

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: P454282

Luminaire Tested: **GALN-SA5B-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17163 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

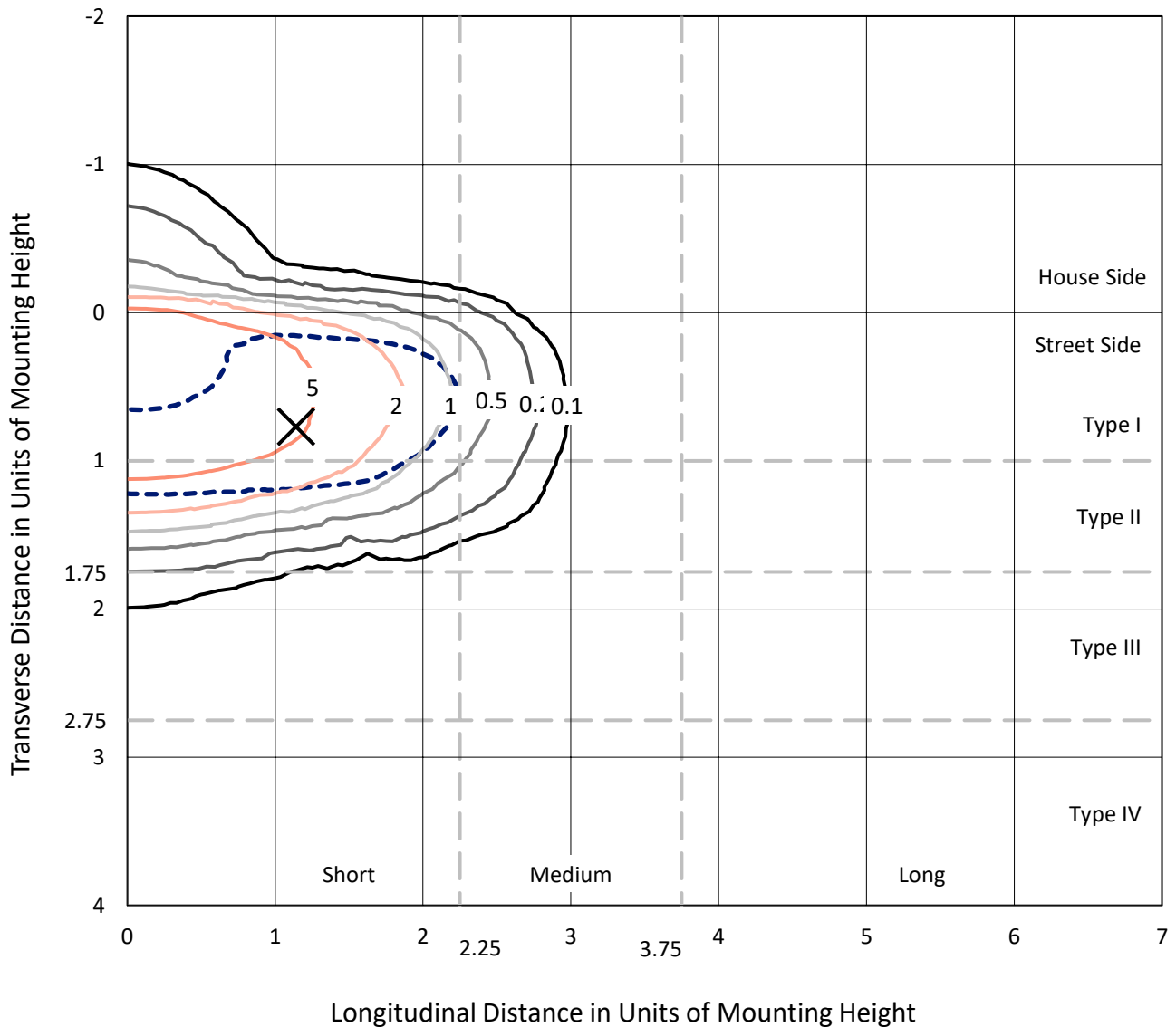
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

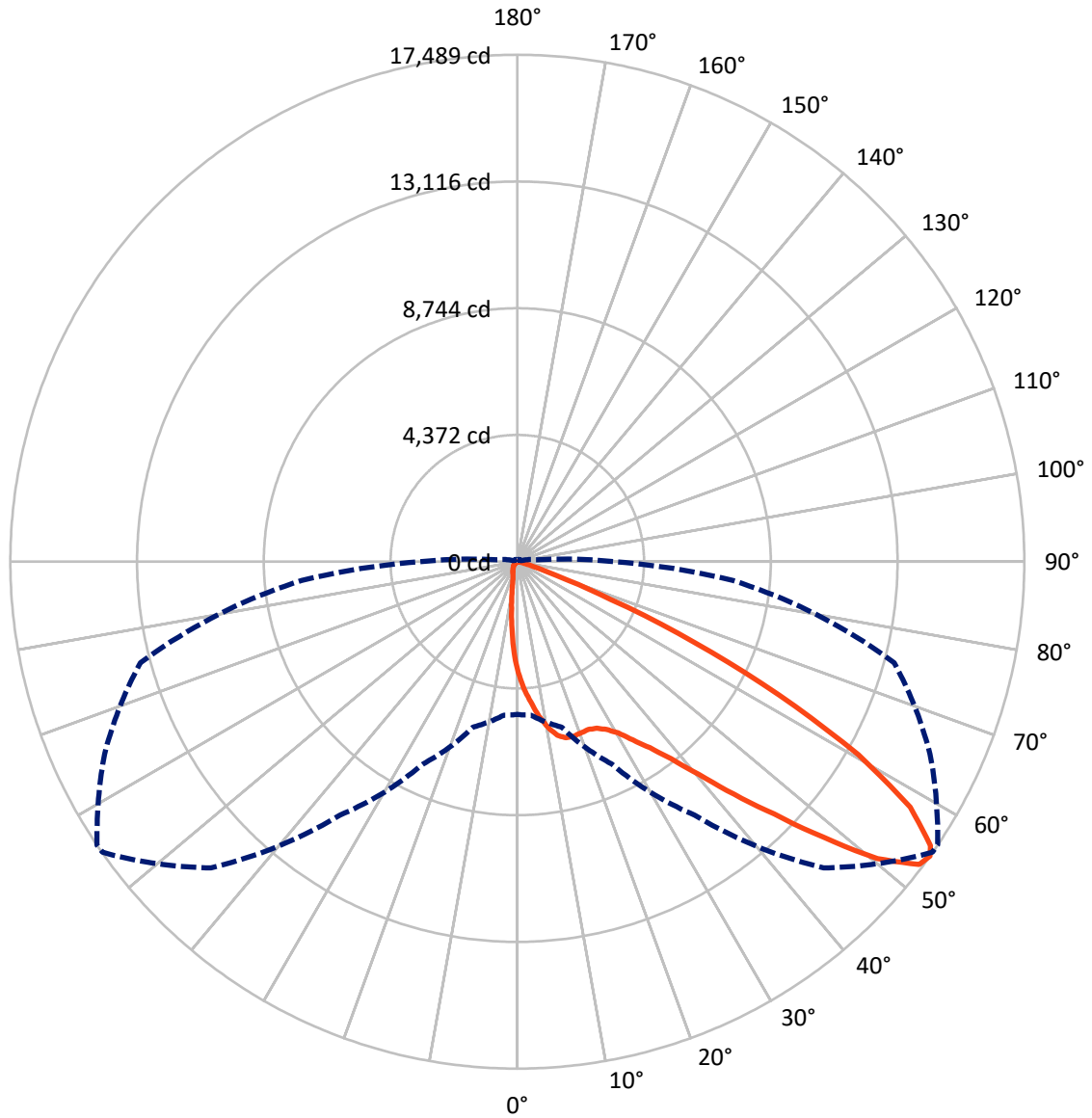
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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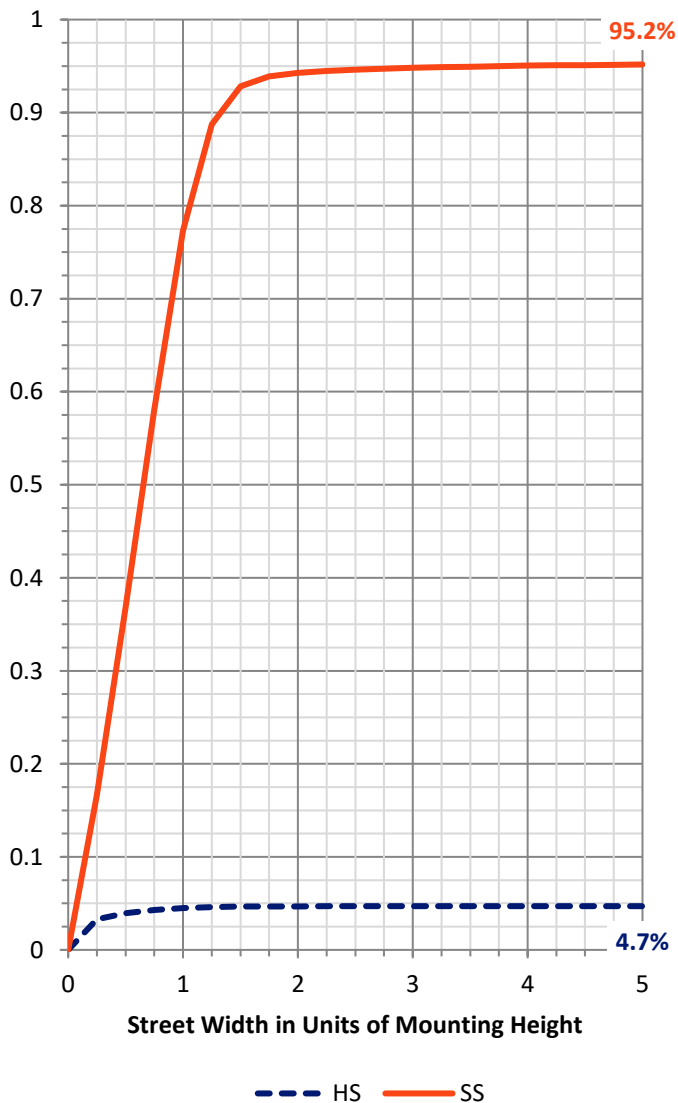
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	811.6	0.0	811.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16351.4	0.0	16351.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	17163.0	0.0	17163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	2.0
10°-20°	910.9	5.3
20°-30°	1577.6	9.2
30°-40°	2723.2	15.9
40°-50°	4634.9	27.0
50°-60°	4586.8	26.7
60°-70°	2093.5	12.2
70°-80°	268.9	1.6
80°-90°	30.3	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°	17163.0	100.0
0°-180°	17163.0	100.0

Coefficient of Utilization



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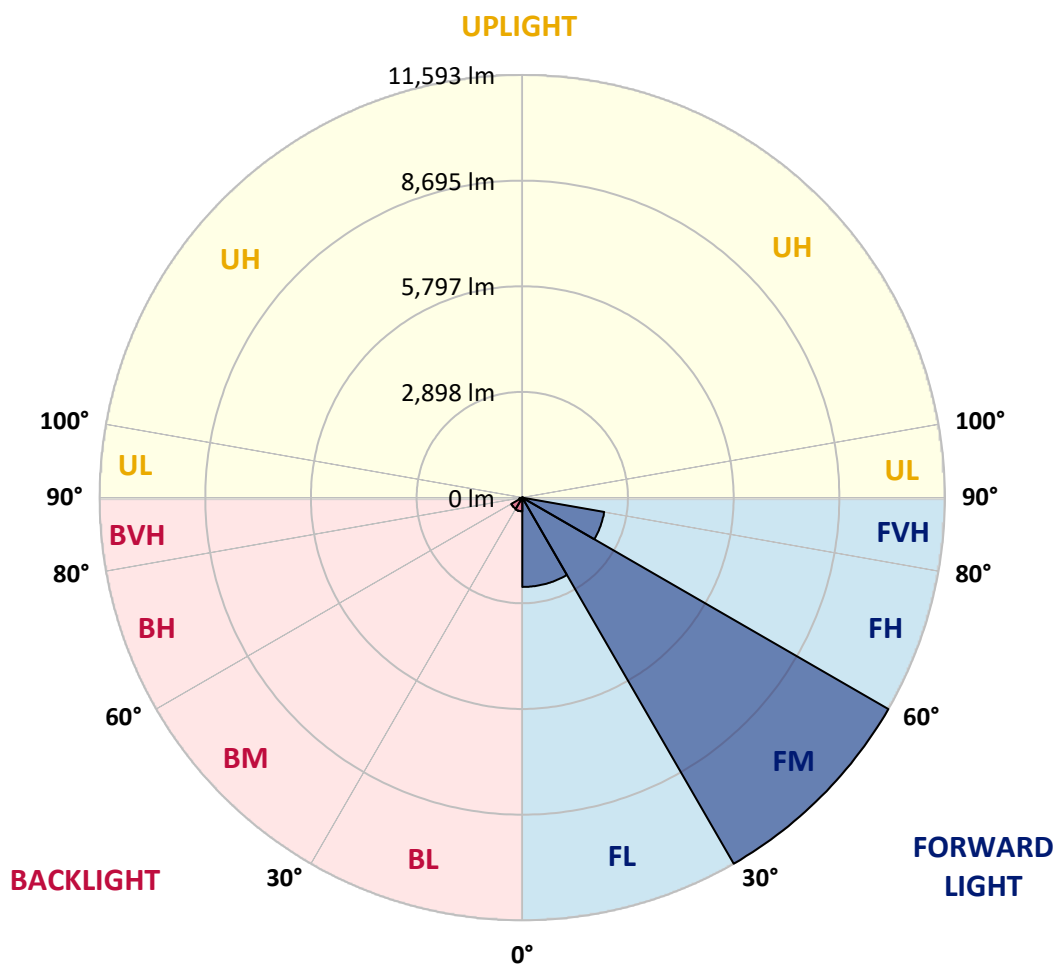
