

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: P647893

Luminaire Tested: **GALN-SA4A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8356.2 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

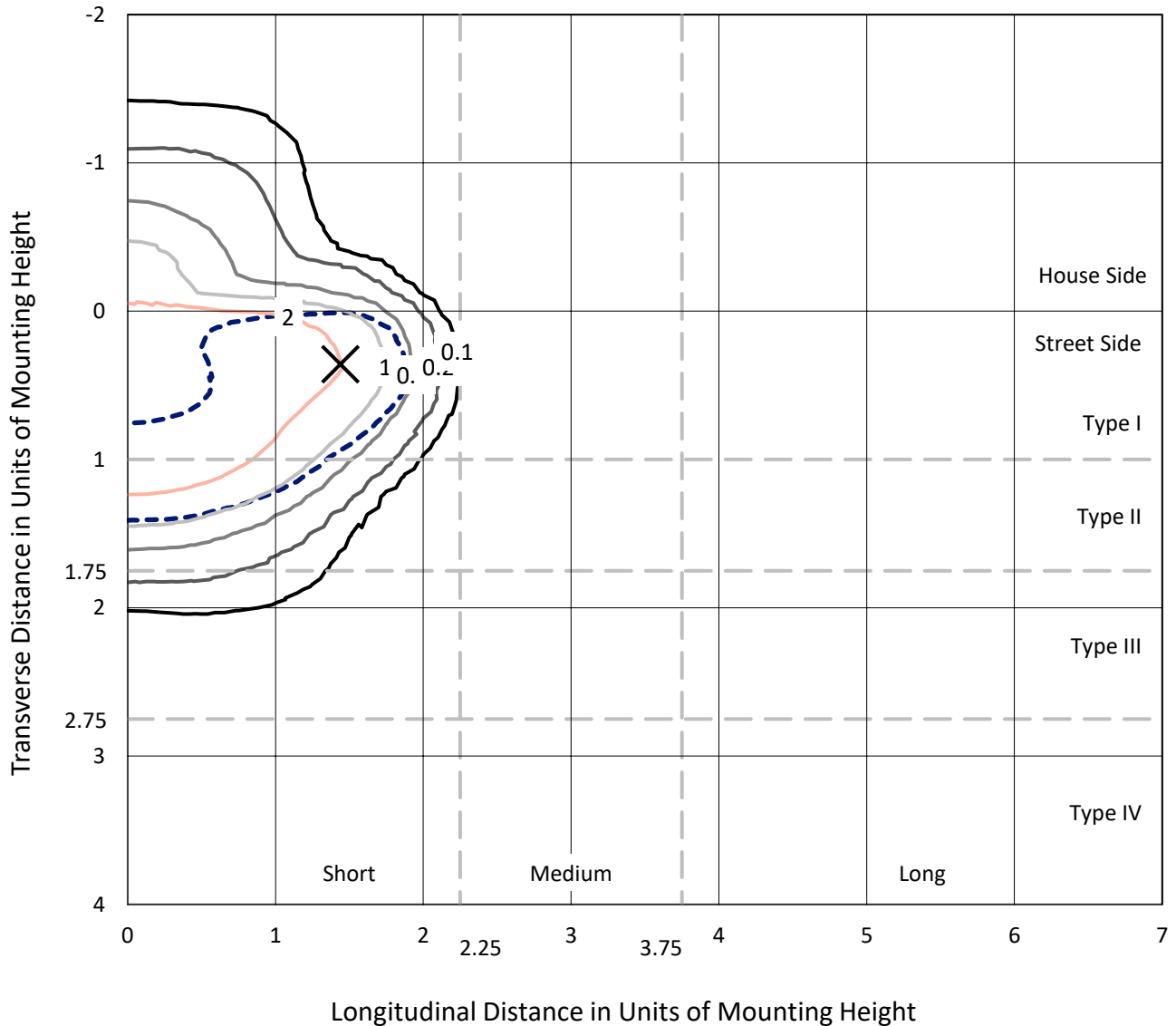
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647893  
 CATALOG NUMBER: GALN-SA4A-835-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

