

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: P648653

Luminaire Tested: **GALN-SA9B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39536 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

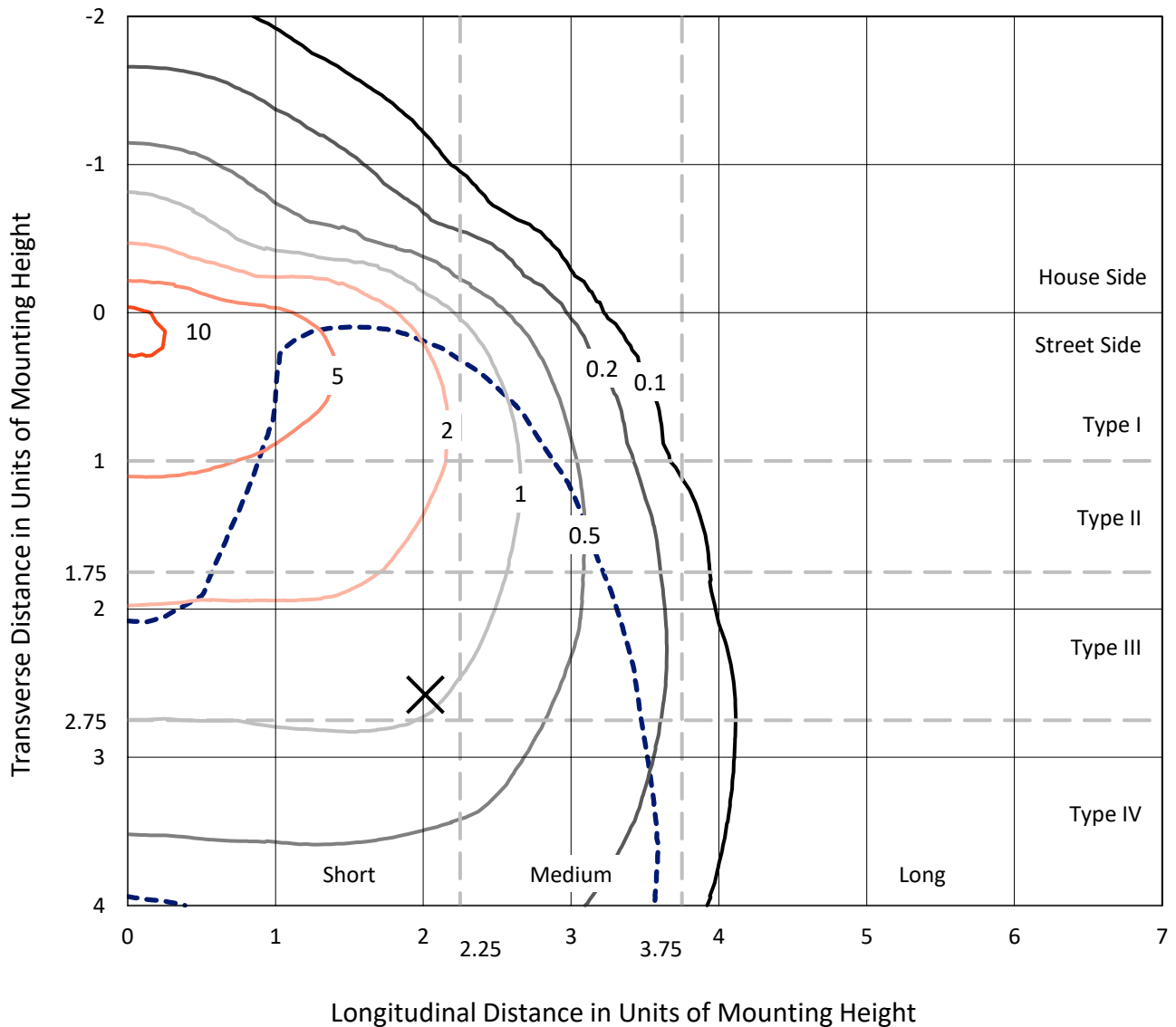
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648653
 CATALOG NUMBER: GALN-SA9B-835-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

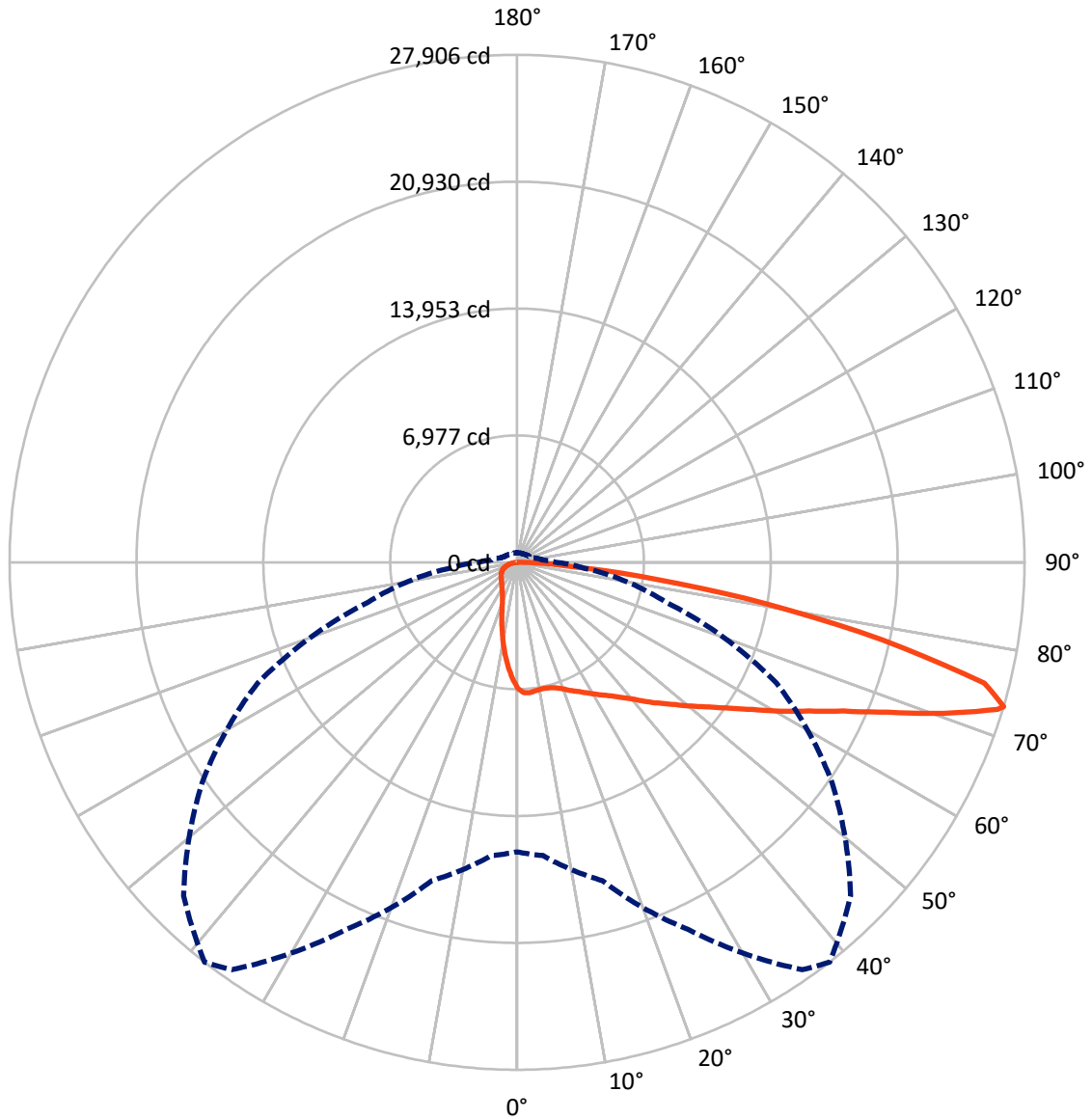
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P648653
CATALOG NUMBER: GALN-SA9B-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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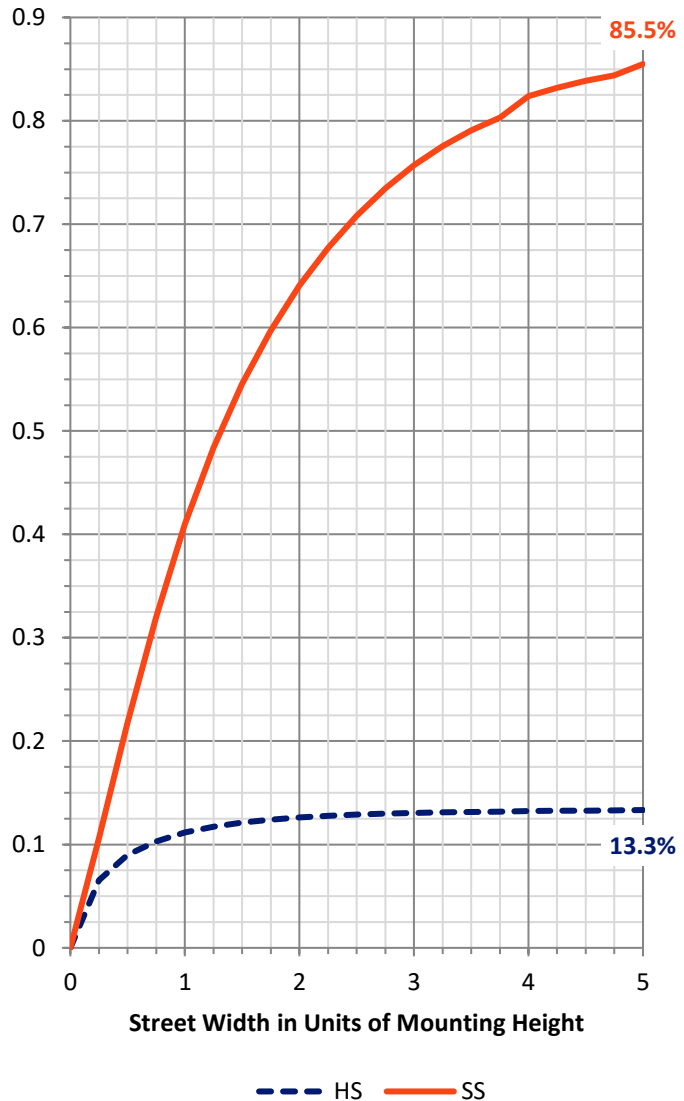
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5314.8	0.0	5314.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34221.2	0.0	34221.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	39536.0	0.0	39536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.3	1.5
10°-20°	1554.7	3.9
20°-30°	2421.0	6.1
30°-40°	3551.1	9.0
40°-50°	5267.6	13.3
50°-60°	7463.2	18.9
60°-70°	9467.2	23.9
70°-80°	7880.8	19.9
80°-90°	1324.1	3.3
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°	39536.0	100.0
0°-180°	39536.0	100.0

Coefficient of Utilization



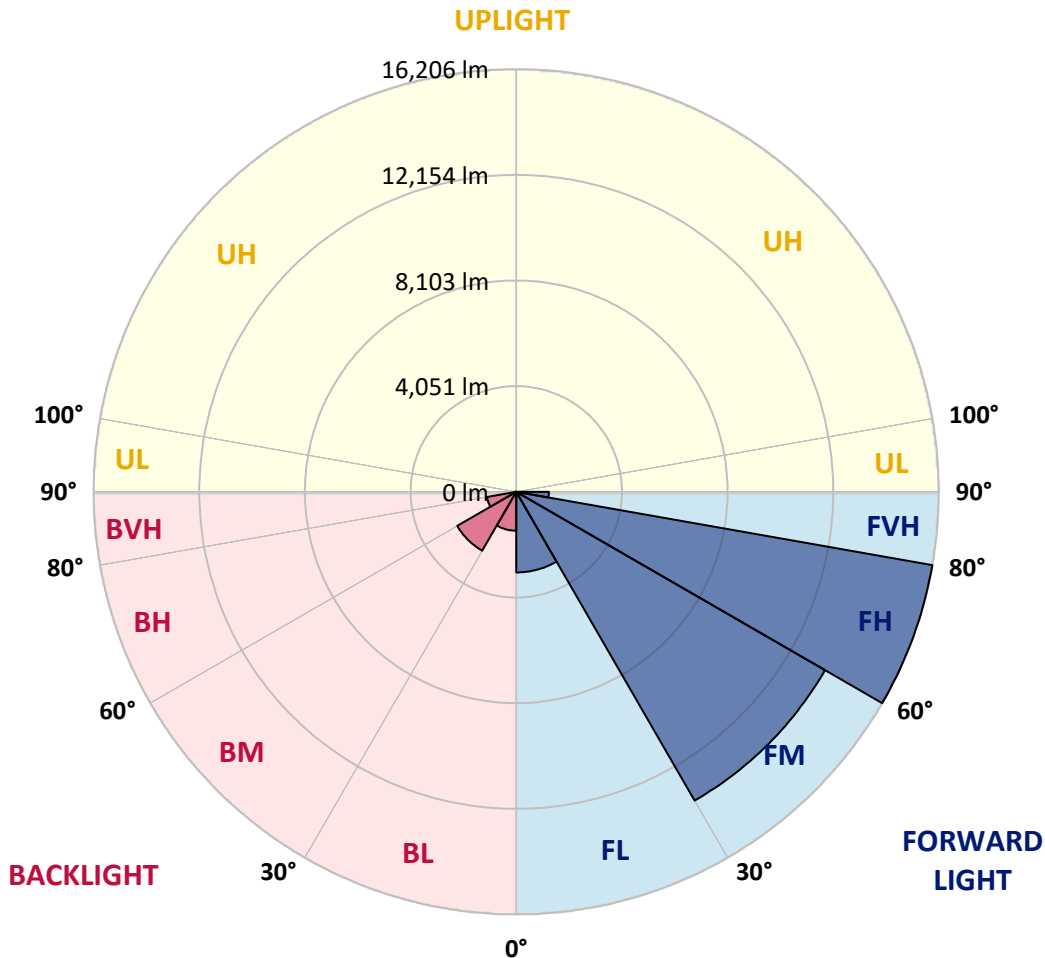
REPORT NUMBER: P648653
