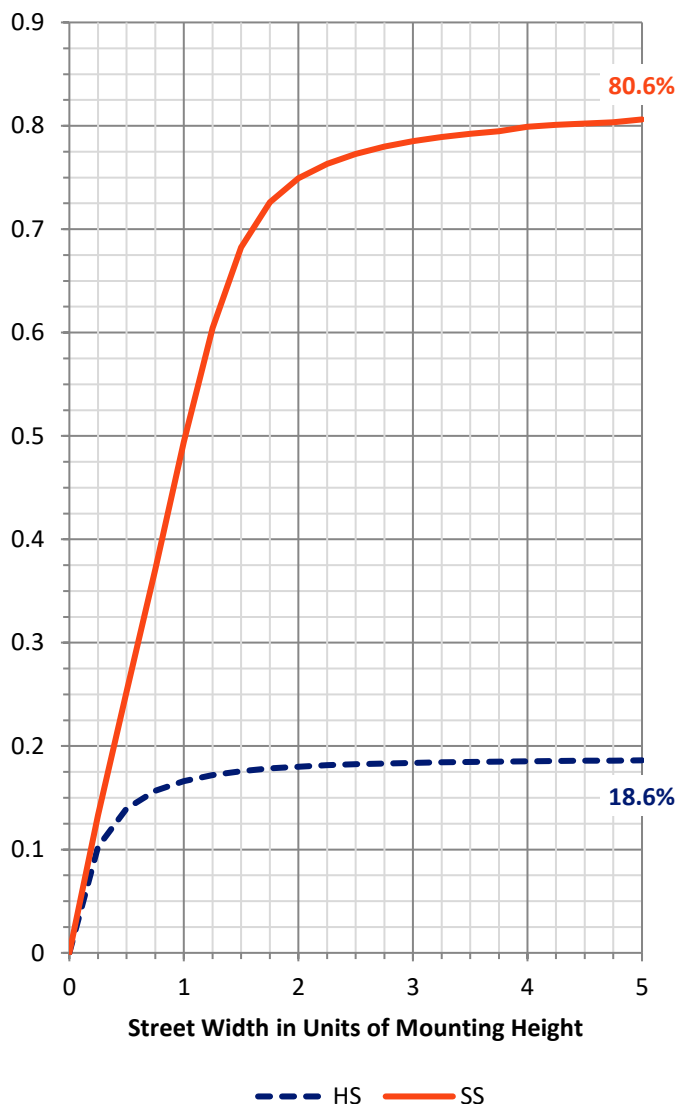
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1150.5	0.0	1150.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4967.1	0.0	4967.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6117.6	0.0	6117.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	2.0
10°-20°	291.0	4.8
20°-30°	396.1	6.5
30°-40°	532.3	8.7
40°-50°	794.8	13.0
50°-60°	1264.3	20.7
60°-70°	1555.1	25.4
70°-80°	1011.8	16.5
80°-90°	149.4	2.4
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°	6117.6	100.0
0°-180°	6117.6	100.0

**Coefficient of Utilization**

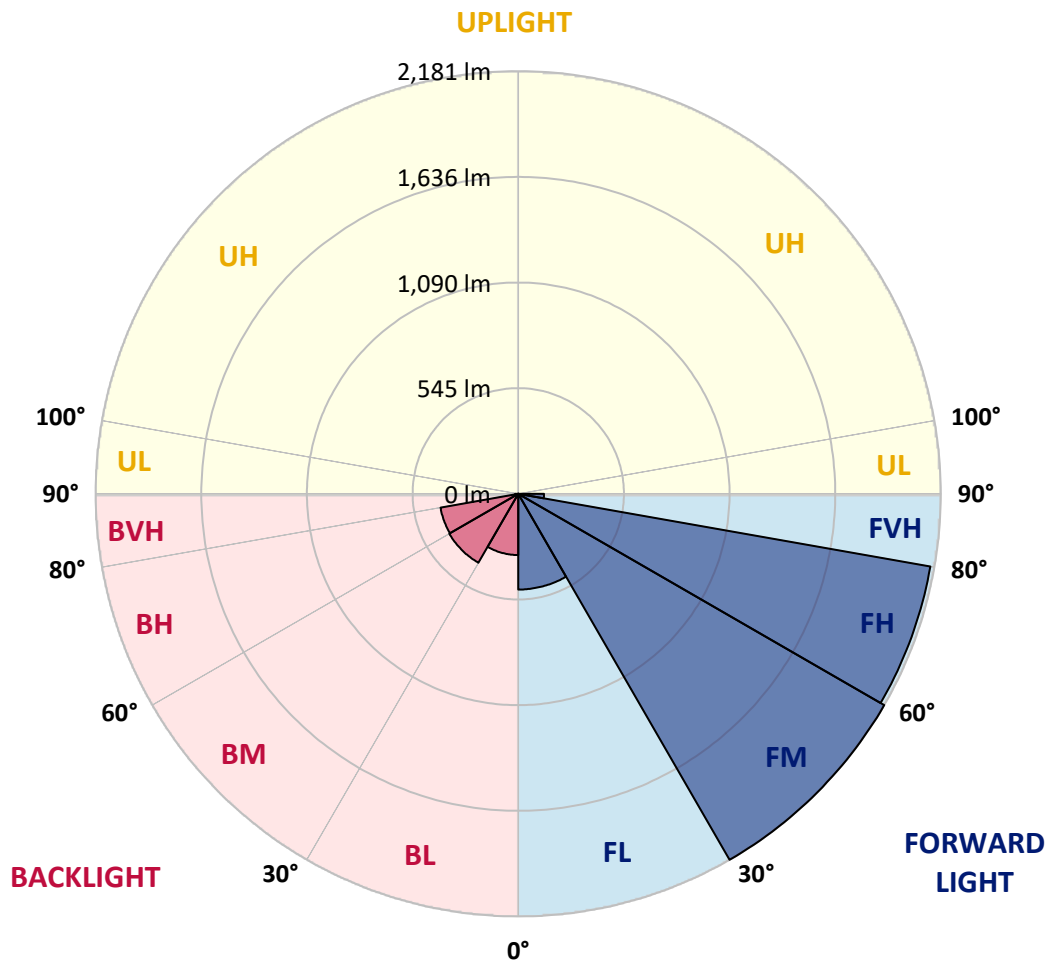


REPORT NUMBER: P647217  
 CATALOG NUMBER: GALN-SA1D-835-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.0	8.1			
FM (30°-60°)	2180.7	35.6			
FH (60°-80°)	2159.5	35.3			G2/5000
FVH (80°-90°)	132.8	2.2			G2/225
BL (0°-30°)	315.8	5.2	B1/500		
BM (30°-60°)	410.8	6.7	B1/1000		
BH (60°-80°)	407.3	6.7	B1/500		G1/500
BVH (80°-90°)	16.6	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-G2**  
 Type III Medium





REPORT NUMBER: P647217  
 CATALOG NUMBER: GALN-SA1D-835-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1363.3	1368.7	1374.8	1381.5	1394.4	1401.6	1406.7	1412.4	1413.1	1416.1	1413.7
5°	1262.7	1269.1	1278.2	1291.1	1310.4	1340.6	1371.7	1397.1	1400.2	1414.4	1418.5
7.5°	1178.6	1182.3	1189.8	1210.4	1237.9	1271.4	1316.8	1368.4	1375.8	1409.6	1421.5
10°	1110.2	1113.9	1122.7	1144.0	1171.1	1213.2	1263.0	1330.7	1336.8	1395.1	1422.2
12.5°	1059.0	1062.5	1071.9	1092.9	1124.1	1163.4	1218.3	1290.1	1298.9	1375.8	1415.7
15°	1020.1	1026.5	1034.3	1051.6	1084.5	1122.4	1175.6	1252.8	1259.9	1355.5	1411.4
17.5°	1003.5	1006.5	1011.9	1027.8	1051.9	1089.2	1142.7	1223.7	1232.1	1341.2	1410.3
