

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: P647168

Luminaire Tested: **GALN-SA9C-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647168
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-SA9C-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA 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: 48848.2 lumens
Efficiency: N/A
Efficacy: 101.6 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

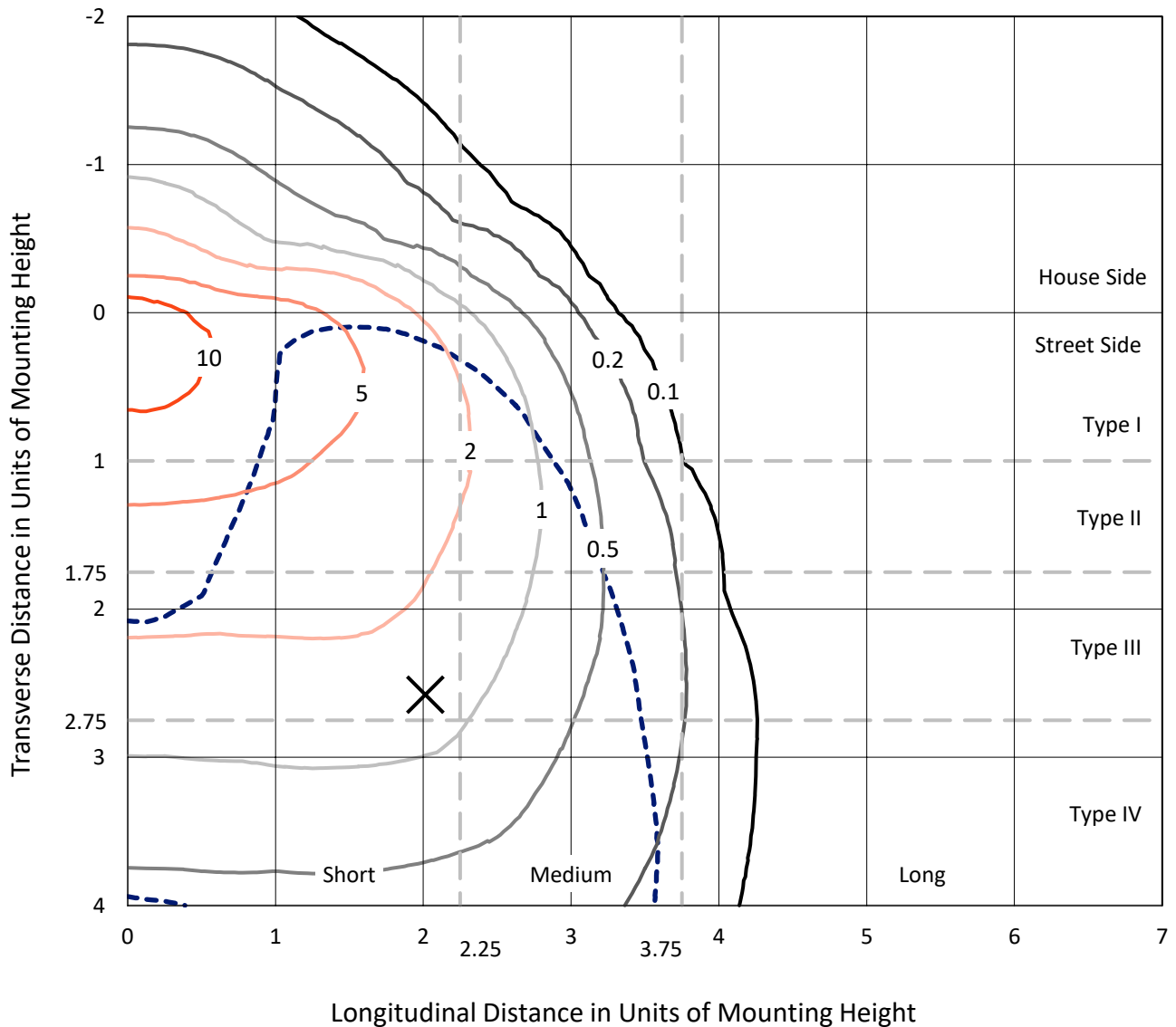
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

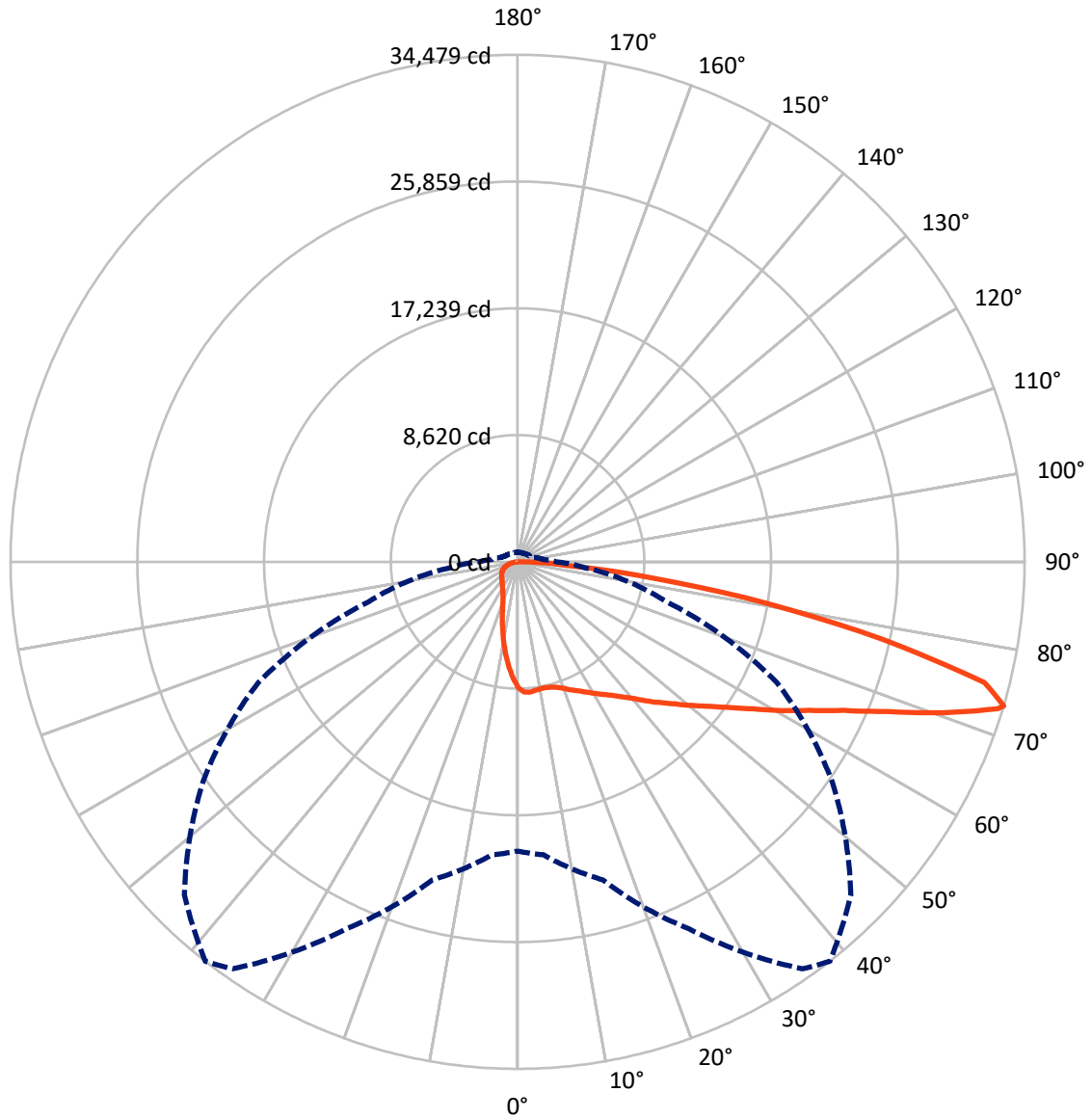
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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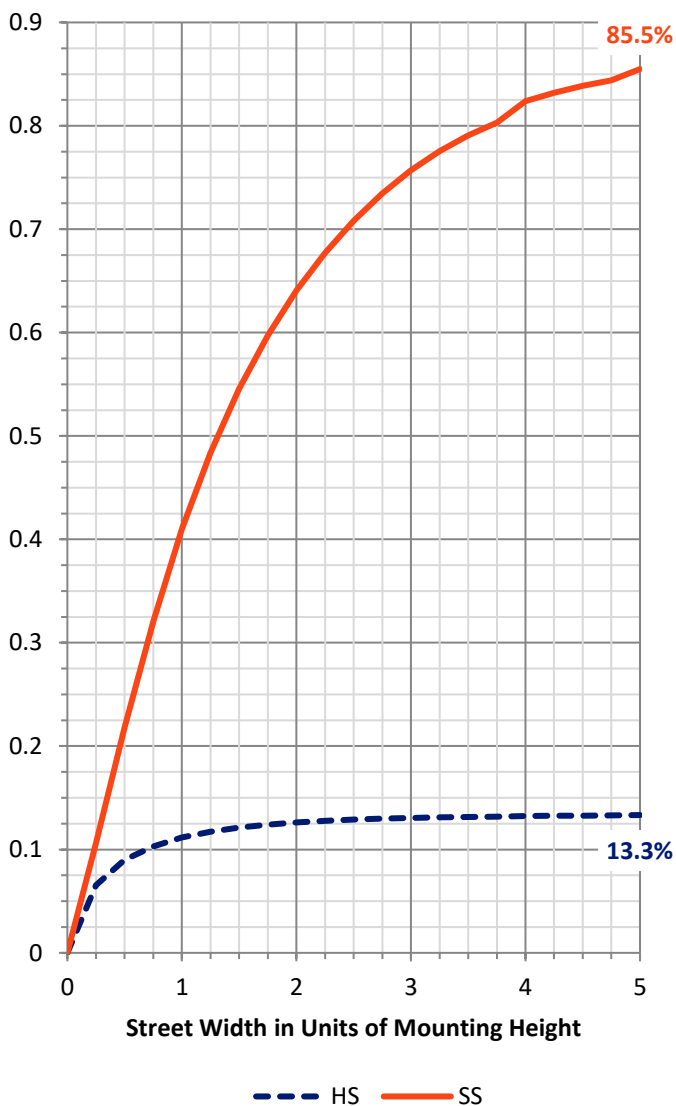
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6566.6	0.0	6566.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	42281.6	0.0	42281.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	48848.2	0.0	48848.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.1	1.5
10°-20°	1920.9	3.9
20°-30°	2991.3	6.1
30°-40°	4387.5	9.0
40°-50°	6508.3	13.3
50°-60°	9221.0	18.9
60°-70°	11697.1	23.9
70°-80°	9737.0	19.9
80°-90°	1636.0	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°	48848.2	100.0
0°-180°	48848.2	100.0

Coefficient of Utilization

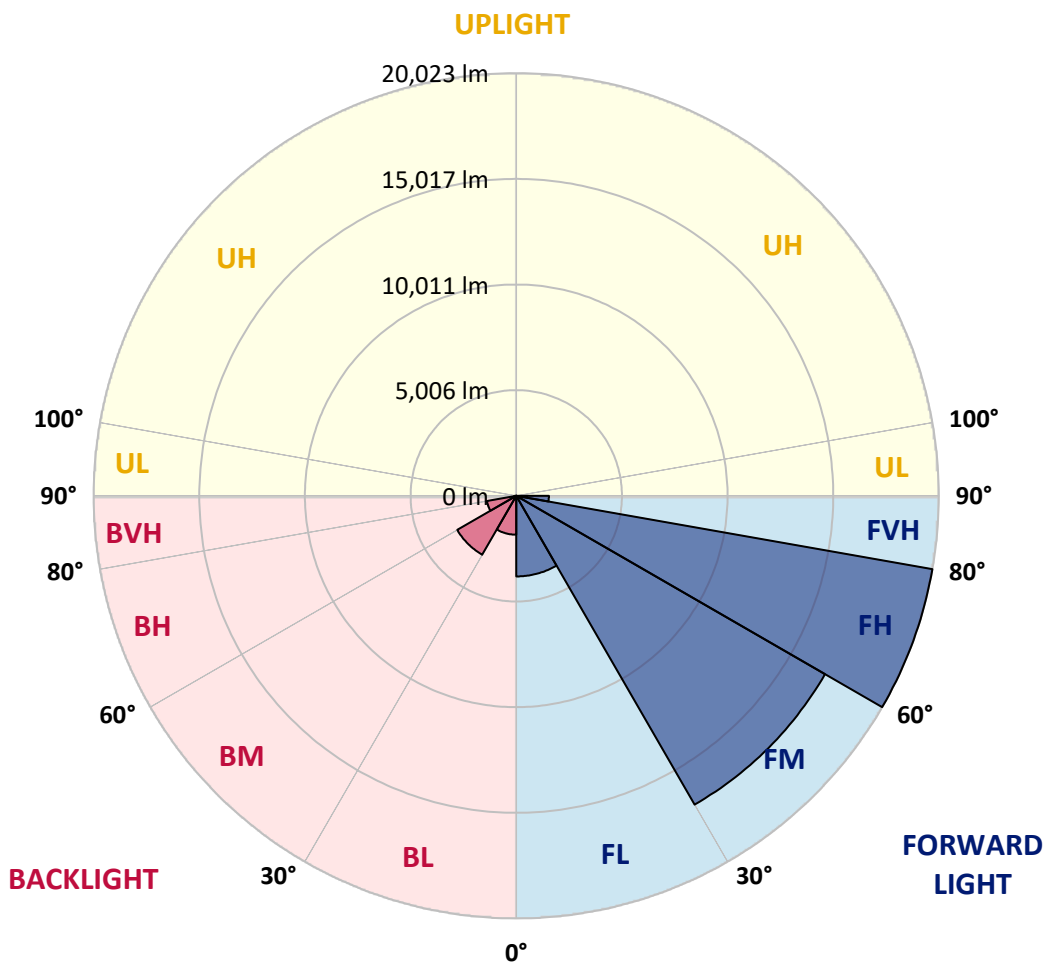