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.1	14.3			
FM (30°-60°)	11593.2	67.5			
FH (60°-80°)	2281.1	13.3			G2/5000
FVH (80°-90°)	27.0	0.2			G1/100
BL (0°-30°)	375.3	2.2	B1/500		
BM (30°-60°)	351.7	2.0	B1/1000		
BH (60°-80°)	81.3	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1
2.5°	4846.0	4812.4	4766.1	4730.2	4645.7	4524.1	4395.6	4395.6	4271.7	4099.1	3923.1
5°	5589.4	5567.4	5522.3	5429.6	5334.7	5164.5	4906.2	4861.1	4639.9	4327.3	3998.4
7.5°	5891.6	5902.1	5904.4	5880.1	5834.9	5667.0	5411.1	5379.8	5026.7	4607.5	4096.8
10°	5602.2	5653.1	5702.9	5803.6	5946.1	5986.6	5841.9	5809.4	5462.0	4891.2	4203.4
12.5°	5171.4	5199.2	5227.0	5385.6	5671.6	5999.3	6151.0	6149.9	5855.7	5173.7	4338.8
15°	4971.1	4995.4	4997.7	5068.3	5316.1	5793.2	6283.0	6300.4	6240.2	5522.3	4484.7
17.5°	5012.8	5032.4	5016.2	5033.6	5163.3	5566.3	6268.0	6325.9	6551.7	5856.9	4616.7
20°	5284.9	5323.1	5260.6	5211.9	5251.3	5506.0	6217.0	6298.1	6771.7	6183.4	4737.2
22.5°	5773.5	5794.4	5715.6	5582.5	5513.0	5632.3	6203.1	6283.0	6959.3	6450.9	4806.6
25°	6316.6	6309.7	6222.8	6073.4	5927.5	5887.0	6294.6	6366.4	7114.4	6691.8	4827.5
27.5°	6859.7	6880.5	6734.6	6549.4	6374.5	6269.1	6499.6	6552.8	7289.3	6966.2	4853.0