 CATALOG NUMBER: GALN-SA9B-835-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3090.6	7.8			
FM (30°-60°)	13672.6	34.6			
FH (60°-80°)	16205.6	41.0			G5
FVH (80°-90°)	1252.3	3.2			G5
BL (0°-30°)	1491.4	3.8	B3/2500		
BM (30°-60°)	2609.2	6.6	B3/5000		
BH (60°-80°)	1142.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	71.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P648653

CATALOG NUMBER: GALN-SA9B-835-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8
2.5°	7224.9	7260.6	7242.8	7218.2	7202.6	7186.9	7164.6	7099.9	7048.5	6992.7	6905.6
5°	7278.5	7300.8	7285.2	7253.9	7218.2	7202.6	7160.1	7075.3	6992.7	6898.9	6769.4
7.5°	7247.2	7256.1	7238.3	7200.3	7169.1	7140.0	7090.9	6997.1	6896.7	6782.8	6613.1
10°	7135.6	7169.1	7169.1	7137.8	7106.6	7090.9	7041.8	6952.5	6861.0	6731.5	6530.5
12.5°	7044.0	7079.7	7108.8	7099.9	7097.7	7097.7	7059.7	6992.7	6885.5	6762.7	6523.8
15°	6981.5	7024.0	7086.5	7122.2	7144.5	7151.2	7135.6	7077.5	6968.2	6825.3	6550.7
17.5°	6968.2	7019.5	7133.4	7211.5	7269.5	7267.3	7262.9	7182.5	7061.9	6914.5	6584.1
20°	7028.4	7095.4	7253.9	7376.7	7461.5	7445.9	7421.4	7316.4	7175.8	7010.6	6615.4
22.5°	7209.2	7278.5	7452.6	7586.6	7669.2	7669.2	7595.5	7457.1	7307.5	7122.2	6657.8
25°	7468.3	7544.1	7729.5	7865.6	7903.6	7874.6	7801.0	7633.5	7461.5	7282.9	6747.1
27.5°	7785.3	7876.8	8048.8	8162.6	8151.4	8129.1	8053.2	7838.8	7667.0	7504.0	6898.9