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3818.6	7.8			
FM (30°-60°)	16893.0	34.6			
FH (60°-80°)	20022.7	41.0			G5
FVH (80°-90°)	1547.3	3.2			G5
BL (0°-30°)	1842.7	3.8	B3/2500		
BM (30°-60°)	3223.8	6.6	B3/5000		
BH (60°-80°)	1411.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	88.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8
2.5°	8926.6	8970.8	8948.7	8918.4	8899.0	8879.8	8852.1	8772.2	8708.7	8639.7	8532.1
5°	8992.8	9020.4	9001.1	8962.5	8918.4	8899.0	8846.6	8741.8	8639.7	8523.9	8363.8
7.5°	8954.2	8965.3	8943.2	8896.3	8857.7	8821.8	8761.1	8645.3	8521.2	8380.4	8170.8
10°	8816.3	8857.7	8857.7	8819.0	8780.4	8761.1	8700.5	8590.1	8477.0	8317.0	8068.7
12.5°	8703.2	8747.3	8783.1	8772.2	8769.4	8769.4	8722.5	8639.7	8507.3	8355.6	8060.4
15°	8625.9	8678.4	8755.6	8799.7	8827.3	8835.6	8816.3	8744.5	8609.4	8432.8	8093.6
17.5°	8609.4	8672.8	8813.5	8910.1	8981.8	8979.1	8973.5	8874.2	8725.3	8543.2	8134.9
20°	8683.9	8766.6	8962.5	9114.2	9219.0	9199.7	9169.4	9039.7	8865.9	8661.8	8173.6
22.5°	8907.3	8992.8	9208.0	9373.5	9475.6	9475.6	9384.6	9213.5	9028.7	8799.7	8226.0
25°	9227.3	9321.1	9550.0	9718.4	9765.2	9729.3	9638.3	9431.5	9219.0	8998.3	8336.3
27.5°	9619.0	9732.1	9944.5	10085.2	10071.4	10043.9	9950.1	9685.2	9472.8	9271.4	8523.9
30°	10107.3	10190.0	10410.7	10443.8	10394.2	10388.7	10256.2	9991.4	9792.8	9638.3	8791.4
