

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: P647766

Luminaire Tested: **GALN-SA2A-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5893.6 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

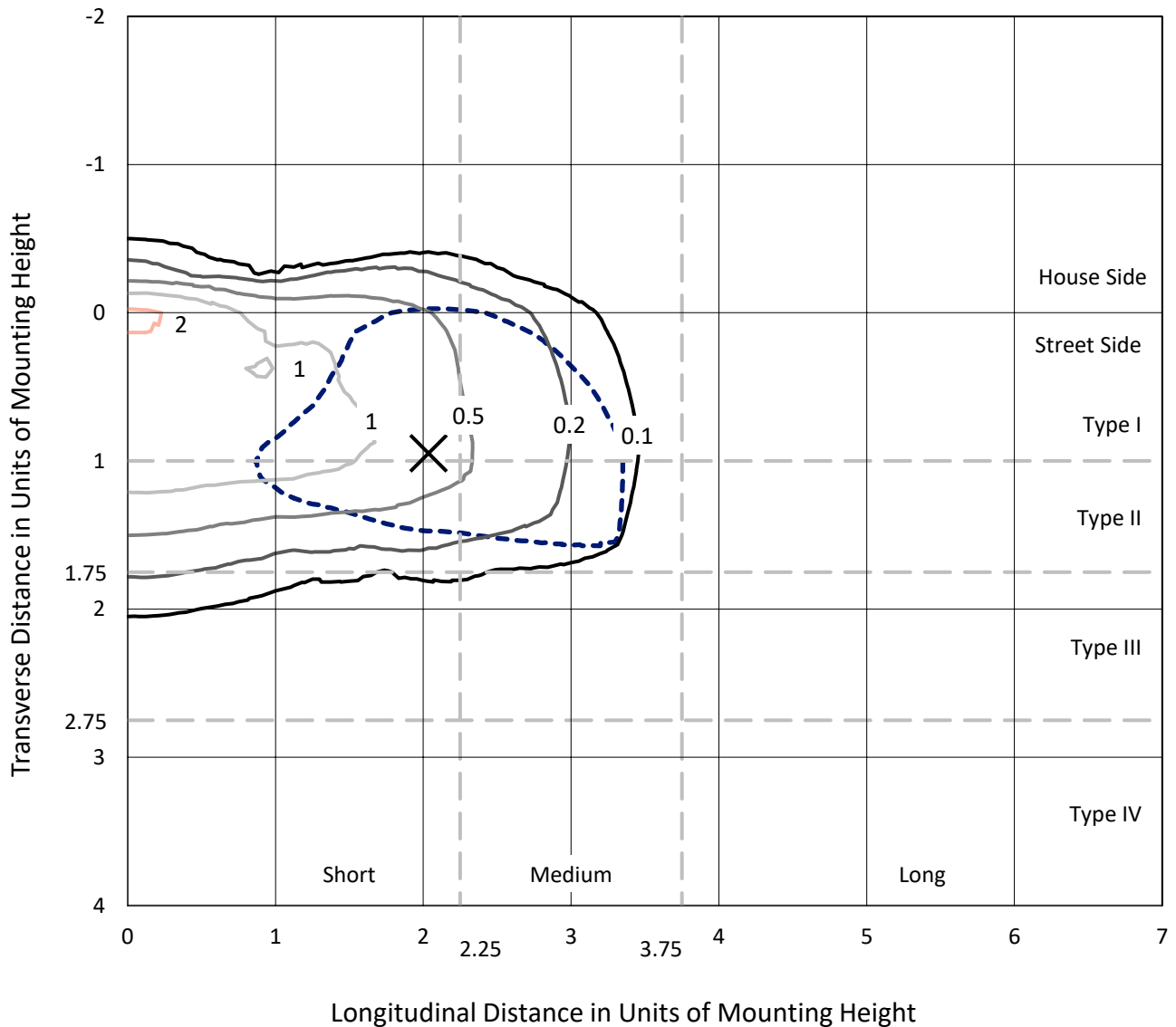
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

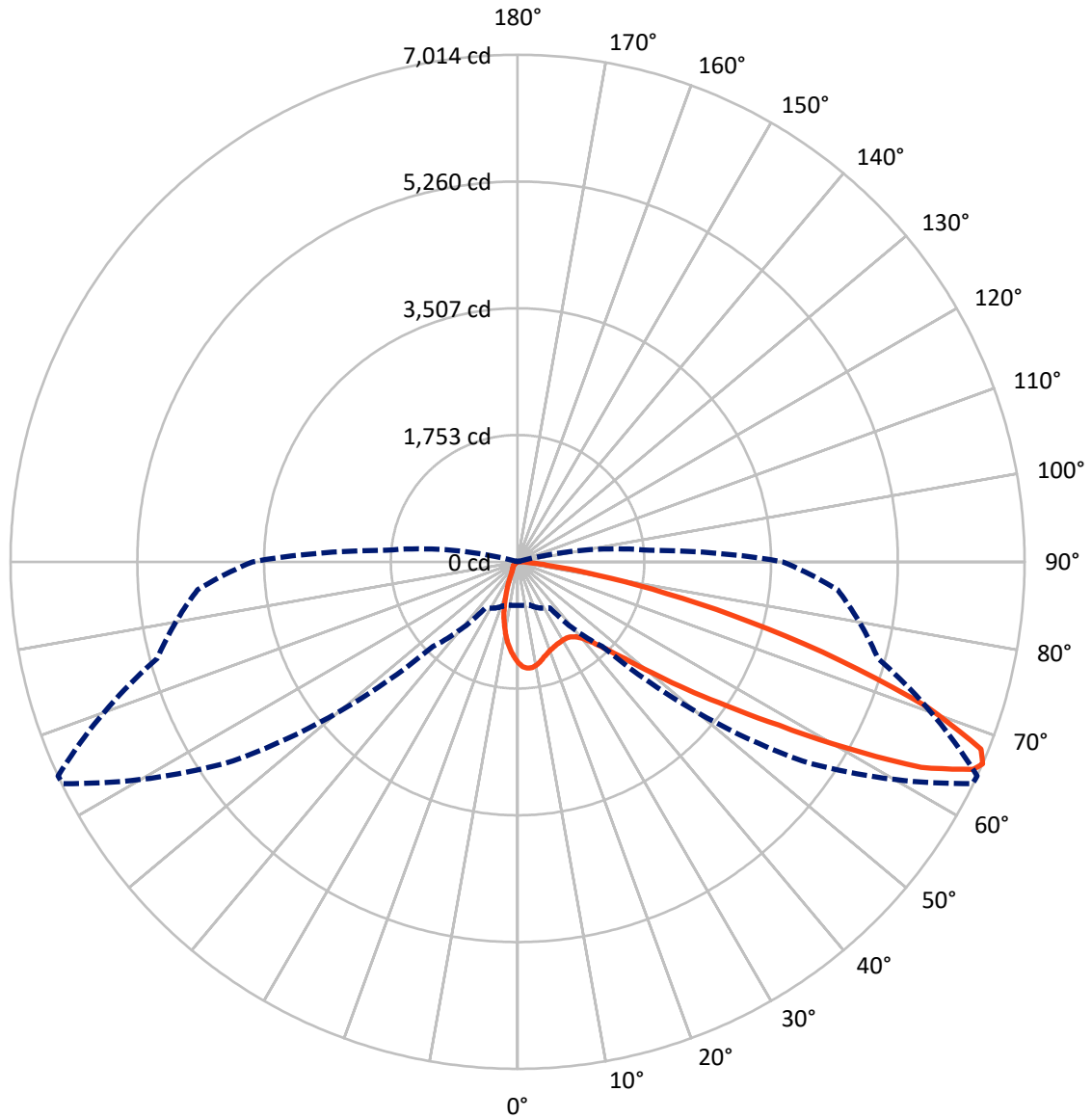
× Max cd  
 - - - 1/2 Max cd



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 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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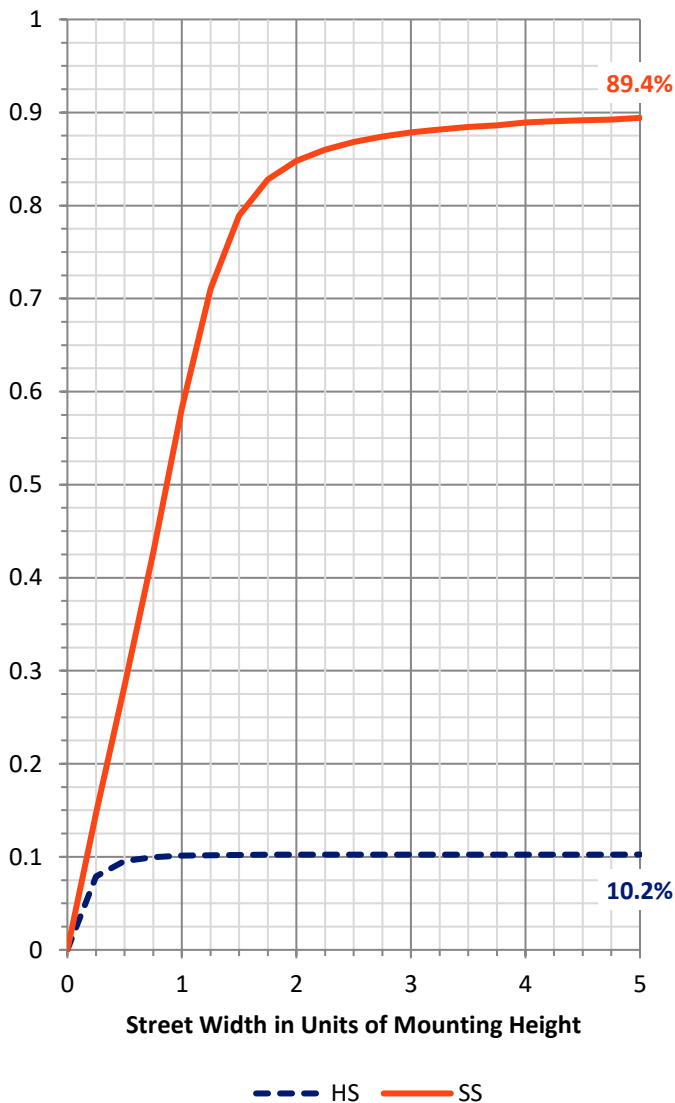
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	609.5	0.0	609.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	5284.1	0.0	5284.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	5893.6	0.0	5893.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	1.9
10°-20°	249.0	4.2
20°-30°	356.8	6.1
30°-40°	521.1	8.8
40°-50°	873.8	14.8
50°-60°	1458.2	24.7
60°-70°	1547.8	26.3
70°-80°	701.0	11.9
80°-90°	71.7	1.2
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°	5893.6	100.0
0°-180°	5893.6	100.0



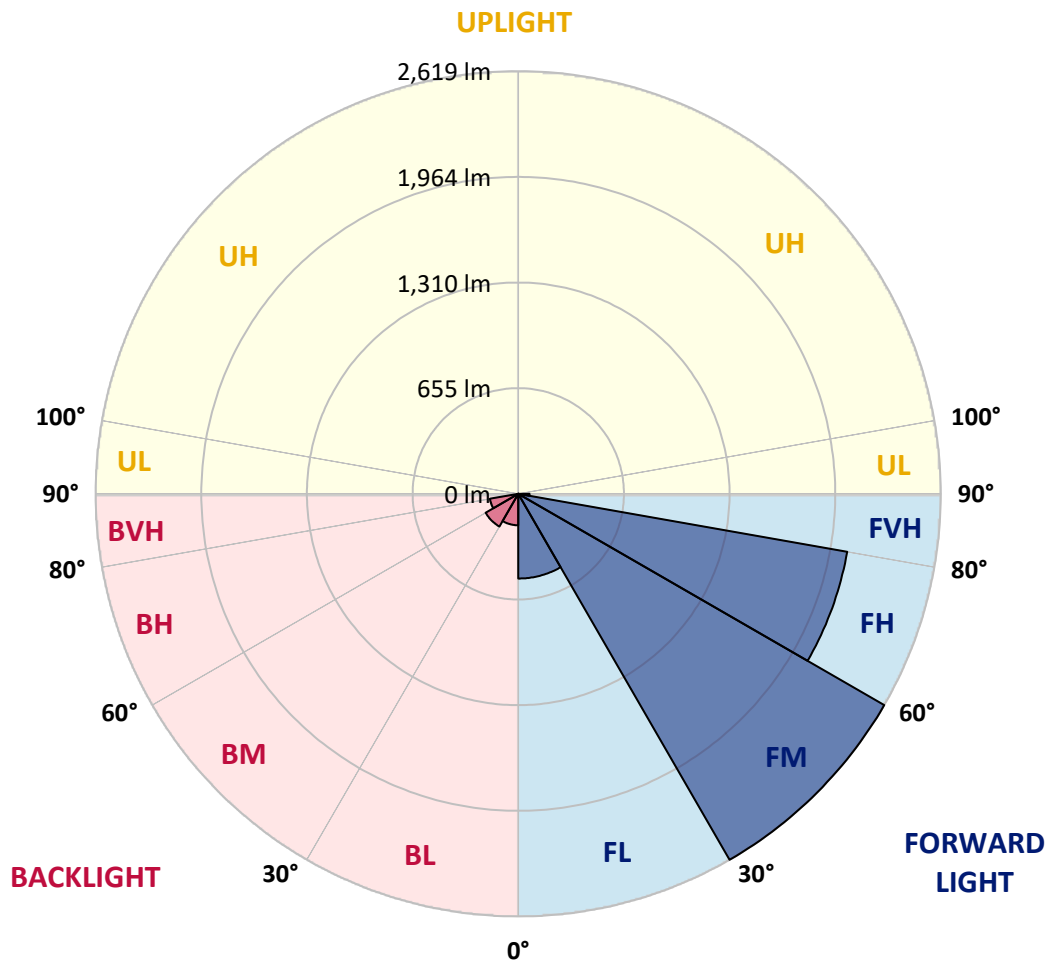