20°	1004.1	1007.2	1008.2	1017.0	1034.3	1066.4	1119.3	1200.7	1210.8	1328.7	1412.1
22.5°	1027.2	1027.5	1023.8	1020.7	1027.5	1054.3	1102.7	1183.3	1195.2	1323.3	1413.4
25°	1062.8	1068.9	1063.5	1049.2	1036.7	1049.5	1096.3	1173.9	1185.1	1315.5	1411.7
27.5°	1120.3	1121.3	1116.9	1097.7	1065.1	1055.6	1093.6	1166.7	1176.2	1309.7	1403.2
30°	1197.6	1194.5	1190.5	1169.1	1118.0	1079.1	1099.3	1160.3	1170.1	1301.3	1393.0
32.5°	1275.8	1285.4	1281.6	1256.6	1190.2	1124.4	1118.0	1159.6	1167.8	1294.8	1381.9
35°	1358.8	1363.3	1380.9	1368.0	1299.9	1197.9	1152.9	1170.1	1176.6	1295.2	1374.1
37.5°	1423.9	1435.8	1477.1	1488.2	1424.2	1295.2	1209.4	1199.9	1202.7	1311.8	1377.1
40°	1502.5	1522.9	1576.0	1621.7	1579.7	1421.5	1305.7	1255.1	1258.6	1351.8	1397.1
42.5°	1602.1	1616.3	1687.8	1749.8	1743.0	1588.6	1422.2	1345.7	1347.3	1431.3	1453.0
45°	1718.6	1739.0	1819.2	1912.4	1928.4	1777.6	1590.6	1482.5	1481.5	1555.0	1557.4
47.5°	1867.7	1880.2	1959.8	2061.5	2125.8	2015.1	1794.9	1679.0	1668.2	1735.2	1715.9
50°	2004.9	2024.5	2084.9	2196.0	2356.2	2293.3	2063.5	1933.8	1908.3	1971.0	1938.5
52.5°	2062.5	2083.2	2134.0	2271.9	2553.8	2653.0	2404.7	2237.7	2195.3	2243.4	2231.6
55°	1962.6	1989.3	2036.7	2204.5	2640.4	3068.0	2864.8	2589.0	2558.1	2537.5	2540.8
57.5°	1693.9	1719.3	1783.4	1968.3	2536.8	3369.2	3521.6	3040.5	2974.5	2879.3	2895.5
60°	1289.4	1305.3	1338.5	1543.4	2229.5	3447.5	4267.7	3611.4	3569.4	3219.8	3231.3
62.5°	915.7	933.6	956.7	1059.0	1632.2	3226.9	4851.7	4408.5	4258.5	3572.4	3561.2
65°	743.6	731.4	759.2	807.0	957.8	2500.9	4983.2	5515.1	5308.3	4036.9	3881.7
67.5°	611.5	598.6	626.1	711.1	728.3	1451.7	4509.5	6233.2	6191.9	4542.0	4207.3
