

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: P648101

Luminaire Tested: **GALN-SA8A-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648101
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-SA8A-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA 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: 28659.4 lumens
Efficiency: N/A
Efficacy: 117.5 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

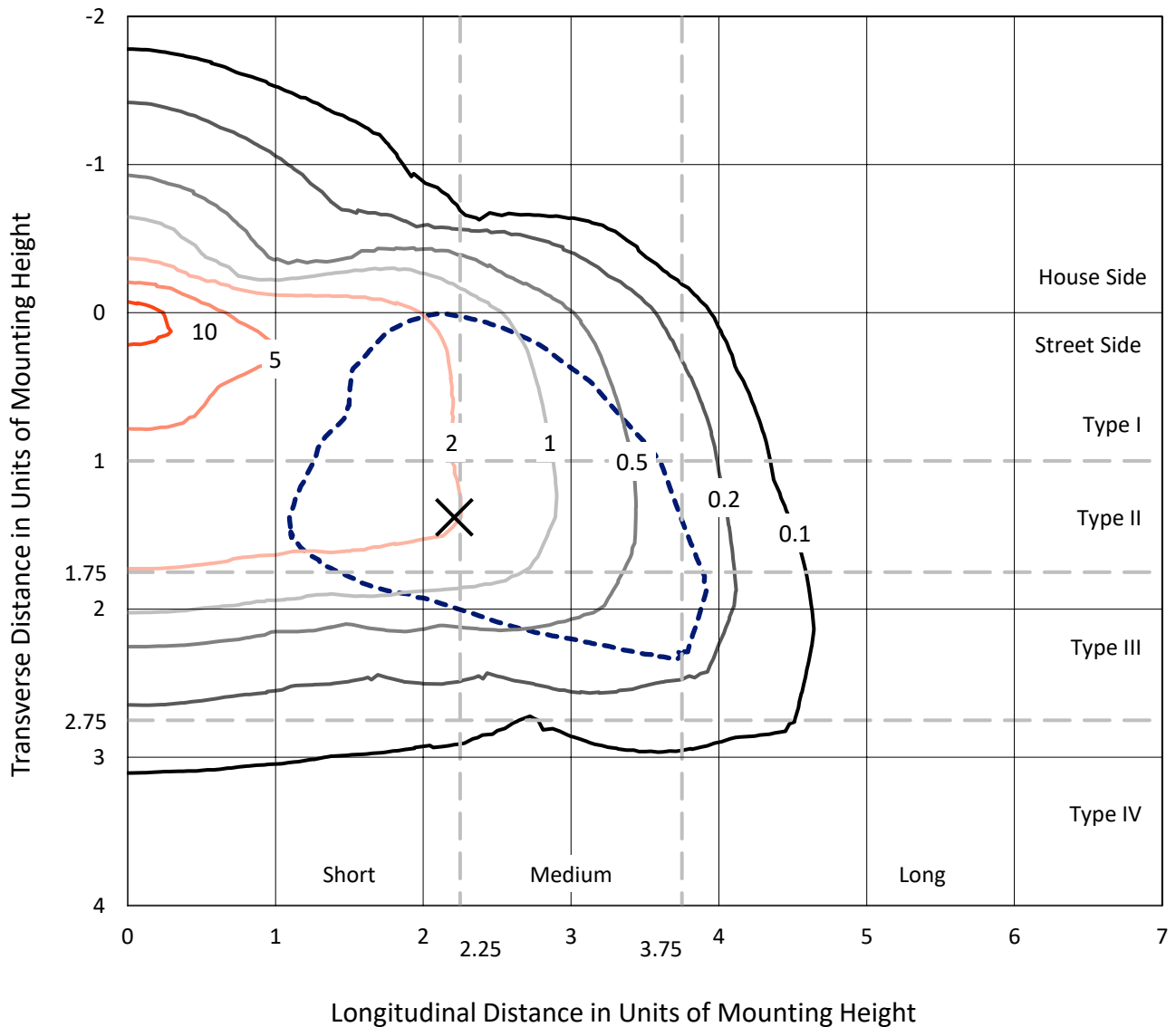
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

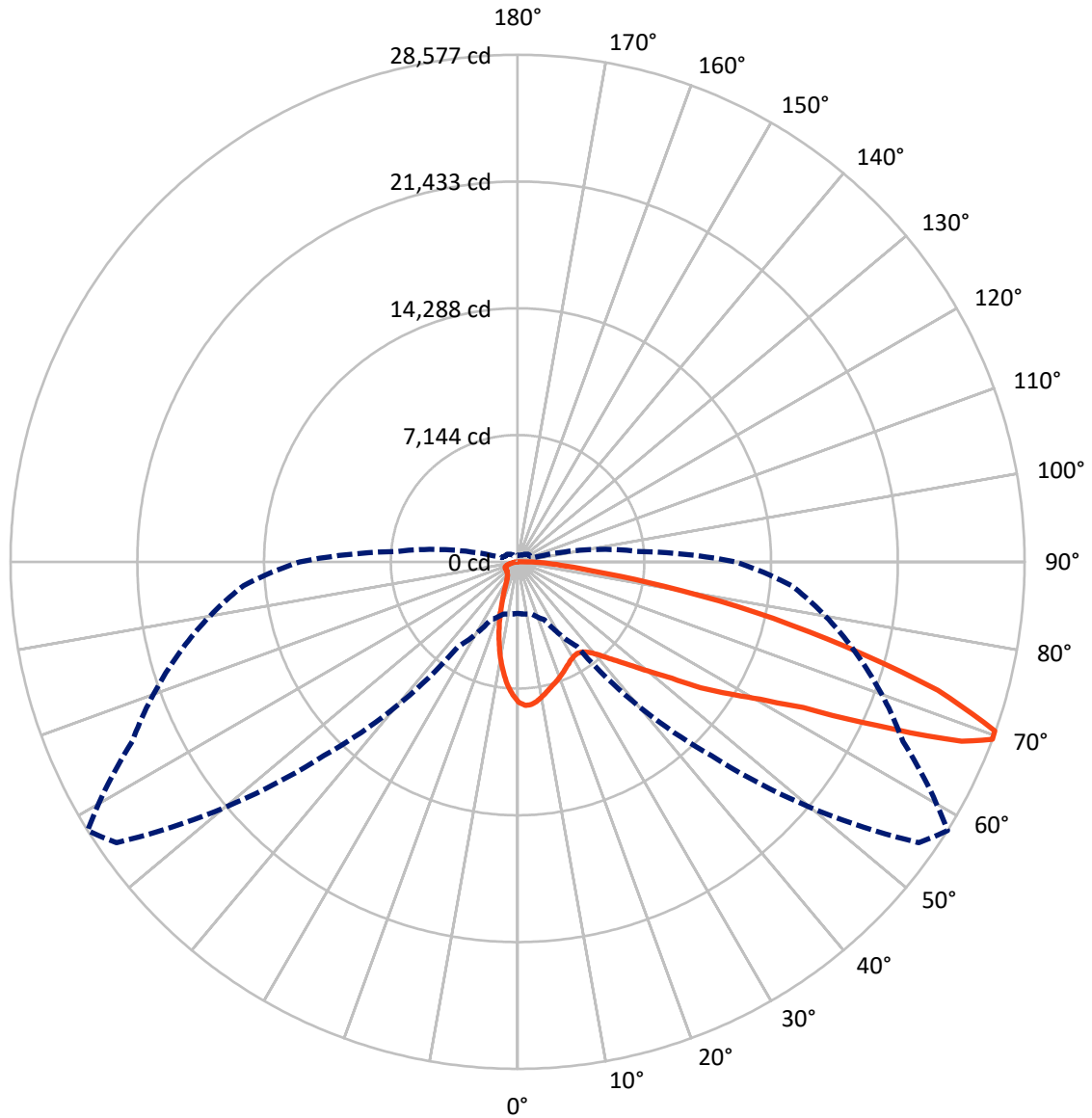
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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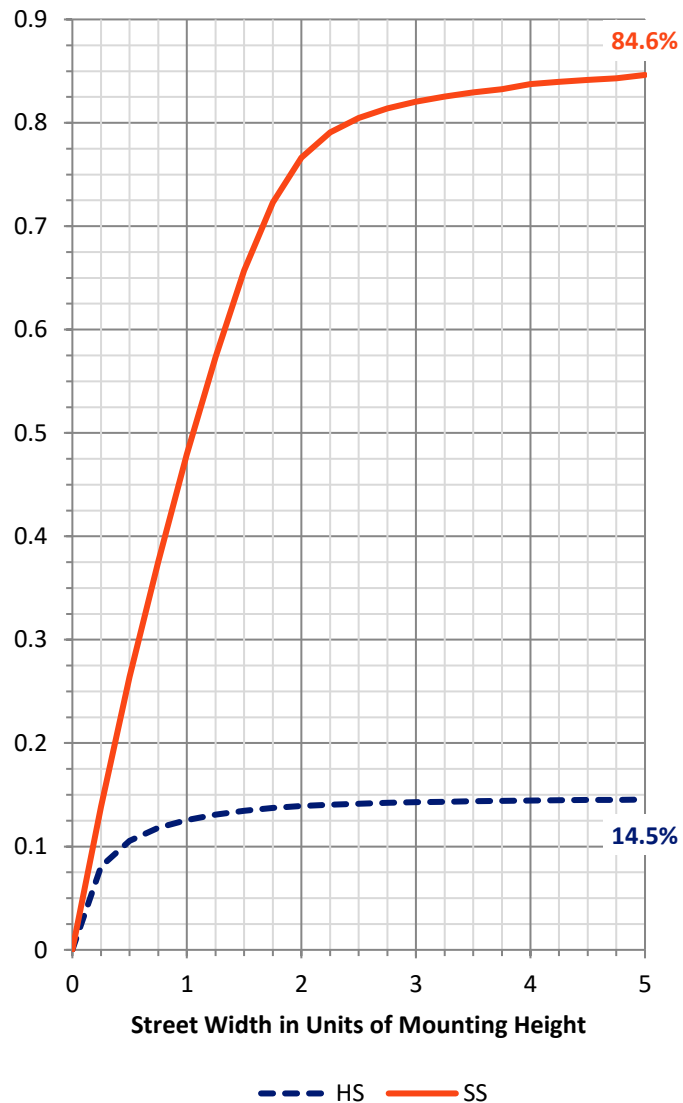
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4200.0	0.0	4200.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24459.3	0.0	24459.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	28659.4	0.0	28659.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.6	2.3
10°-20°	1476.9	5.2
20°-30°	1908.1	6.7
30°-40°	2478.3	8.6
40°-50°	3603.1	12.6
50°-60°	5749.4	20.1
60°-70°	7680.4	26.8
70°-80°	4427.5	15.4
80°-90°	663.1	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°	28659.4	100.0
0°-180°	28659.4	100.0

Coefficient of Utilization