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.1	8.9			
FM (30°-60°)	2619.3	44.4			
FH (60°-80°)	2070.3	35.1			G2/5000
FVH (80°-90°)	69.4	1.2			G1/100
BL (0°-30°)	195.0	3.3	B1/500		
BM (30°-60°)	233.7	4.0	B1/1000		
BH (60°-80°)	178.5	3.0	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1472.8	1474.4	1476.4	1479.2	1481.2	1475.3	1466.9	1457.3	1455.3	1435.0	1410.3
5°	1394.1	1396.4	1413.9	1423.5	1444.9	1464.4	1476.8	1478.4	1477.6	1458.5	1419.1
7.5°	1281.8	1288.5	1305.7	1322.3	1362.6	1399.6	1443.4	1474.0	1476.0	1470.9	1421.8
10°	1190.6	1195.0	1203.7	1236.7	1270.2	1326.7	1388.0	1445.7	1450.5	1471.3	1419.5
12.5°	1119.4	1125.7	1136.4	1162.0	1202.1	1255.5	1325.1	1402.7	1412.7	1463.7	1412.7
15°	1069.6	1072.8	1083.5	1108.6	1147.6	1197.0	1267.4	1357.8	1366.6	1453.7	1411.5
17.5°	1046.1	1049.7	1057.3	1077.2	1109.4	1155.2	1224.1	1321.5	1332.7	1447.4	1415.9
20°	1052.5	1055.6	1056.0	1066.4	1088.3	1126.9	1192.2	1287.7	1302.1	1443.4	1423.1
22.5°	1088.7	1089.1	1084.3	1079.5	1087.1	1115.0	1172.7	1266.3	1281.0	1442.6	1431.4
25°	1142.9	1144.0	1136.1	1119.4	1104.3	1118.6	1168.3	1252.3	1265.4	1440.6	1436.6
