

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: P648541

Luminaire Tested: **GALN-SA7B-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30758.6 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

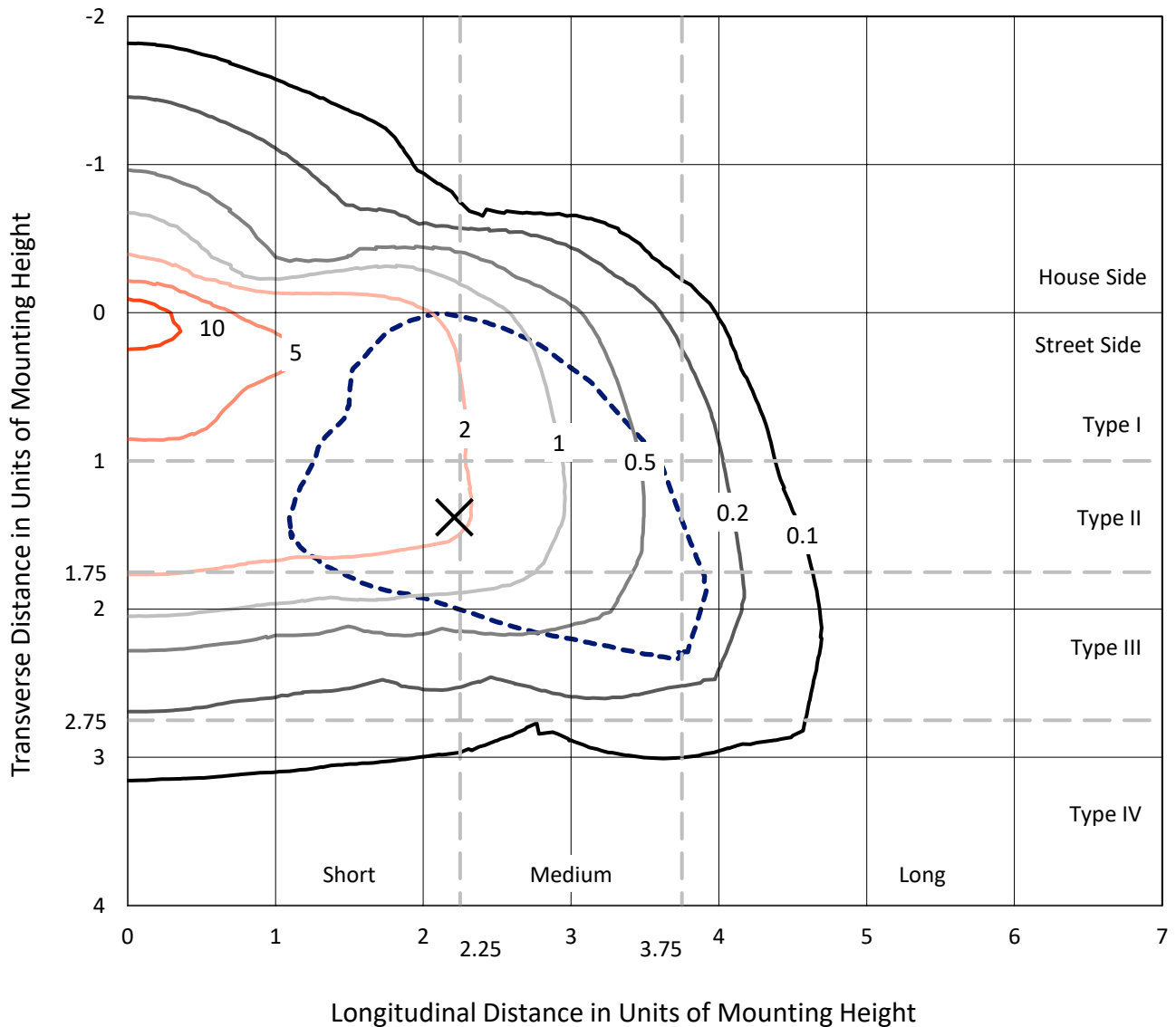
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

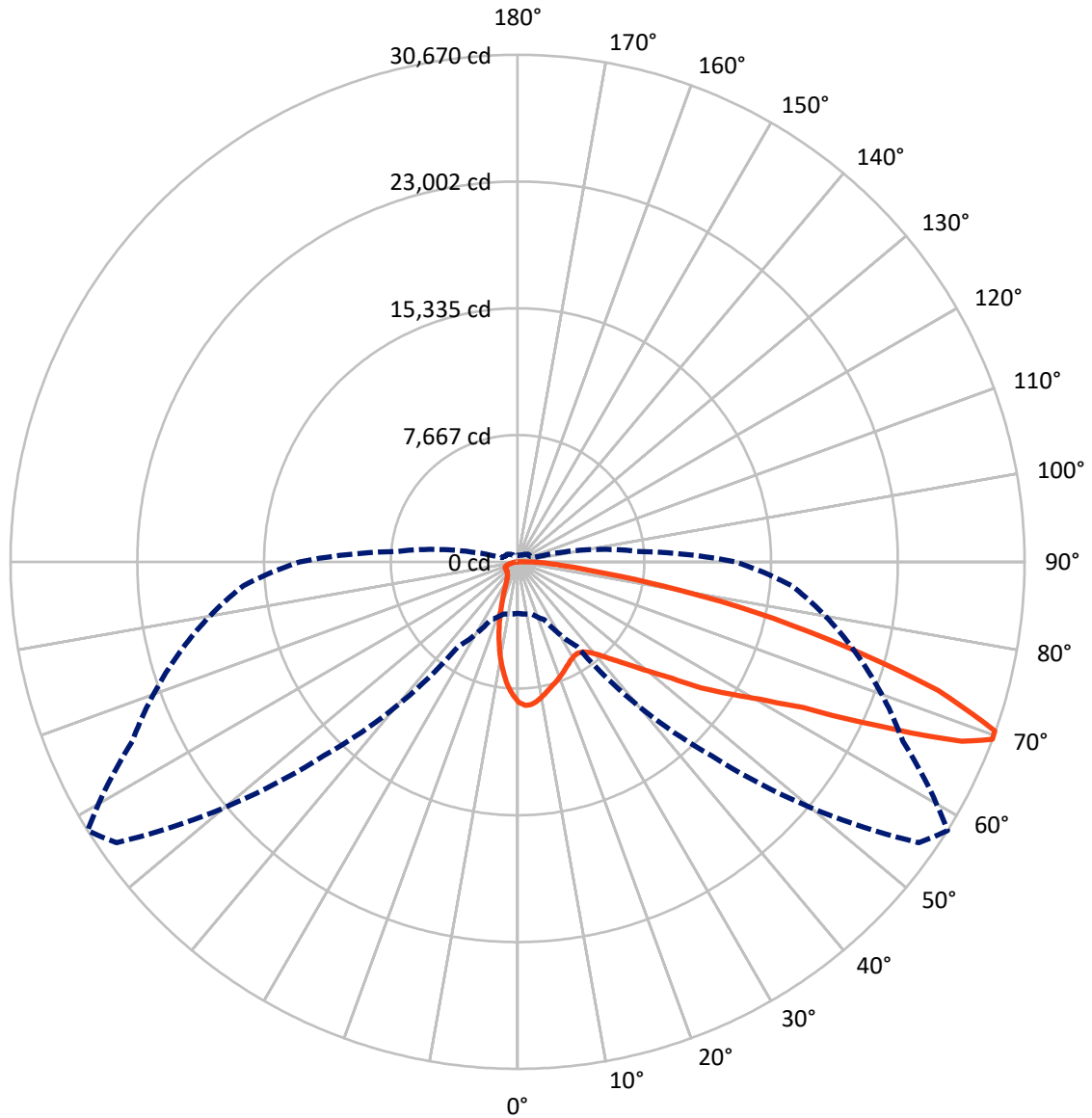
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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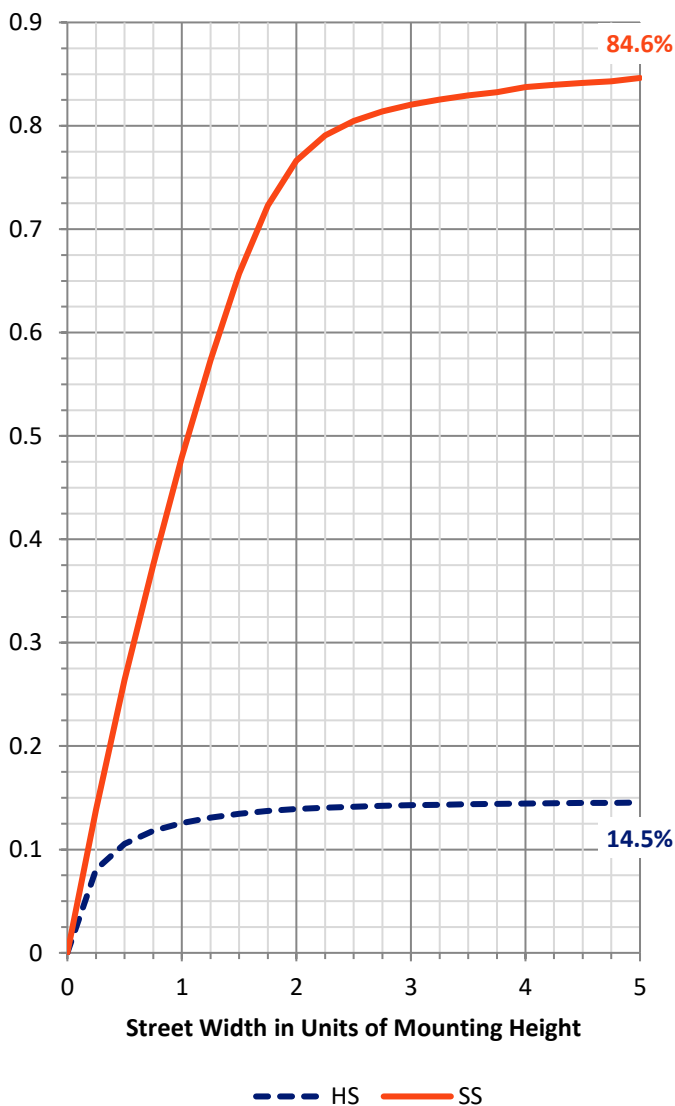
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4507.7	0.0	4507.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26250.9	0.0	26250.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	30758.6	0.0	30758.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.8	2.3
10°-20°	1585.1	5.2
20°-30°	2047.9	6.7
30°-40°	2659.8	8.6
40°-50°	3867.0	12.6
50°-60°	6170.5	20.1
60°-70°	8243.0	26.8
70°-80°	4751.7	15.4
80°-90°	711.7	2.3
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°	30758.6	100.0
0°-180°	30758.6	100.0

Coefficient of Utilization

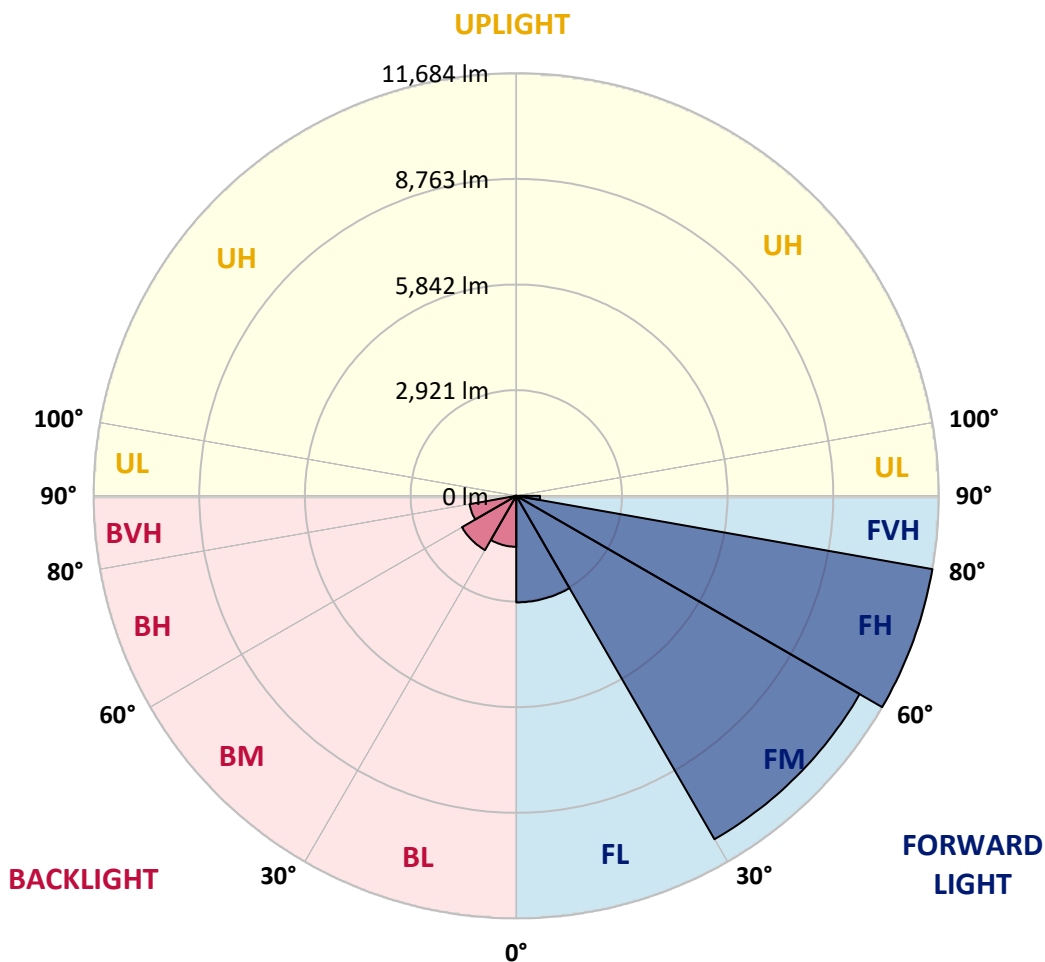


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2945.9	9.6			
FM	(30°-60°)	10963.8	35.6			
FH	(60°-80°)	11684.0	38.0			G4/12000
