

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: P648043

Luminaire Tested: **GALN-SA7A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14584.9 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

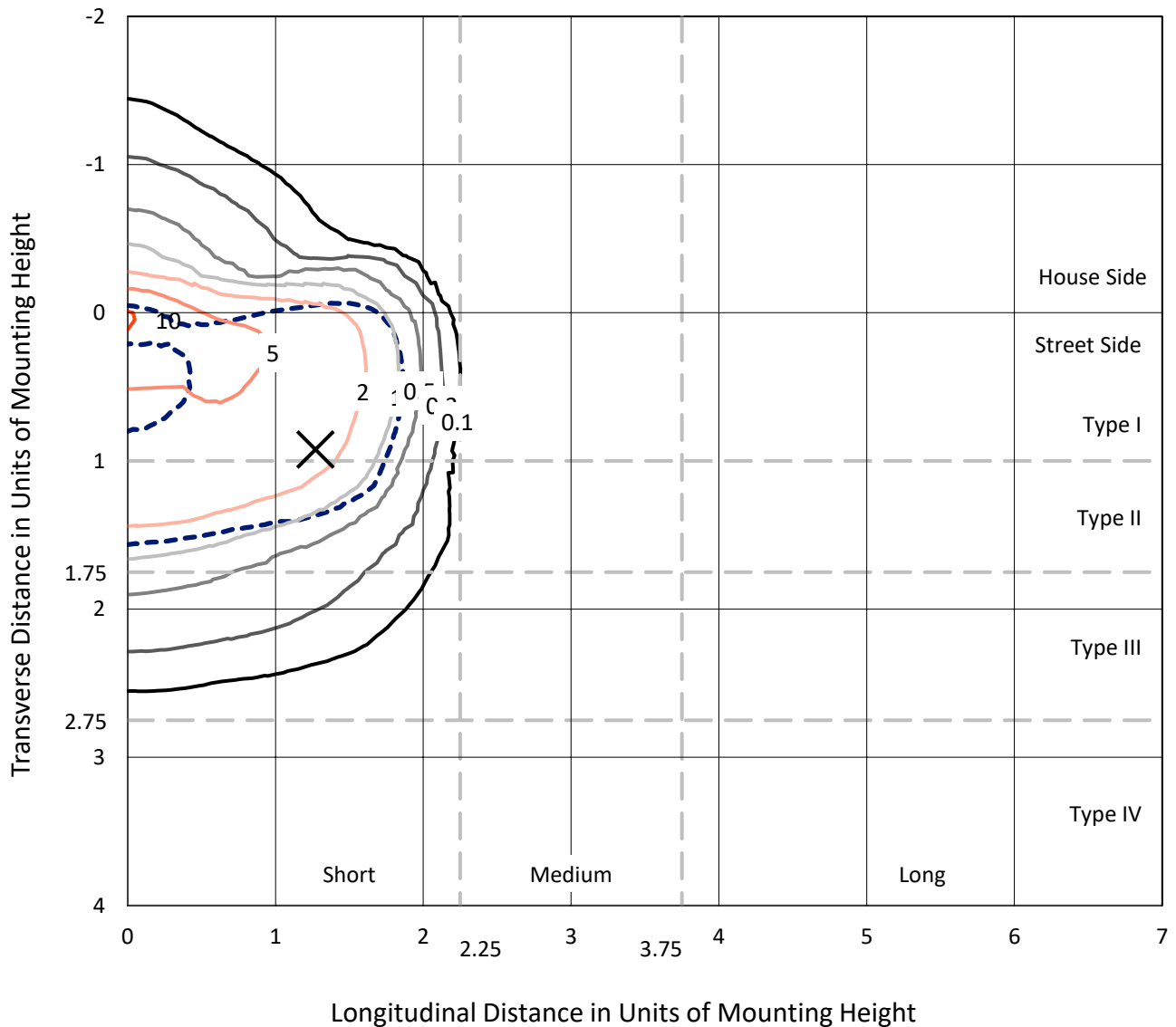
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