27.5°	1217.6	1217.3	1214.9	1187.0	1144.0	1134.5	1171.9	1244.7	1255.9	1435.0	1438.6
30°	1322.3	1319.2	1314.0	1282.6	1216.9	1173.1	1187.0	1240.0	1250.3	1427.0	1433.4
32.5°	1425.5	1437.4	1436.6	1406.7	1324.8	1242.0	1218.5	1246.3	1253.9	1421.8	1425.8
35°	1545.6	1545.3	1575.9	1564.7	1468.8	1329.9	1272.2	1267.4	1273.4	1425.5	1422.2
37.5°	1657.1	1667.5	1715.2	1726.8	1639.2	1454.1	1348.2	1312.8	1314.8	1449.7	1431.0
40°	1796.0	1815.9	1887.2	1925.9	1848.6	1638.4	1460.5	1396.0	1396.4	1509.5	1464.1
42.5°	1975.2	2006.7	2073.1	2137.6	2096.2	1856.6	1628.9	1527.8	1527.0	1614.5	1539.7
45°	2192.9	2214.8	2290.4	2392.8	2366.5	2161.1	1874.1	1732.0	1721.7	1786.9	1673.8
47.5°	2380.8	2410.7	2487.5	2604.1	2723.5	2532.8	2167.0	2012.6	2005.8	2061.2	1903.9
50°	2462.8	2489.1	2569.9	2733.5	3022.9	3020.9	2603.3	2422.2	2410.7	2440.5	2259.8
52.5°	2372.9	2397.5	2479.1	2682.9	3163.8	3615.6	3235.4	2936.1	2922.2	2883.9	2684.9
55°	2064.8	2085.1	2205.6	2439.7	3109.7	4012.1	4106.4	3571.0	3516.9	3368.4	3166.2
57.5°	1644.0	1633.7	1708.5	1980.4	2792.0	4145.0	5000.5	4362.0	4265.2	3787.1	3573.4
60°	1139.3	1171.1	1201.4	1380.5	2099.4	3914.5	5556.6	5356.3	5229.0	4199.2	3963.5