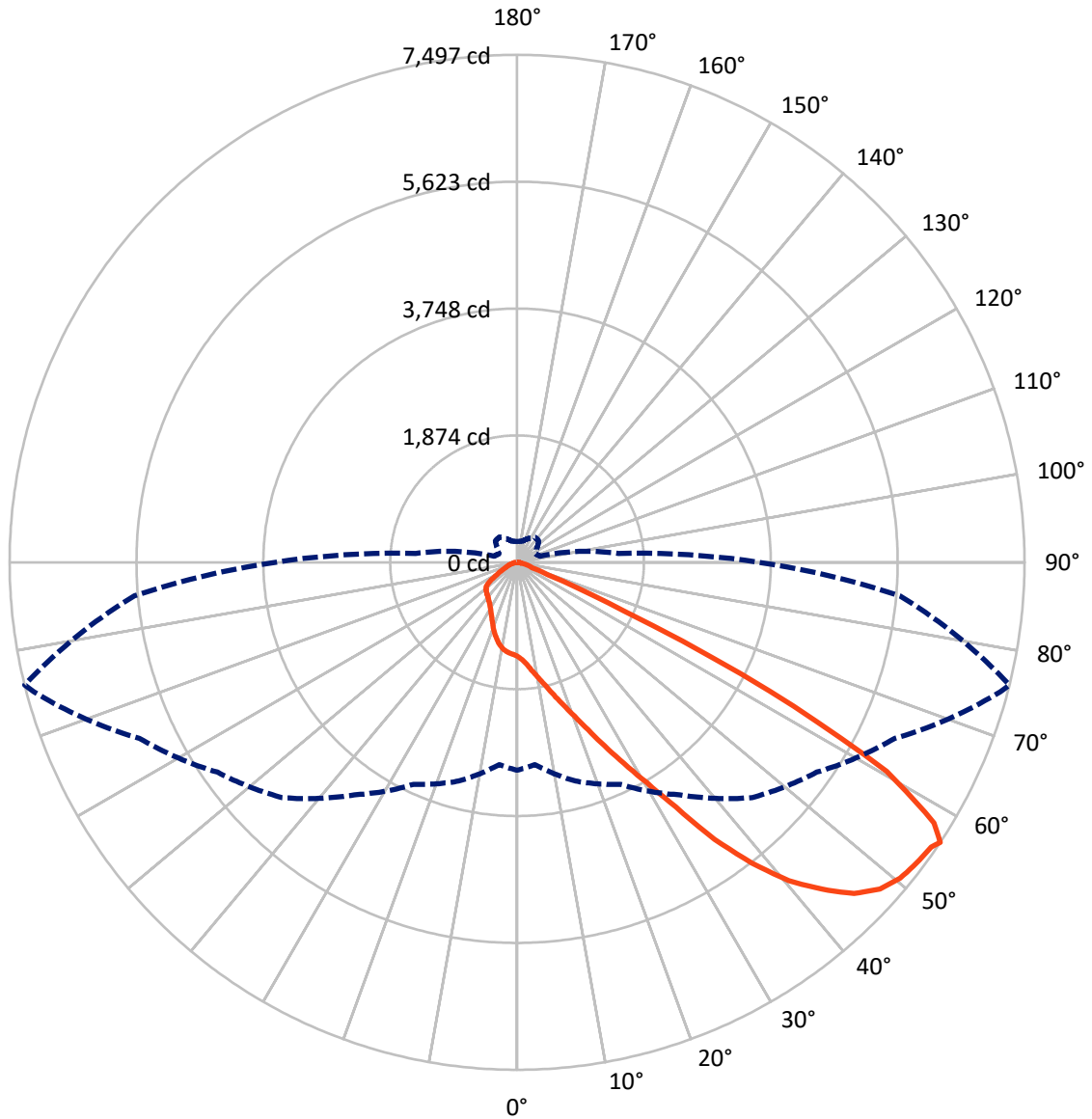
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P647893  
CATALOG NUMBER: GALN-SA4A-835-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647893  
 CATALOG NUMBER: GALN-SA4A-835-U-T2-GRSBK