FVH	(80°-90°)	657.2	2.1			G4/750
BL	(0°-30°)	1408.9	4.6	B3/2500		
BM	(30°-60°)	1733.5	5.6	B2/2500		
BH	(60°-80°)	1310.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	54.5	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9
2.5°	8815.5	8839.5	8832.6	8824.1	8810.4	8772.7	8710.9	8700.5	8661.2	8577.1	8472.5
5°	8680.0	8700.5	8702.3	8714.3	8731.5	8724.6	8680.0	8674.9	8616.5	8503.3	8328.3
7.5°	8215.1	8242.6	8302.6	8369.5	8429.5	8486.2	8499.9	8508.5	8472.5	8342.1	8108.7
10°	7691.9	7719.4	7746.8	7846.3	7993.8	8134.5	8251.2	8266.6	8275.1	8155.1	7870.3
12.5°	7112.1	7168.7	7227.0	7374.5	7571.8	7793.1	7999.0	8031.5	8089.9	7999.0	7664.5
15°	6619.8	6678.1	6762.1	6894.2	7132.7	7451.7	7741.7	7794.8	7909.8	7863.4	7472.3
17.5°	6278.4	6299.0	6357.3	6508.3	6765.6	7101.8	7489.5	7595.9	7779.4	7767.4	7307.7
20°	6009.1	6034.8	6070.8	6163.5	6431.1	6786.2	7254.5	7391.8	7640.4	7681.6	7144.7
22.5°	5895.9	5914.8	5909.6	5959.3	6141.1	6498.0	7016.1	7179.0	7517.0	7623.3	6993.8
25°	5902.7	5919.9	5894.2	5882.1	5990.2	6244.1	6767.3	6974.9	7417.4	7583.8	6856.5
27.5°	6017.7	6029.6	5981.7	5933.7	5942.2	6086.3	6561.5	6791.4	7333.4	7601.0	6741.6
30°	6172.1	6194.4	6163.5	6105.1	6041.7	6048.5	6429.4	6655.8	7294.0	7661.0	6686.7