69°	541.4	534.6	558.7	655.5	699.2	1030.9	3928.5	6333.2	6343.0	4839.8	4257.5
70°	487.8	490.5	514.0	627.4	686.1	850.0	3357.7	6195.3	6278.6	4988.6	4203.3
72.5°	359.1	364.9	397.4	519.7	673.5	721.3	1998.1	5411.4	5558.8	4997.3	3845.2
75°	251.0	248.3	277.1	391.3	636.3	714.8	1173.6	4185.0	4352.0	4319.5	3231.0
77.5°	164.3	168.7	191.8	276.5	535.3	709.4	765.0	2969.1	3077.5	2888.8	1911.1
80°	115.9	115.5	128.4	188.7	397.1	681.6	626.4	1871.4	1844.0	1135.3	566.8
82.5°	66.4	71.2	86.1	132.8	265.6	600.0	576.3	895.0	817.1	323.5	191.4
85°	37.0	38.6	51.1	80.3	155.2	451.9	503.1	407.2	384.1	135.1	82.3
87.5°	11.8	12.8	21.4	40.6	70.5	213.4	284.9	188.0	173.4	48.8	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647217  
 CATALOG NUMBER: GALN-SA1D-835-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1414.7	1418.8	1408.0	1397.5	1388.0	1374.8	1362.9	1353.1	1346.3	1345.3	1341.9
5°	1419.5	1419.8	1399.1	1371.4	1344.3	1314.5	1283.7	1261.6	1241.0	1229.5	1223.7
7.5°	1422.9	1419.8	1382.5	1337.5	1285.4	1231.1	1176.9	1133.5	1100.0	1086.8	1091.9
10°	1421.5	1412.1	1357.5	1285.4	1209.4	1128.5	1050.6	989.6	933.6	904.9	905.5
12.5°	1414.1	1398.5	1320.2	1226.7	1115.3	1006.9	887.6	805.3	740.6	702.3	690.4
15°	1407.6	1380.5	1276.5	1147.1	1008.6	853.7	708.4	606.7	552.6	522.4	522.0
17.5°	1400.9	1363.3	1228.8	1062.8	885.9	686.7	534.2	456.6	431.3	434.3	429.2
20°	1393.7	1342.9	1179.0	968.9	736.5	512.2	400.1	368.6	375.7	389.6	391.7
22.5°	1385.6	1321.2	1125.4	865.6	579.3	385.5	324.6	319.8	338.1	359.8	362.8
25°	1373.1	1294.1	1058.0	757.6	446.9	310.7	284.2	287.6	305.6	323.8	325.9
27.5°	1355.5	1260.6	989.9	622.6	335.8	266.6	259.9	264.3	273.0	284.2	287.0
30°	1331.7	1222.7	911.6	506.1	269.0	244.6	241.9	244.3	249.3	254.1	255.4