30°	8180.5	8247.4	8426.1	8452.9	8412.6	8408.2	8301.1	8086.7	7925.9	7801.0	7115.5
32.5°	8553.3	8613.6	8756.5	8767.6	8696.2	8705.2	8604.7	8408.2	8316.6	8272.0	7479.5
35°	8948.5	8979.8	9102.5	9089.1	9042.2	9035.6	8995.4	8807.8	8836.9	8917.3	7995.1
37.5°	9278.9	9341.4	9410.6	9421.8	9419.6	9442.0	9468.7	9379.4	9546.9	9799.2	8671.6
40°	9582.6	9636.1	9738.9	9774.6	9861.7	9906.3	9997.9	10000.1	10386.3	10801.6	9504.4
42.5°	9788.0	9879.5	10071.6	10136.2	10348.4	10482.3	10618.5	10763.7	11324.1	11857.7	10486.8
45°	9966.6	10087.2	10406.5	10607.4	10895.4	11058.4	11346.4	11650.0	12456.0	13154.9	11484.8
47.5°	10236.8	10343.9	10710.1	11065.0	11500.5	11688.0	12118.9	12572.1	13625.9	14391.7	12440.4
50°	10611.8	10676.6	11049.5	11627.7	12183.6	12424.7	12994.1	13648.2	14876.2	15613.0	13279.8
52.5°	11091.8	11118.7	11415.6	12185.8	12918.2	13217.4	13972.0	14735.6	15970.2	16673.5	13945.2
55°	11658.9	11614.3	11846.5	12777.5	13757.6	14148.3	14958.8	15836.3	17200.4	17530.8	14429.7
57.5°	12219.3	12150.1	12335.5	13496.4	14793.6	15264.7	16209.1	16970.4	18298.9	18332.4	14769.0
60°	12813.2	12761.9	12982.9	14340.4	16064.0	16622.2	17495.1	18147.0	19361.6	18890.6	14822.7
62.5°	13422.7	13340.1	13655.0	15289.2	17495.1	18002.0	18848.1	19397.3	20404.3	19098.2	14306.9