32.5°	6371.0	6391.6	6377.9	6331.6	6249.3	6158.3	6396.8	6606.1	7297.4	7782.9	6674.7
35°	6580.3	6621.5	6643.8	6640.4	6573.4	6415.7	6525.4	6698.7	7379.7	7987.0	6745.0
37.5°	6817.0	6851.3	6947.4	7009.2	6947.4	6763.9	6815.3	6935.4	7561.5	8282.0	6899.4
40°	7046.9	7098.4	7239.1	7431.1	7407.2	7245.9	7257.9	7336.8	7882.3	8721.1	7201.3
42.5°	7287.1	7348.8	7594.2	7878.9	7935.5	7810.3	7842.8	7913.2	8338.6	9330.1	7719.4
45°	7595.9	7669.6	7971.5	8326.6	8549.7	8472.5	8565.1	8599.4	8949.3	10122.6	8402.1
47.5°	7993.8	8079.6	8451.9	8894.4	9210.0	9280.4	9441.6	9421.1	9705.8	11061.0	9287.2
50°	8664.5	8712.6	9064.2	9515.4	9949.4	10266.8	10441.7	10474.3	10644.1	11973.6	10277.0
52.5°	9462.2	9505.1	9759.0	10153.6	10697.3	11369.8	11802.1	11695.7	11736.9	13085.2	11434.9
55°	10359.4	10431.4	10592.7	10855.1	11560.1	12550.0	13418.0	13443.7	12987.4	14148.7	12544.8
57.5°	11054.2	11175.9	11452.1	11826.0	12719.8	13862.2	15028.7	15045.9	14462.6	15284.3	13769.6
60°	10704.2	10848.3	11479.6	12390.4	14241.4	16152.4	16953.4	16855.6	15898.4	16577.8	15263.7
62.5°	9194.6	9220.4	10138.1	11561.9	14709.7	19216.1	19818.2	19404.8	17814.6	18217.7	16781.9
65°	5950.8	6118.9	6846.2	8841.2	13170.9	20916.0	24837.5	23882.0	20500.9	20078.9	18053.0