30°	7490.8	7457.2	7313.6	7101.7	6901.4	6754.3	6829.6	6844.6	7530.1	7329.8	4920.1
32.5°	8311.8	8219.1	8058.2	7687.6	7544.0	7295.1	7313.6	7332.1	7823.1	7689.9	5001.2
35°	9425.7	9421.1	9106.1	8607.0	8257.3	7948.2	7867.1	7882.2	8266.6	8224.9	5180.7
37.5°	10766.6	10785.1	10426.2	9923.6	9279.8	8788.8	8622.1	8624.4	8940.5	8963.7	5453.9
40°	11858.6	11907.2	11693.0	11353.7	10718.0	9950.3	9670.0	9644.6	9887.7	9858.8	5844.2
42.5°	12328.7	12373.8	12453.7	12571.8	12222.1	11588.8	10927.6	10962.3	11036.4	10833.8	6281.9
45°	12098.2	12170.0	12483.8	13213.4	13542.2	13329.1	12540.6	12419.0	12105.2	11893.3	6721.9
47.5°	11138.3	11313.2	11837.7	13052.4	14203.4	14923.6	14360.9	14199.9	13175.1	12666.8	7002.1
50°	9560.0	9570.4	10301.1	11853.9	13860.6	15929.9	16219.4	16099.0	14172.1	13101.0	7143.4
52.5°	6930.3	7158.4	7827.7	9626.0	12376.2	15777.1	17404.0	17354.2	15200.4	13323.4	7347.2
54°	5268.7	5312.7	5907.9	7692.3	10670.5	14937.5	17476.9	17488.5	15711.0	13457.7	7467.6
55°	4319.1	4213.8	4839.1	6552.8	9506.8	14195.3	17238.4	17294.0	15940.3	13527.2	7556.8
57.5°	2047.3	2048.4	2526.6	3456.5	5954.2	11022.5	15780.5	15977.4	15965.8	13646.4	7831.2