62.5°	837.5	858.6	878.5	961.3	1320.0	3125.6	5654.9	6377.8	6264.7	4636.6	4335.7
65°	662.3	664.0	671.9	753.6	869.8	2032.5	5182.4	6953.7	6924.7	5057.8	4486.6
66°	603.5	603.8	616.2	703.8	780.6	1655.2	4803.9	6997.5	7013.5	5158.9	4442.4
67.5°	527.4	525.9	543.7	632.5	711.0	1193.4	4126.3	6820.0	6914.4	5236.5	4283.6
70°	408.8	406.8	428.7	530.6	654.8	796.2	2742.7	5855.9	6008.0	5077.7	3790.0
72.5°	272.2	273.9	311.3	418.7	625.0	701.0	1649.9	4454.7	4669.7	4193.2	2981.5
75°	158.8	161.6	204.2	311.3	542.5	668.4	933.9	3176.6	3313.9	2895.5	1857.4
77.5°	83.2	84.4	114.2	205.4	416.0	620.6	622.2	2029.3	2093.8	1407.1	735.2
80°	44.2	43.0	61.3	123.8	286.2	545.0	504.7	1074.4	1116.9	418.0	185.9
82.5°	16.8	18.3	32.7	81.2	169.2	391.3	434.7	474.9	460.2	91.9	78.0
85°	3.2	4.0	13.9	48.2	85.2	163.6	320.4	232.9	215.7	34.6	44.9
87.5°	0.4	0.8	4.0	11.5	12.4	55.4	94.7	64.5	55.7	12.8	18.7
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°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1398.4	1387.6	1351.8	1316.4	1280.2	1247.6	1225.2	1189.0	1179.8	1166.7	1159.2
5°	1395.6	1370.6	1301.7	1226.4	1156.3	1080.8	1023.0	967.3	937.4	922.3	916.7