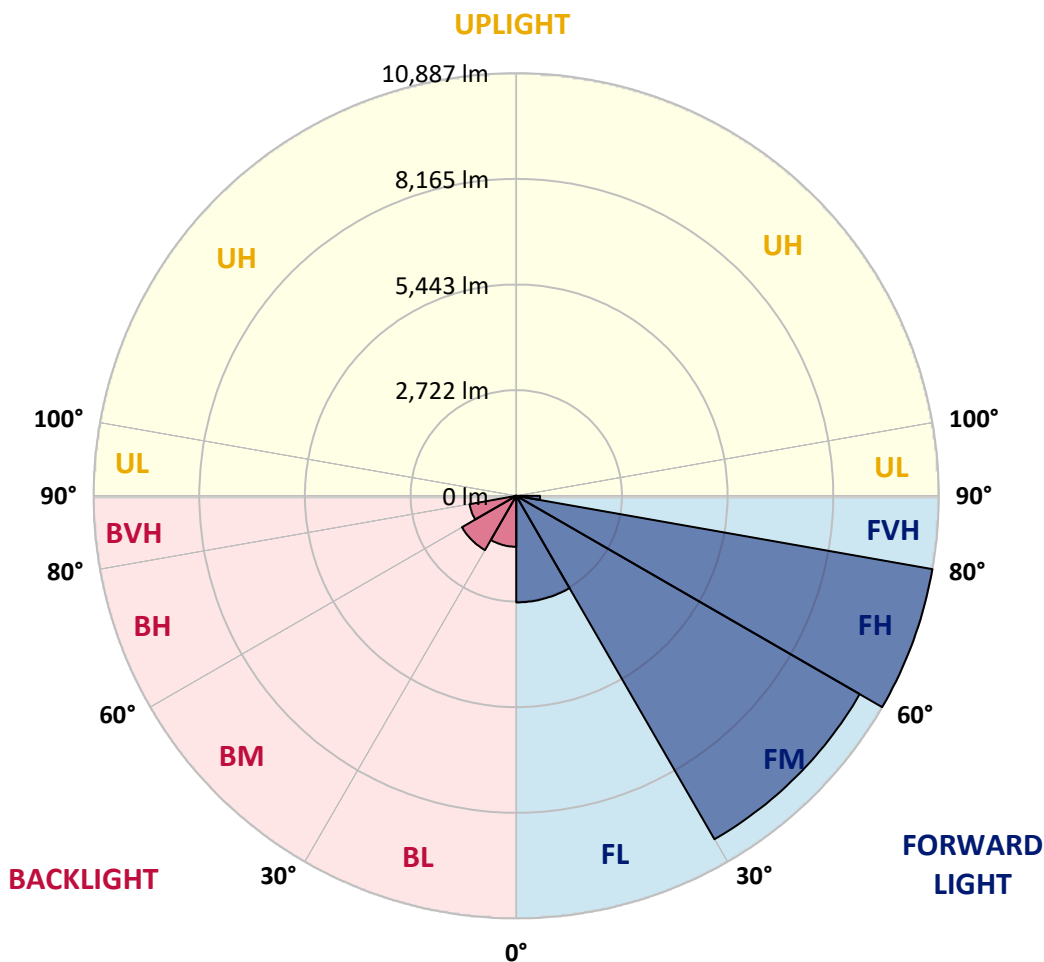


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.8	9.6			
FM (30°-60°)	10215.6	35.6			
FH (60°-80°)	10886.6	38.0			G4/12000
FVH (80°-90°)	612.3	2.1			G4/750
BL (0°-30°)	1312.8	4.6	B3/2500		
BM (30°-60°)	1615.2	5.6	B2/2500		
BH (60°-80°)	1221.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.8	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7
2.5°	8213.8	8236.2	8229.9	8221.9	8209.1	8173.9	8116.3	8106.8	8070.0	7991.7	7894.2
5°	8087.6	8106.8	8108.4	8119.6	8135.5	8129.2	8087.6	8082.8	8028.5	7922.9	7759.9
7.5°	7654.5	7680.1	7736.0	7798.3	7854.3	7907.0	7919.7	7927.8	7894.2	7772.8	7555.3
10°	7167.0	7192.6	7218.1	7310.8	7448.3	7579.4	7688.0	7702.4	7710.4	7598.5	7333.2
12.5°	6626.7	6679.5	6733.8	6871.3	7055.1	7261.2	7453.1	7483.4	7537.8	7453.1	7141.4
15°	6168.0	6222.3	6300.6	6423.7	6645.9	6943.2	7213.3	7262.9	7369.9	7326.8	6962.4
17.5°	5849.9	5869.1	5923.5	6064.1	6303.9	6617.1	6978.3	7077.5	7248.5	7237.3	6808.9
20°	5599.0	5623.0	5656.5	5742.8	5992.1	6323.0	6759.4	6887.3	7119.0	7157.3	6657.1
22.5°	5493.5	5511.1	5506.3	5552.6	5722.1	6054.5	6537.2	6689.0	7003.9	7103.0	6516.4
25°	5499.9	5515.8	5491.9	5480.7	5581.4	5817.9	6305.4	6498.8	6911.2	7066.3	6388.6