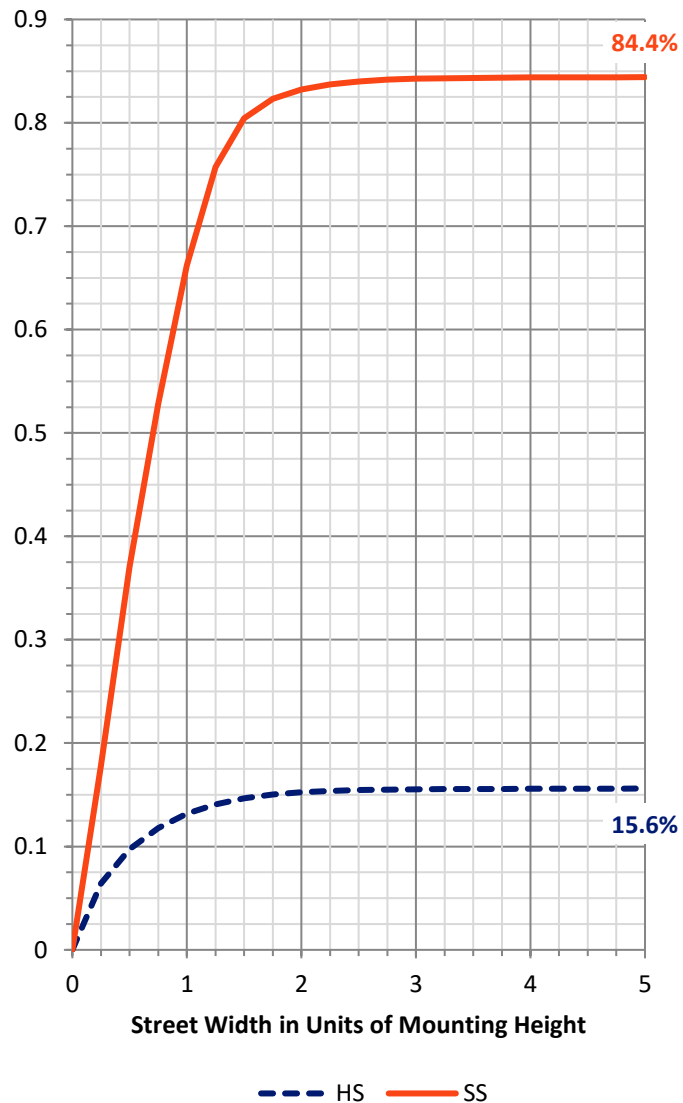
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1312.7	0.0	1312.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7043.5	0.0	7043.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	8356.2	0.0	8356.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	1.7
10°-20°	450.1	5.4
20°-30°	816.2	9.8
30°-40°	1407.6	16.8
40°-50°	2286.7	27.4
50°-60°	2410.2	28.8
60°-70°	736.4	8.8
70°-80°	94.4	1.1
80°-90°	14.4	0.2
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°	8356.2	100.0
0°-180°	8356.2	100.0