65°	14014.4	13976.5	14463.2	16416.8	19125.0	19701.0	20522.6	20895.5	21239.3	18785.6	13027.6
67.5°	14644.1	14719.9	15496.9	17921.5	21250.5	21973.9	22860.2	22509.7	21478.2	17305.3	10971.3
70°	15604.1	15653.2	16854.4	19893.0	23989.9	24862.9	25291.6	23083.5	20326.1	14494.4	8247.4
72.5°	16017.1	16233.7	18066.7	21962.7	27102.3	27635.9	26108.7	21804.2	16932.5	9846.1	4333.6
73°	15925.6	16184.5	18122.5	22277.5	27345.6	27906.0	25934.6	21145.5	15740.3	8479.7	3715.2
75°	14784.7	15103.9	17396.9	22014.0	26872.3	26537.4	23134.8	18022.1	10636.4	3855.8	1692.4
77.5°	11665.7	11757.2	13784.5	17776.4	21161.1	20540.5	17314.3	11263.8	4344.8	1433.4	960.0
80°	5851.8	6188.9	7769.6	10183.1	14150.6	13947.4	10928.9	5327.1	1810.7	841.7	636.3
82.5°	2815.4	3054.2	3784.4	4965.5	7818.8	7633.5	5411.9	2911.4	1149.8	491.2	375.1
85°	1813.0	1991.6	2409.1	2368.9	3215.0	3069.9	2431.4	2203.7	681.0	256.7	261.2
87.5°	1196.7	1310.6	1571.8	1256.9	1169.9	1058.3	1073.9	1241.4	134.0	98.3	35.7
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: P648653
 CATALOG NUMBER: GALN-SA9B-835-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8	6945.8
2.5°	6869.9	6840.8	6744.8	6651.1	6561.8	6477.0	6421.1	6347.5	6298.4	6311.8	6331.8
5°	6698.0	6633.3	6463.6	6298.4	6142.1	5956.8	5807.1	5686.6	5595.1	5561.6	5554.8
7.5°	6517.1	6407.8	6164.4	5880.8	5615.1	5385.2	5119.5	4987.8	4833.7	4780.1	4762.3