67.5°	3756.8	3713.8	4015.8	5048.5	9059.1	19418.5	29120.9	28969.9	24014.1	21254.0	17749.4
69°	3115.2	3163.2	3266.1	3870.0	6233.8	16579.5	29626.9	30669.9	25717.5	21161.4	16646.3
70°	2825.3	2847.6	2955.7	3430.8	4810.0	13886.3	28796.6	30623.5	26386.5	20773.7	15847.0
72.5°	2242.0	2240.3	2425.6	2854.4	3595.5	7926.9	23645.3	26587.2	25638.6	18969.0	13093.7
75°	1703.4	1730.8	1934.9	2415.3	3312.5	4331.4	16500.6	20475.1	20476.9	14982.4	8170.5
77.5°	1228.2	1245.4	1483.9	2027.7	3120.3	3511.4	10990.7	14685.6	13805.6	6865.1	2568.0
80°	804.5	814.8	996.7	1605.6	2813.2	3312.5	6516.8	8988.8	6511.7	1821.8	849.2
82.5°	440.8	492.4	608.9	1039.5	2257.5	3060.3	3960.9	4549.3	2442.7	811.4	442.6
85°	221.3	235.0	343.1	607.3	1475.3	2532.0	2758.4	2609.1	1260.9	403.1	229.9
87.5°	65.2	82.4	142.3	235.0	598.7	1319.1	1535.3	1377.5	485.5	145.8	48.0
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°	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9	8499.9
2.5°	8429.5	8398.7	8261.4	8138.0	8024.7	7904.6	7803.4	7714.2	7722.8	7724.5	7633.6
5°	8237.4	8167.1	7906.3	7662.8	7456.9	7196.2	6973.2	6829.1	6757.0	6661.0	6695.3
7.5°	7976.7	7841.1	7479.2	7074.3	6695.3	6357.3	5990.2	5738.1	5576.8	5420.7	5441.3
10°	7707.4	7489.5	6962.8	6427.6	5937.0	5396.7	4928.4	4527.0	4228.5	4117.0	4043.3