60°	1036.4	1043.3	1148.7	1595.7	2941.2	7327.5	13047.8	13516.7	14737.2	13663.8	7921.5
62.5°	724.9	716.8	699.4	767.7	1237.8	3724.0	9714.0	10121.6	12520.9	13002.6	7634.4
65°	620.7	603.3	554.7	544.2	625.3	1483.3	6050.3	6714.9	9560.0	11258.7	6816.8
67.5°	530.3	523.4	479.4	452.8	442.3	646.1	3121.8	3471.5	6534.3	8092.9	5163.3
70°	450.4	447.0	420.3	386.8	357.8	386.8	1157.9	1434.7	3641.7	4357.4	2436.3
72.5°	365.9	369.4	374.0	331.2	301.1	274.4	494.4	575.5	1523.9	1557.4	852.3
75°	320.8	317.3	317.3	288.3	251.3	203.8	272.1	293.0	466.7	433.1	198.0
77.5°	225.8	217.7	254.7	237.4	209.6	144.7	155.2	164.4	193.4	165.6	92.6
80°	156.3	156.3	163.3	213.1	188.7	105.4	95.0	101.9	114.6	98.4	53.3
82.5°	88.0	90.3	106.5	113.5	110.0	70.6	62.5	63.7	76.4	67.2	33.6
85°	10.4	17.4	61.4	60.2	45.2	31.3	34.7	35.9	47.5	41.7	19.7
87.5°	1.2	2.3	12.7	16.2	11.6	12.7	12.7	12.7	16.2	18.5	13.9
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°	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1
2.5°	3828.2	3740.2	3530.6	3287.4	3132.3	2879.8	2666.8	2512.7	2474.5	2400.4	2422.4
5°	3823.5	3640.6	3213.3	2761.7	2280.0	1921.0	1653.6	1442.8	1350.2	1288.8	1246.0