10°	6407.8	6260.4	5918.8	5523.6	5124.0	4742.2	4454.2	4219.7	4007.6	3967.5	3947.3
12.5°	6376.5	6182.3	5722.3	5213.3	4681.9	4213.0	3786.6	3478.5	3273.1	3226.2	3157.0
15°	6358.6	6117.5	5539.3	4900.7	4226.4	3654.9	3206.1	2846.7	2659.1	2534.1	2536.3
17.5°	6343.0	6043.8	5333.8	4559.1	3833.5	3174.8	2679.2	2355.4	2183.6	2116.5	2109.9
20°	6320.7	5956.8	5097.2	4199.6	3384.8	2737.2	2288.5	2047.4	1931.3	1875.4	1873.2
22.5°	6311.8	5871.9	4864.9	3833.5	2987.3	2400.1	2029.5	1859.8	1786.1	1748.2	1748.2
25°	6334.1	5811.6	4621.6	3485.2	2634.6	2112.1	1850.9	1734.8	1692.4	1672.3	1665.6
27.5°	6403.3	5784.8	4380.5	3136.9	2310.8	1915.6	1730.3	1649.9	1618.7	1603.0	1605.3
30°	6535.0	5782.6	4143.8	2793.0	2069.7	1766.1	1634.3	1578.5	1553.9	1545.0	1542.7
32.5°	6747.1	5831.7	3911.6	2509.5	1866.5	1641.0	1545.0	1504.8	1493.7	1486.9	1484.7
35°	7106.6	5970.1	3681.7	2250.5	1710.2	1529.4	1460.1	1440.1	1424.4	1431.2	1433.4
37.5°	7591.0	6209.0	3462.9	2047.4	1591.9	1446.7	1388.7	1370.9	1362.0	1368.6	1375.3
40°	8240.8	6552.8	3279.8	1884.4	1507.0	1377.5	1326.2	1310.6	1301.7	1312.8	1315.0
42.5°	8957.4	6950.3	3127.9	1757.1	1437.8	1319.5	1270.4	1252.5	1245.8	1252.5	1254.8
45°	9694.2	7412.4	3049.8	1665.6	1379.8	1277.1	1225.7	1205.7	1190.0	1185.5	1192.3
47.5°	10419.9	7814.3	3047.6	1609.8	1332.9	1239.1	1183.3	1161.0	1140.9	1129.7	1127.5