7.5°	1387.6	1347.9	1240.4	1122.5	1010.3	897.2	798.9	724.0	675.9	642.8	620.6
10°	1371.7	1316.8	1169.1	1007.1	837.5	688.3	563.7	468.9	395.6	372.6	373.4
12.5°	1355.4	1282.2	1089.5	878.9	668.8	480.4	348.3	273.5	238.4	226.9	224.5
15°	1340.3	1249.1	1011.5	754.7	498.0	311.3	224.5	198.3	188.7	186.7	186.3
17.5°	1332.4	1218.5	928.2	612.6	347.5	211.4	179.9	172.7	170.0	168.0	167.2
20°	1325.5	1191.8	848.7	479.7	237.6	173.1	161.2	154.5	149.7	147.7	146.5
22.5°	1320.8	1164.3	766.2	371.4	181.9	153.6	142.9	134.1	127.4	125.0	123.4
25°	1313.6	1134.1	683.1	271.5	153.2	136.6	124.2	113.8	105.1	100.7	99.9
27.5°	1303.2	1099.9	591.9	201.0	136.9	121.4	106.3	93.6	84.8	80.0	80.4
30°	1286.5	1064.0	500.7	159.7	123.8	105.9	89.6	77.2	68.9	65.3	64.9
32.5°	1266.7	1020.6	417.2	136.9	111.9	91.9	74.9	64.0	57.7	55.0	54.5
35°	1247.9	976.9	332.0	123.0	99.5	79.2	62.9	53.7	48.9	46.6	47.0
37.5°	1237.6	937.8	258.7	111.9	89.6	68.0	54.1	46.2	41.8	39.8	39.4
40°	1244.3	906.0	205.8	101.9	78.5	58.5	46.6	39.8	35.4	32.7	32.7
42.5°	1276.2	892.1	166.0	92.3	68.0	50.6	40.6	34.2	29.4	26.7	27.1