27.5°	5607.0	5618.2	5573.4	5528.7	5536.7	5670.9	6113.7	6327.8	6832.9	7082.2	6281.5
30°	5750.8	5771.6	5742.8	5688.5	5629.4	5635.7	5990.6	6201.6	6796.1	7138.2	6230.3
32.5°	5936.2	5955.4	5942.7	5899.4	5822.8	5738.1	5960.2	6155.2	6799.3	7251.7	6219.1
35°	6131.2	6169.6	6190.4	6187.2	6124.9	5977.8	6080.1	6241.5	6876.1	7441.9	6284.7
37.5°	6351.8	6383.8	6473.3	6530.8	6473.3	6302.3	6350.2	6462.1	7045.5	7716.8	6428.5
40°	6566.0	6613.9	6745.0	6924.0	6901.6	6751.4	6762.5	6836.1	7344.4	8126.0	6709.8
42.5°	6789.7	6847.3	7075.8	7341.2	7393.9	7277.2	7307.6	7373.1	7769.6	8693.3	7192.6
45°	7077.5	7146.2	7427.5	7758.4	7966.1	7894.2	7980.5	8012.4	8338.6	9431.8	7828.7
47.5°	7448.3	7528.2	7875.0	8287.4	8581.4	8647.0	8797.2	8778.1	9043.4	10306.1	8653.4
50°	8073.2	8118.0	8445.6	8866.0	9270.3	9566.1	9729.1	9759.5	9917.7	11156.4	9575.6
52.5°	8816.4	8856.4	9093.0	9460.6	9967.3	10593.8	10996.6	10897.5	10935.8	12192.1	10654.5
55°	9652.4	9719.5	9869.7	10114.3	10771.2	11693.5	12502.2	12526.2	12101.0	13183.1	11688.6
57.5°	10299.7	10413.2	10670.5	11018.9	11851.7	12916.2	14003.0	14019.1	13475.6	14241.2	12829.8
60°	9973.6	10107.9	10696.1	11544.8	13269.4	15050.0	15796.4	15705.3	14813.4	15446.3	14222.0
62.5°	8567.1	8591.1	9446.2	10772.8	13705.8	17904.6	18465.6	18080.4	16598.7	16974.3	15636.6