50°	11011.5	8133.6	3101.1	1585.2	1292.7	1196.7	1140.9	1118.6	1091.7	1069.4	1073.9
52.5°	11458.0	8341.2	3125.7	1574.1	1270.4	1152.0	1096.2	1076.2	1044.9	1015.9	1015.9
55°	11746.0	8390.3	3065.4	1562.9	1252.5	1105.2	1044.9	1027.1	995.7	966.8	966.8
57.5°	11844.3	8238.5	2848.9	1536.1	1234.6	1065.0	993.5	977.9	953.4	924.3	919.9
60°	11616.5	7725.0	2469.3	1455.7	1198.9	1022.5	937.7	931.0	922.1	897.6	895.3
62.5°	10739.1	6635.5	2056.3	1350.8	1138.6	977.9	886.4	897.6	904.2	890.8	888.6
65°	9278.9	5387.4	1757.1	1205.7	1058.3	915.4	830.5	859.6	877.4	877.4	873.0
67.5°	7526.3	4137.1	1480.3	1080.6	957.8	830.5	768.0	790.4	803.7	799.3	810.5
70°	5349.5	2802.0	1205.7	937.7	830.5	734.5	687.6	687.6	678.7	674.2	674.2
72.5°	2594.3	1600.8	977.9	783.6	707.8	627.3	589.4	573.8	555.9	553.7	542.5
73°	2167.9	1435.6	933.3	754.7	678.7	611.8	569.3	544.7	533.6	524.7	522.4
75°	1319.5	1089.5	779.2	636.3	578.2	526.9	489.0	466.6	455.5	448.7	446.5
77.5°	868.5	812.7	605.0	486.7	442.1	410.8	395.2	372.9	366.1	357.2	357.2
80°	647.5	620.7	433.2	343.8	317.0	290.3	285.8	281.3	263.5	252.3	247.8
82.5°	417.5	442.1	294.7	230.0	200.9	178.6	180.9	187.5	169.7	154.0	149.6
85°	296.9	319.3	178.6	104.9	84.9	73.7	82.6	73.7	75.9	60.3	49.1
87.5°	49.1	84.9	31.2	13.4	6.7	4.5	0.0	0.0	0.0	0.0	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)