12.5°	7431.1	7144.7	6475.7	5763.8	5086.2	4439.5	3775.6	3345.1	3015.7	2840.7	2863.0
15°	7179.0	6830.8	5967.9	5099.9	4219.9	3449.7	2787.6	2377.6	2147.7	2099.7	2127.1
17.5°	6945.7	6489.4	5492.7	4455.0	3427.4	2586.9	2094.5	1862.9	1770.3	1744.6	1742.9
20°	6705.5	6199.5	4959.3	3765.4	2670.9	2005.3	1718.8	1610.8	1593.6	1603.9	1605.6
22.5°	6461.9	5840.9	4410.3	3080.9	2127.1	1639.9	1502.7	1473.5	1487.2	1511.3	1514.7
25°	6237.2	5525.3	3882.0	2480.5	1698.2	1441.0	1374.0	1374.0	1404.9	1441.0	1442.7
27.5°	6052.0	5220.0	3355.3	1969.3	1422.1	1296.9	1274.6	1286.5	1329.5	1356.9	1358.6
30°	5899.3	4935.2	2857.9	1578.2	1250.5	1181.9	1176.8	1197.4	1228.2	1254.0	1255.7
32.5°	5784.4	4684.8	2393.0	1326.0	1132.1	1094.4	1092.8	1108.2	1125.3	1132.1	1139.0
35°	5739.8	4477.2	1967.6	1166.5	1053.3	1029.3	1029.3	1027.5	1034.4	1037.8	1041.2
37.5°	5775.8	4317.7	1638.2	1063.5	995.0	977.8	967.5	957.2	953.8	953.8	955.5
40°	5928.5	4233.6	1392.9	996.7	953.8	928.0	909.1	897.2	885.2	888.5	892.0
42.5°	6252.6	4249.1	1226.5	952.0	917.8	881.7	854.3	840.6	831.9	842.3	840.6
45°	6769.0	4403.4	1120.2	921.2	881.7	835.4	809.7	795.9	795.9	811.4	816.5
47.5°	7491.2	4698.5	1063.5	897.2	854.3	799.4	773.7	763.3	766.8	792.6	794.3