65°	5544.7	5701.3	6378.9	8237.9	12272.0	19488.6	23142.3	22252.1	19101.8	18708.5	16821.0
67.5°	3500.4	3460.4	3741.7	4704.0	8440.8	18093.2	27133.4	26992.8	22375.2	19803.4	16538.0
69°	2902.6	2947.4	3043.2	3605.9	5808.4	15448.0	27604.9	28576.7	23962.3	19717.1	15510.3
70°	2632.4	2653.3	2754.0	3196.7	4481.7	12938.5	26831.3	28533.5	24585.7	19355.9	14765.4
72.5°	2089.0	2087.4	2260.1	2659.6	3350.1	7386.0	22031.5	24772.6	23888.8	17674.4	12200.2
75°	1587.1	1612.7	1802.9	2250.5	3086.4	4035.8	15374.4	19077.8	19079.4	13959.9	7612.9
77.5°	1144.4	1160.4	1382.5	1889.2	2907.4	3271.8	10240.5	13683.4	12863.4	6396.6	2392.7
80°	749.6	759.2	928.6	1496.1	2621.2	3086.4	6072.1	8375.3	6067.3	1697.5	791.1
82.5°	410.8	458.8	567.4	968.6	2103.5	2851.5	3690.6	4238.8	2276.0	756.0	412.4
85°	206.2	219.0	319.7	565.8	1374.6	2359.2	2570.1	2431.1	1174.8	375.6	214.2
87.5°	60.8	76.7	132.6	219.0	557.8	1229.2	1430.5	1283.5	452.3	135.9	44.8
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°	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7	7919.7
2.5°	7854.3	7825.5	7697.6	7582.5	7477.0	7365.1	7270.9	7187.7	7195.7	7197.3	7112.6
5°	7675.2	7609.7	7366.8	7139.8	6948.0	6705.1	6497.3	6363.0	6295.9	6206.4	6238.3
7.5°	7432.3	7306.0	6968.8	6591.5	6238.3	5923.5	5581.4	5346.5	5196.2	5050.7	5069.9