45°	1373.3	906.8	138.9	83.6	58.5	43.8	35.0	28.3	23.9	21.9	21.5
47.5°	1534.5	962.2	120.2	74.5	50.2	37.4	29.4	23.5	19.1	17.5	17.1
50°	1816.3	1076.4	106.3	65.3	42.6	31.9	24.3	18.7	15.1	13.5	13.5
52.5°	2204.1	1325.5	96.3	55.0	35.9	27.1	19.9	15.1	12.0	10.7	10.3
55°	2609.3	1588.2	91.1	46.2	29.8	22.3	15.9	12.0	9.2	8.0	7.6
57.5°	2999.0	1794.5	85.2	37.4	23.9	17.1	12.4	9.2	6.3	5.6	5.2
60°	3372.8	1961.3	72.4	29.8	18.7	12.4	9.2	6.3	4.4	3.6	3.6
62.5°	3707.2	2058.4	56.9	23.9	14.3	8.8	6.0	4.8	3.2	2.4	2.4
65°	3746.2	1932.2	43.0	18.3	10.3	5.6	3.6	3.6	2.4	1.6	1.6
66°	3667.7	1825.1	37.8	16.8	9.2	4.8	3.2	2.8	2.0	1.2	1.2
67.5°	3492.6	1642.4	32.7	14.3	7.6	3.6	2.4	2.4	1.6	0.8	0.8
70°	3017.7	1341.4	25.8	10.7	5.6	2.8	1.6	1.6	1.2	0.8	0.8
72.5°	2300.0	1001.5	21.1	8.0	4.0	2.0	1.2	1.2	1.2	0.8	0.8
75°	1387.2	539.4	16.3	6.0	3.6	1.6	0.8	1.2	1.6	1.2	0.8
77.5°	511.1	183.5	12.8	4.8	2.8	1.6	0.8	0.8	1.6	1.2	1.2
80°	125.4	47.8	9.2	4.0	2.8	1.6	0.8	0.8	1.6	1.6	1.6
82.5°	58.1	20.3	6.3	3.6	2.8	1.6	0.8	0.8	1.2	1.6	1.6
85°	33.4	9.6	5.2	4.0	2.8	1.6	0.8	0.8	1.2	1.6	1.6
87.5°	13.5	4.8	4.8	4.0	3.2	2.0	0.8	0.8	0.8	1.2	1.2
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)