32.5°	10567.9	10642.5	10818.9	10832.8	10744.5	10755.5	10631.4	10388.7	10275.5	10220.3	9241.1
35°	11056.2	11094.8	11246.5	11230.0	11172.1	11163.8	11114.1	10882.4	10918.3	11017.6	9878.3
37.5°	11464.5	11541.7	11627.2	11641.0	11638.3	11665.8	11699.0	11588.6	11795.5	12107.2	10714.2
40°	11839.7	11905.8	12032.8	12076.8	12184.4	12239.6	12352.8	12355.5	12832.7	13345.8	11743.1
42.5°	12093.4	12206.5	12443.7	12523.8	12785.8	12951.4	13119.6	13298.9	13991.3	14650.6	12956.8
45°	12314.1	12463.1	12857.6	13105.8	13461.6	13663.0	14018.9	14394.0	15389.9	16253.3	14189.9
47.5°	12647.9	12780.3	13232.7	13671.3	14209.3	14440.9	14973.3	15533.3	16835.4	17781.5	15370.6
50°	13111.3	13191.4	13652.0	14366.5	15053.3	15351.3	16054.7	16862.9	18380.1	19290.5	16407.8
52.5°	13704.4	13737.5	14104.4	15056.1	15960.9	16330.6	17263.0	18206.3	19731.8	20600.7	17229.8
55°	14405.1	14349.9	14636.8	15787.1	16998.1	17480.9	18482.2	19566.3	21251.8	21660.1	17828.4
57.5°	15097.5	15012.0	15240.9	16675.3	18278.0	18860.1	20026.9	20967.6	22609.0	22650.3	18247.7
60°	15831.2	15767.8	16040.9	17718.1	19847.6	20537.3	21615.9	22421.4	23922.1	23340.0	18313.9
62.5°	16584.3	16482.2	16871.2	18890.4	21615.9	22242.1	23287.6	23966.1	25210.3	23596.5	17676.7
65°	17315.3	17268.4	17869.8	20283.5	23629.6	24341.4	25356.4	25817.2	26241.9	23210.3	16096.1