50°	8372.9	5211.4	1053.3	885.2	840.6	773.7	744.5	734.2	742.8	770.2	773.7
52.5°	9345.6	5871.9	1103.0	886.9	828.6	758.2	720.4	705.0	713.6	735.9	742.8
55°	10498.3	6698.7	1231.7	893.7	811.4	749.6	703.3	669.0	679.3	694.8	696.5
57.5°	11675.1	7741.7	1458.1	895.4	797.6	734.2	674.2	629.5	629.5	639.9	645.0
60°	13112.6	8877.3	1756.6	897.2	799.4	711.9	634.7	585.0	578.1	583.3	585.0
62.5°	14539.8	9827.6	1806.3	892.0	816.5	689.6	591.8	540.3	528.4	526.6	523.2
65°	15169.4	9650.9	1480.4	868.0	835.4	675.9	557.5	497.4	476.8	470.0	470.0
67.5°	14143.6	8163.6	1113.3	835.4	823.4	662.2	524.9	461.4	437.5	423.7	423.7
69°	13179.5	7261.3	1000.0	813.1	792.6	639.9	504.3	442.6	413.4	398.0	392.8
70°	12435.1	6640.4	952.0	794.3	763.3	614.1	488.9	428.8	396.3	379.1	375.7
72.5°	9923.7	5209.7	833.7	722.2	650.1	516.3	434.0	385.9	355.1	336.2	331.1
75°	5719.2	2823.6	691.3	627.8	523.2	401.4	367.1	336.2	312.2	295.0	289.9
77.5°	1760.0	1091.0	500.9	495.7	384.2	310.5	293.3	281.3	264.2	245.3	241.9
80°	741.0	555.8	339.7	334.5	255.6	216.1	211.0	209.3	202.4	187.0	181.8
82.5°	406.5	313.9	236.7	205.9	154.4	125.2	130.4	132.1	126.9	111.5	101.2
85°	199.0	171.6	114.9	92.6	70.3	44.6	42.9	51.4	48.0	34.3	37.7
87.5°	39.5	48.0	30.9	13.7	6.9	0.0	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)