7.5°	3825.9	3539.8	2854.3	2135.3	1559.8	1207.7	959.9	831.4	745.7	709.8	714.5
10°	3832.8	3426.4	2437.5	1581.8	1052.6	780.5	628.8	567.4	538.4	533.8	532.7
12.5°	3849.0	3302.5	2039.1	1174.2	736.5	567.4	509.5	488.7	479.4	479.4	475.9
15°	3866.4	3165.8	1708.0	873.1	567.4	487.5	460.9	450.4	444.7	444.7	443.5
17.5°	3866.4	3008.4	1398.8	677.4	488.7	448.1	427.3	413.4	408.8	408.8	407.6
20°	3842.1	2825.4	1124.4	545.4	443.5	411.1	390.2	375.2	369.4	367.1	365.9
22.5°	3757.5	2581.1	895.1	469.0	406.4	378.6	352.0	334.6	330.0	327.7	328.9
25°	3607.0	2305.5	708.7	412.2	372.9	339.3	316.1	303.4	298.8	298.8	299.9
27.5°	3451.8	2017.1	561.6	369.4	332.3	302.2	283.7	275.6	274.4	277.9	279.1
30°	3308.3	1727.7	455.1	334.6	296.4	271.0	258.2	255.9	255.9	257.1	258.2
32.5°	3148.5	1474.1	381.0	304.5	267.5	245.5	238.5	238.5	240.9	240.9	243.2
35°	3047.7	1256.4	334.6	275.6	245.5	227.0	222.3	223.5	227.0	231.6	233.9
37.5°	2993.3	1082.7	304.5	252.4	224.6	211.9	207.3	209.6	217.7	225.8	227.0
40°	2997.9	951.8	280.2	232.7	208.4	194.5	191.1	198.0	206.1	214.2	215.4
42.5°	3048.9	854.6	257.1	209.6	194.5	174.9	173.7	180.6	184.1	192.2	193.4
45°	3109.1	783.9	232.7	185.3	169.1	151.7	152.8	158.6	163.3	176.0	178.3