67.5°	18093.3	18187.1	19147.0	22142.8	26255.8	27149.5	28244.7	27811.5	26537.1	21381.4	13555.5
70°	19279.4	19340.1	20824.2	24578.5	29640.5	30719.0	31248.7	28520.5	25113.7	17908.4	10190.0
72.5°	19789.8	20057.3	22322.1	27135.7	33485.9	34145.1	32258.3	26939.9	20920.7	12165.2	5354.3
73°	19676.6	19996.6	22391.1	27524.6	33786.5	34478.9	32043.2	26126.1	19447.7	10476.9	4590.2
75°	18267.0	18661.5	21494.5	27199.1	33201.8	32788.0	28584.0	22266.9	13141.6	4764.0	2091.0
77.5°	14413.4	14526.5	17031.2	21963.5	26145.4	25378.5	21392.4	13916.8	5368.1	1771.0	1186.2
80°	7230.1	7646.7	9599.7	12581.7	17483.6	17232.6	13503.1	6581.9	2237.2	1040.0	786.2
82.5°	3478.5	3773.7	4675.7	6135.0	9660.4	9431.5	6686.7	3597.1	1420.7	606.9	463.5
85°	2239.9	2460.6	2976.5	2926.8	3972.3	3793.0	3004.1	2722.6	841.3	317.2	322.8
87.5°	1478.5	1619.2	1942.0	1553.1	1445.5	1307.5	1326.9	1533.7	165.5	121.4	44.2
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°	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8	8581.8
2.5°	8488.0	8452.2	8333.5	8217.7	8107.3	8002.5	7933.5	7842.5	7781.8	7798.4	7823.2
5°	8275.6	8195.6	7986.0	7781.8	7588.8	7359.8	7174.9	7026.0	6912.9	6871.5	6863.2
7.5°	8052.1	7917.0	7616.3	7266.0	6937.7	6653.6	6325.3	6162.6	5972.3	5906.0	5883.9