32.5°	1308.0	1186.1	832.7	387.6	239.8	230.0	227.3	227.3	227.3	228.0	228.3
35°	1286.0	1151.5	748.0	301.8	224.6	218.5	214.8	210.7	210.1	207.7	207.7
37.5°	1273.8	1120.0	657.9	252.8	213.4	209.1	204.0	197.2	193.5	193.8	193.1
40°	1276.2	1099.3	575.9	225.0	204.3	199.5	191.8	183.9	181.6	181.6	180.9
42.5°	1303.0	1092.6	497.4	210.4	195.5	190.0	180.2	173.1	171.8	171.4	172.1
45°	1364.6	1109.2	426.9	200.9	188.0	179.9	170.1	163.6	162.2	162.2	161.9
47.5°	1484.9	1163.1	376.4	194.8	182.6	172.1	161.9	155.5	153.2	152.5	152.5
50°	1671.9	1279.9	338.8	189.4	175.9	165.0	154.5	147.0	143.3	143.0	142.7
52.5°	1931.7	1462.2	324.2	185.3	168.3	157.5	146.0	138.9	134.1	133.1	132.5
55°	2235.6	1716.6	344.2	182.3	160.6	149.1	137.2	129.7	125.4	123.3	123.0
57.5°	2587.6	2022.2	420.1	178.2	153.5	139.9	128.4	121.0	116.2	113.8	113.1
60°	2903.7	2336.2	552.6	175.9	147.4	130.1	118.2	111.4	107.0	104.7	104.4
62.5°	3250.9	2635.7	710.7	182.3	144.7	120.6	108.8	102.7	98.9	96.5	96.5
65°	3621.9	2935.5	815.4	204.0	148.7	113.1	98.6	93.5	90.1	88.4	88.1
67.5°	3871.9	3039.2	671.8	226.3	158.9	105.0	88.8	84.7	82.7	81.0	81.0
69°	3844.8	2908.1	495.6	232.1	161.9	100.9	83.3	80.3	77.6	76.9	76.3
70°	3759.1	2758.7	415.4	228.3	159.6	97.2	79.9	76.3	73.8	73.2	72.8
72.5°	3348.2	2392.5	309.3	198.5	135.9	84.3	70.8	67.4	65.4	64.4	64.4
75°	2781.8	1955.5	241.6	157.9	106.4	71.2	60.6	57.9	56.2	55.6	55.2
77.5°	1559.1	1091.9	173.4	123.6	80.6	57.6	50.8	48.5	46.7	46.0	46.0
80°	434.3	312.0	101.9	81.7	54.9	43.7	40.3	38.6	36.3	34.5	35.5
82.5°	163.6	135.1	58.3	49.1	34.9	29.1	28.1	26.8	25.8	23.4	23.4
85°	79.6	65.7	37.3	26.1	19.3	15.3	14.6	13.9	13.2	11.5	11.8
87.5°	27.4	29.1	16.3	9.5	5.8	3.8	3.1	1.7	1.7	1.7	1.7
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)