**Coefficient of Utilization**

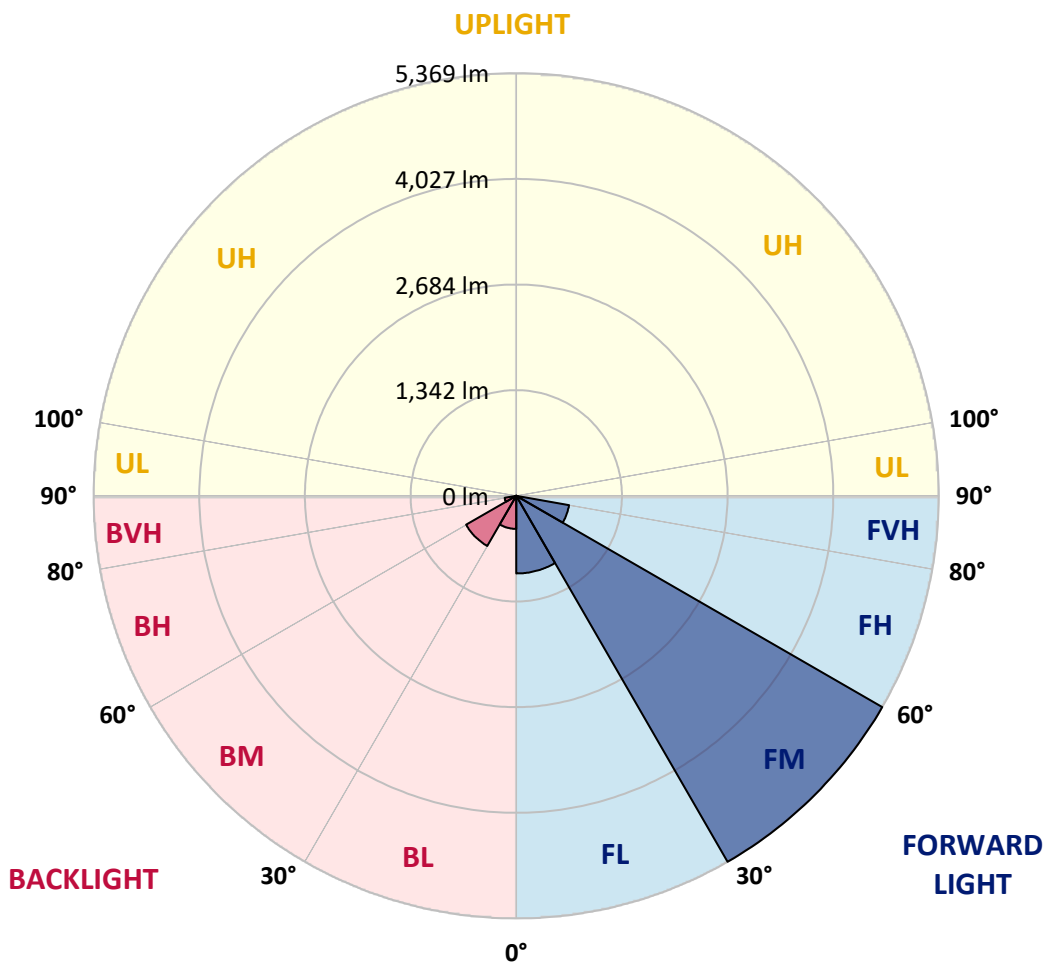


REPORT NUMBER: P647893  
 CATALOG NUMBER: GALN-SA4A-835-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.5	11.8			
FM (30°-60°)	5368.8	64.2			
FH (60°-80°)	681.1	8.2			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	419.9	5.0	B1/500		
BM (30°-60°)	735.7	8.8	B1/1000		
BH (60°-80°)	149.8	1.8	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
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