10°	7917.0	7734.9	7312.9	6824.6	6330.9	5859.1	5503.3	5213.6	4951.5	4901.9	4877.1
12.5°	7878.4	7638.4	7070.1	6441.2	5784.6	5205.4	4678.5	4297.8	4044.0	3986.1	3900.6
15°	7856.3	7558.4	6844.0	6055.0	5221.9	4515.7	3961.3	3517.2	3285.4	3130.9	3133.7
17.5°	7837.0	7467.4	6590.1	5632.9	4736.4	3922.7	3310.2	2910.3	2697.8	2615.1	2606.8
20°	7809.4	7359.8	6297.7	5188.8	4181.9	3381.9	2827.5	2529.6	2386.1	2317.1	2314.4
22.5°	7798.4	7255.0	6010.9	4736.4	3690.9	2965.5	2507.5	2297.9	2206.8	2159.9	2159.9
25°	7826.0	7180.5	5710.2	4306.1	3255.1	2609.6	2286.8	2143.4	2091.0	2066.2	2057.9
27.5°	7911.5	7147.4	5412.3	3875.8	2855.1	2366.9	2137.9	2038.5	1999.9	1980.6	1983.4
30°	8074.2	7144.6	5119.9	3450.9	2557.2	2182.0	2019.3	1950.3	1919.9	1908.9	1906.1
32.5°	8336.3	7205.3	4833.0	3100.6	2306.2	2027.5	1908.9	1859.2	1845.5	1837.2	1834.4
35°	8780.4	7376.3	4548.8	2780.6	2113.0	1889.6	1804.1	1779.3	1759.9	1768.2	1771.0
37.5°	9379.0	7671.5	4278.5	2529.6	1966.8	1787.5	1715.8	1693.7	1682.7	1691.0	1699.3
40°	10181.7	8096.3	4052.3	2328.2	1862.0	1702.0	1638.6	1619.2	1608.2	1622.0	1624.8
42.5°	11067.2	8587.3	3864.7	2170.9	1776.5	1630.3	1569.6	1547.5	1539.3	1547.5	1550.3
45°	11977.6	9158.4	3768.2	2057.9	1704.7	1577.9	1514.4	1489.6	1470.3	1464.8	1473.1
47.5°	12874.1	9654.9	3765.4	1988.9	1646.9	1531.0	1462.0	1434.5	1409.6	1395.9	1393.0