10°	7181.4	6978.3	6487.6	5989.0	5531.8	5028.3	4592.1	4218.0	3939.9	3836.0	3767.2
12.5°	6924.0	6657.1	6033.7	5370.4	4739.1	4136.5	3517.9	3116.7	2809.9	2646.9	2667.6
15°	6689.0	6364.6	5560.6	4751.9	3931.9	3214.3	2597.3	2215.3	2001.1	1956.4	1981.9
17.5°	6471.7	6046.5	5117.8	4150.9	3193.5	2410.3	1951.5	1735.8	1649.5	1625.5	1623.9
20°	6247.9	5776.4	4620.8	3508.4	2488.6	1868.5	1601.5	1500.9	1484.9	1494.4	1496.1
22.5°	6021.0	5442.3	4109.3	2870.6	1981.9	1528.0	1400.2	1373.0	1385.8	1408.1	1411.4
25°	5811.6	5148.2	3617.1	2311.2	1582.4	1342.6	1280.3	1280.3	1309.0	1342.6	1344.2
27.5°	5638.9	4863.8	3126.4	1834.9	1325.0	1208.3	1187.6	1198.8	1238.7	1264.3	1265.9
30°	5496.7	4598.4	2662.8	1470.5	1165.2	1101.3	1096.4	1115.6	1144.4	1168.4	1170.0
32.5°	5389.6	4365.1	2229.7	1235.5	1054.9	1019.8	1018.1	1032.5	1048.5	1054.9	1061.3
35°	5348.0	4171.7	1833.3	1086.9	981.4	959.0	959.0	957.4	963.8	967.0	970.2
37.5°	5381.6	4023.1	1526.4	991.0	927.1	911.0	901.5	891.8	888.7	888.7	890.3
40°	5523.8	3944.7	1297.8	928.6	888.7	864.7	847.1	835.9	824.7	827.9	831.2
42.5°	5825.9	3959.1	1142.8	887.1	855.1	821.5	796.0	783.2	775.2	784.8	783.2
45°	6307.1	4102.9	1043.7	858.3	821.5	778.4	754.4	741.7	741.7	756.0	760.8
47.5°	6980.0	4377.8	991.0	835.9	796.0	744.8	720.8	711.3	714.5	738.4	740.0