REPORT NUMBER: P647893

CATALOG NUMBER: GALN-SA4A-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1601.9	1565.0	1566.5	1563.4	1558.8	1541.9	1491.0	1483.3	1449.4	1440.2	1409.4
5°	1794.5	1762.1	1780.6	1752.9	1726.7	1711.2	1628.1	1589.6	1535.7	1515.7	1472.5
7.5°	1914.6	1899.2	1893.1	1894.5	1870.0	1831.4	1794.5	1709.8	1637.3	1621.9	1531.1
10°	1973.2	1963.9	1973.2	1968.5	1979.3	1983.9	1919.2	1868.4	1762.1	1735.9	1594.2
12.5°	1987.0	2005.5	2013.2	2033.2	2059.4	2104.1	2099.5	2030.2	1888.4	1871.4	1691.3
15°	2020.9	2036.3	2028.6	2060.9	2110.2	2185.7	2225.8	2215.0	2062.5	2031.7	1803.7
17.5°	2051.7	2024.0	2050.1	2114.8	2164.1	2279.6	2376.7	2421.3	2251.9	2216.5	1906.9
20°	2093.3	2085.6	2081.0	2113.3	2201.1	2355.1	2547.6	2629.3	2464.5	2427.5	2054.7
22.5°	2219.6	2221.1	2218.1	2170.3	2233.4	2407.5	2697.0	2898.8	2718.7	2687.8	2222.7
25°	2386.0	2365.9	2350.5	2312.0	2304.3	2455.3	2848.0	3228.5	3023.6	3002.0	2404.4
27.5°	2561.5	2561.5	2515.3	2479.9	2430.6	2573.9	2986.7	3548.9	3391.7	3362.5	2563.1
30°	2752.6	2763.3	2757.2	2681.7	2650.8	2703.2	3128.4	3958.6	3813.8	3776.8	2824.9
32.5°	3034.4	3011.3	3037.5	2974.3	2883.5	2929.7	3351.7	4325.2	4362.2	4309.8	3168.4
35°	3407.1	3393.3	3376.4	3273.2	3165.4	3202.3	3667.5	4776.5	5050.7	5024.5	3515.0
37.5°	3741.4	3733.7	3719.9	3649.0	3524.2	3568.9	4026.3	5246.3	5722.2	5636.0	4004.8
40°	4092.6	4134.2	4089.5	4026.3	3912.4	4011.0	4448.4	5525.1	6287.6	6182.8	4379.1
42.5°	4568.6	4536.2	4556.2	4440.7	4379.1	4486.9	4872.0	5803.9	6726.5	6601.8	4776.5
45°	5075.3	5076.9	5022.9	4986.0	4825.8	4942.8	5132.3	5957.9	7076.2	6979.1	5076.9
47.5°	5400.4	5398.8	5457.3	5515.8	5351.0	5235.5	5309.4	6104.3	7256.4	7211.7	5186.2
50°	5349.5	5364.9	5440.4	5659.1	5745.3	5589.8	5475.8	6061.1	7338.0	7333.4	5280.2
52.5°	4653.3	4704.1	4830.4	5146.2	5580.5	5773.1	5649.8	6141.2	7378.1	7385.8	5420.3
55°	3542.7	3570.4	3810.7	4194.3	4674.8	5334.1	5580.5	6204.3	7408.9	7422.8	5589.8
56°	3072.9	2999.0	3345.5	3618.2	4192.7	4913.6	5405.0	6155.1	7390.4	7496.7	5674.5
57.5°	2319.7	2270.4	2550.8	2891.1	3444.1	4205.0	4859.7	5922.5	7265.6	7264.1	5552.8
60°	1410.9	1361.6	1577.3	1777.5	2087.1	2589.2	3283.9	4716.4	6142.7	6272.1	4496.1
62.5°	839.5	870.3	1082.8	1204.5	1304.6	1357.0	1699.0	2803.4	4098.8	4191.2	2789.5
65°	559.1	569.9	730.1	930.4	975.0	776.3	691.6	1135.2	1777.5	1720.5	1150.6
67.5°	345.1	369.7	489.8	699.3	774.8	566.8	328.1	423.6	489.8	489.8	332.7
70°	209.5	221.8	326.5	476.0	531.4	365.0	238.7	238.7	235.7	231.1	198.7
72.5°	100.1	107.8	166.4	244.9	249.5	192.5	184.9	201.8	197.2	195.6	164.8
75°	43.1	46.2	58.6	77.0	87.8	81.7	112.4	144.8	149.4	144.8	118.6
77.5°	13.9	15.4	21.5	27.7	29.3	35.4	47.8	60.1	69.3	64.7	58.6
80°	1.6	3.1	6.2	13.9	21.5	27.7	35.4	40.0	44.6	44.6	41.6
82.5°	1.6	1.6	6.2	12.3	20.0	26.2	33.9	38.5	44.6	46.2	43.1
85°	0.0	1.6	4.6	10.8	16.9	16.9	15.4	15.4	10.8	10.8	10.8
87.5°	0.0	0.0	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
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: P647893