50°	13605.1	10049.3	3831.6	1958.6	1597.2	1478.5	1409.6	1382.0	1349.0	1321.3	1326.9
52.5°	14156.8	10305.9	3861.9	1944.7	1569.6	1423.4	1354.4	1329.6	1291.0	1255.1	1255.1
55°	14512.7	10366.6	3787.4	1931.0	1547.5	1365.5	1291.0	1268.9	1230.3	1194.5	1194.5
57.5°	14634.0	10179.0	3519.9	1897.8	1525.4	1315.8	1227.6	1208.2	1177.9	1142.0	1136.5
60°	14352.7	9544.5	3051.0	1798.6	1481.4	1263.4	1158.6	1150.3	1139.3	1109.0	1106.1
62.5°	13268.6	8198.4	2540.6	1668.9	1406.8	1208.2	1095.1	1109.0	1117.2	1100.7	1097.9
65°	11464.5	6656.4	2170.9	1489.6	1307.5	1131.0	1026.2	1062.1	1084.1	1084.1	1078.6
67.5°	9299.1	5111.6	1828.9	1335.1	1183.4	1026.2	948.9	976.6	993.1	987.5	1001.4
70°	6609.5	3462.0	1489.6	1158.6	1026.2	907.6	849.6	849.6	838.6	833.1	833.1
72.5°	3205.4	1977.9	1208.2	968.3	874.5	775.2	728.3	708.9	686.8	684.1	670.3
73°	2678.6	1773.7	1153.0	932.4	838.6	755.8	703.4	673.1	659.3	648.2	645.5
75°	1630.3	1346.1	962.7	786.2	714.5	651.0	604.1	576.5	562.7	554.4	551.7
77.5°	1073.1	1004.1	747.5	601.3	546.2	507.5	488.3	460.6	452.4	441.4	441.4
80°	800.0	766.9	535.2	424.8	391.7	358.6	353.1	347.6	325.5	311.7	306.2
82.5°	515.8	546.2	364.1	284.2	248.3	220.6	223.5	231.7	209.7	190.3	184.8
85°	366.9	394.5	220.6	129.7	104.8	91.1	102.1	91.1	93.8	74.5	60.7
87.5°	60.7	104.8	38.6	16.5	8.3	5.5	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)