47.5°	3127.6	735.3	205.0	157.5	139.0	133.2	134.3	137.8	147.1	158.6	159.8
50°	3148.5	705.2	178.3	133.2	118.1	117.0	118.1	120.4	126.2	130.8	129.7
52.5°	3237.6	704.0	156.3	115.8	100.7	103.1	104.2	103.1	98.4	91.5	89.2
54°	3321.0	707.5	145.9	107.7	92.6	96.1	95.0	89.2	77.6	70.6	67.2
55°	3388.2	711.0	140.1	101.9	88.0	89.2	90.3	78.7	63.7	56.7	54.4
57.5°	3520.2	702.9	126.2	89.2	77.6	73.0	71.8	52.1	34.7	30.1	27.8
60°	3454.2	634.6	114.6	76.4	66.0	59.1	48.6	28.9	17.4	12.7	12.7
62.5°	3194.8	538.4	101.9	62.5	54.4	45.2	25.5	16.2	8.1	4.6	3.5
65°	2857.8	452.8	91.5	49.8	42.8	28.9	13.9	10.4	3.5	0.0	0.0
67.5°	2124.8	335.8	77.6	39.4	32.4	18.5	9.3	5.8	1.2	0.0	0.0
70°	984.3	205.0	66.0	30.1	23.2	13.9	6.9	3.5	0.0	0.0	0.0
72.5°	282.5	128.5	54.4	22.0	16.2	11.6	5.8	2.3	1.2	0.0	0.0
75°	98.4	103.1	40.5	16.2	12.7	8.1	4.6	2.3	1.2	0.0	0.0
77.5°	59.1	83.4	25.5	13.9	10.4	6.9	4.6	2.3	1.2	1.2	0.0
80°	33.6	55.6	16.2	11.6	9.3	5.8	3.5	2.3	1.2	1.2	0.0
82.5°	18.5	26.6	12.7	10.4	8.1	5.8	3.5	2.3	1.2	1.2	1.2
85°	15.1	13.9	10.4	9.3	6.9	4.6	3.5	1.2	0.0	0.0	0.0
87.5°	11.6	9.3	9.3	9.3	6.9	4.6	3.5	1.2	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)