CATALOG NUMBER: GALN-SA4A-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1403.2	1400.2	1358.6	1332.4	1318.5	1290.8	1273.9	1261.5	1252.3	1241.5	1243.0
5°	1421.7	1410.9	1341.6	1293.8	1236.9	1206.1	1179.9	1158.3	1144.4	1141.4	1135.2
7.5°	1474.1	1417.1	1312.3	1226.1	1153.7	1122.9	1099.8	1085.9	1092.1	1078.2	1089.0
10°	1514.1	1429.4	1276.9	1152.2	1079.8	1056.7	1044.4	1055.1	1070.5	1064.3	1056.7
12.5°	1563.4	1441.7	1219.9	1081.3	1013.5	996.6	1018.1	1038.2	1069.0	1081.3	1065.9
15°	1618.9	1455.6	1147.6	999.7	956.5	970.4	1007.3	1042.8	1073.6	1089.0	1098.2
17.5°	1686.7	1451.0	1076.7	935.0	902.6	942.7	987.4	1019.7	1065.9	1089.0	1082.8
20°	1749.8	1435.6	998.1	870.3	871.8	908.7	945.8	998.1	1022.8	1053.6	1042.8
22.5°	1809.8	1407.8	916.5	825.6	825.6	882.6	901.1	935.0	956.5	971.9	970.4
25°	1894.5	1355.5	848.7	782.5	800.9	838.0	853.3	864.1	854.9	867.2	868.7
27.5°	1954.7	1301.6	793.3	744.0	777.8	805.6	800.9	794.8	773.2	756.3	767.1
30°	2019.4	1238.4	745.5	717.8	736.3	760.9	742.4	724.0	690.1	662.3	663.9
32.5°	2111.8	1209.1	703.9	687.0	711.6	714.7	694.7	667.0	633.1	606.9	605.3
35°	2284.2	1190.6	668.5	667.0	671.6	673.1	653.1	619.2	605.3	583.8	591.5
37.5°	2456.8	1181.4	643.9	637.7	636.1	637.7	614.6	582.2	608.4	606.9	610.0
40°	2677.1	1223.0	608.4	600.7	602.3	602.3	573.0	563.8	610.0	614.6	616.1
42.5°	2900.4	1275.4	585.3	560.7	566.8	566.8	551.5	540.7	573.0	542.2	537.5
45°	3094.5	1352.4	560.7	520.6	536.0	543.7	539.1	520.6	500.6	448.3	448.3
47.5°	3157.6	1420.1	531.4	482.1	494.5	528.3	514.4	476.0	440.5	397.4	394.3
50°	3268.6	1494.1	508.3	437.5	463.6	505.2	491.3	452.9	412.8	382.0	383.5
52.5°	3382.5	1578.8	465.2	385.1	417.4	486.7	486.7	443.6	382.0	360.4	357.4
55°	3553.5	1575.7	388.1	315.8	372.8	459.0	466.7	397.4	341.9	325.0	325.0
56°	3578.2	1504.8	349.7	295.7	352.7	451.3	452.9	385.1	326.5	308.0	308.0
57.5°	3393.3	1358.6	306.5	271.1	328.1	437.5	438.9	374.3	314.2	288.1	284.9
60°	2610.8	919.6	255.7	241.8	297.3	394.3	402.0	340.4	275.7	255.7	254.2
62.5°	1474.1	509.8	224.9	218.7	255.7	335.8	358.9	297.3	234.1	223.3	226.4
65°	673.1	280.3	189.5	177.1	206.4	258.8	289.6	244.9	192.5	180.2	180.2
67.5°	246.5	191.0	161.8	140.2	144.8	167.9	187.9	158.6	127.9	109.4	114.0
70°	175.6	160.2	141.7	121.7	112.4	109.4	107.8	89.3	63.2	49.3	52.4
72.5°	141.7	132.5	118.6	103.2	87.8	73.9	63.2	46.2	29.3	20.0	18.5
75°	101.6	97.0	86.3	73.9	61.6	52.4	43.1	29.3	15.4	7.7	7.7
77.5°	52.4	52.4	50.8	46.2	38.5	30.8	24.7	16.9	9.2	3.1	3.1
80°	40.0	43.1	44.6	40.0	35.4	27.7	20.0	12.3	6.2	1.6	1.6
82.5°	38.5	44.6	47.8	41.6	35.4	26.2	20.0	12.3	6.2	1.6	1.6
85°	9.2	9.2	13.9	15.4	20.0	21.5	16.9	10.8	4.6	1.6	1.6
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	0.0
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)