50°	7801.5	4855.8	981.4	824.7	783.2	720.8	693.7	684.1	692.1	717.6	720.8
52.5°	8707.7	5471.1	1027.8	826.4	772.0	706.5	671.3	656.9	664.9	685.7	692.1
55°	9781.9	6241.5	1147.6	832.7	756.0	698.4	655.3	623.3	633.0	647.3	649.0
57.5°	10878.3	7213.3	1358.6	834.4	743.2	684.1	628.1	586.6	586.6	596.2	601.0
60°	12217.7	8271.4	1636.7	835.9	744.8	663.3	591.4	545.0	538.6	543.4	545.0
62.5°	13547.5	9156.9	1683.1	831.2	760.8	642.5	551.4	503.5	492.3	490.7	487.5
65°	14134.1	8992.3	1379.3	808.8	778.4	629.8	519.4	463.5	444.4	437.9	437.9
67.5°	13178.3	7606.5	1037.3	778.4	767.2	616.9	489.1	429.9	407.6	394.8	394.8
69°	12280.0	6765.7	931.8	757.6	738.4	596.2	469.9	412.4	385.2	370.8	366.1
70°	11586.4	6187.2	887.1	740.0	711.3	572.2	455.5	399.6	369.2	353.2	350.0
72.5°	9246.4	4854.1	776.8	672.9	605.8	481.1	404.3	359.6	330.8	313.3	308.5
75°	5328.9	2630.9	644.1	585.0	487.5	374.0	342.0	313.3	290.9	274.9	270.1
77.5°	1639.9	1016.6	466.7	461.9	358.1	289.3	273.3	262.1	246.2	228.6	225.3
80°	690.4	517.9	316.5	311.7	238.2	201.4	196.6	195.0	188.6	174.2	169.4
82.5°	378.8	292.5	220.6	191.8	143.8	116.7	121.4	123.1	118.3	103.9	94.3
85°	185.4	159.8	107.1	86.3	65.5	41.6	39.9	47.9	44.8	31.9	35.2
87.5°	36.7	44.8	28.7	12.8	6.4	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)