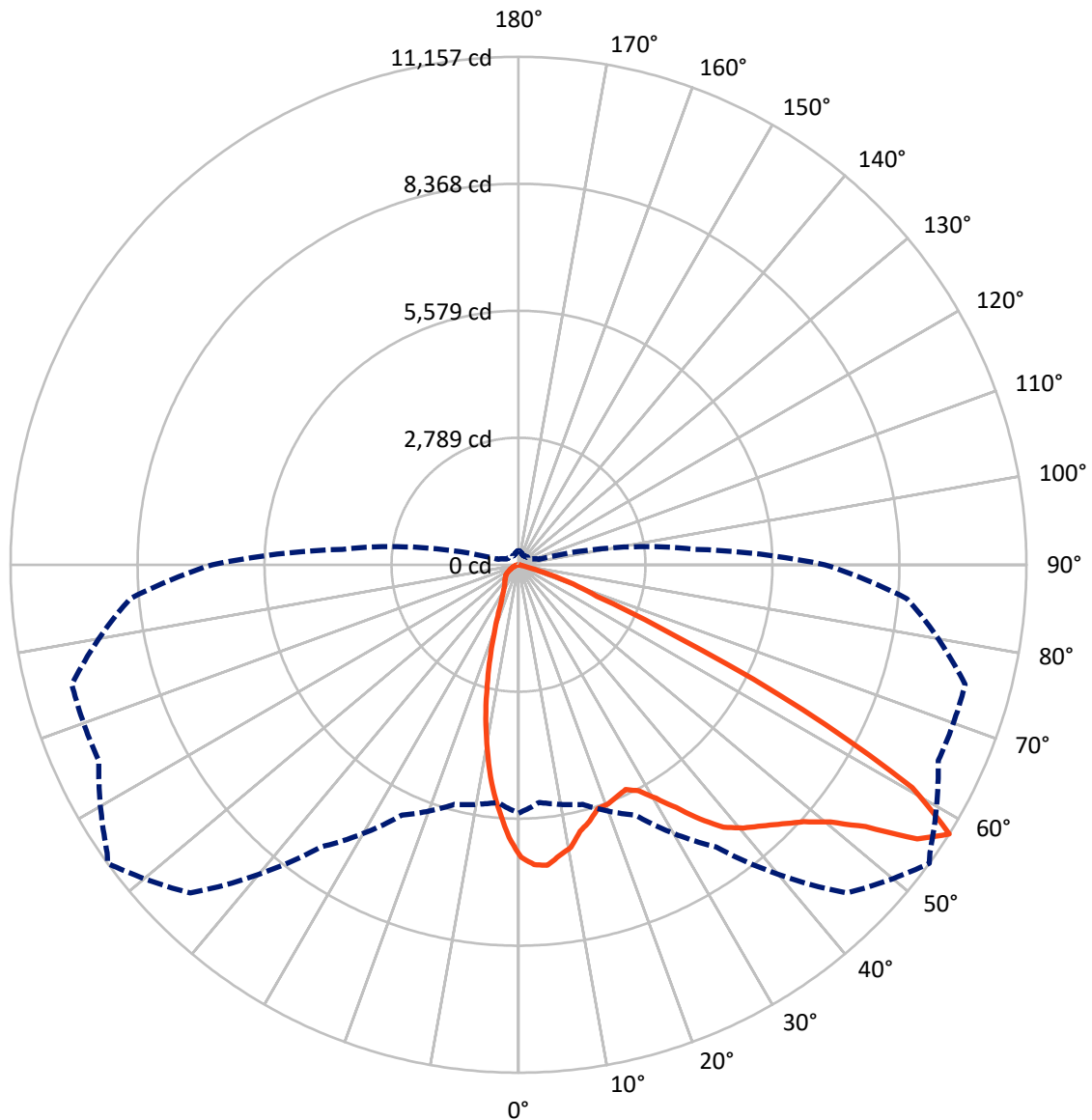
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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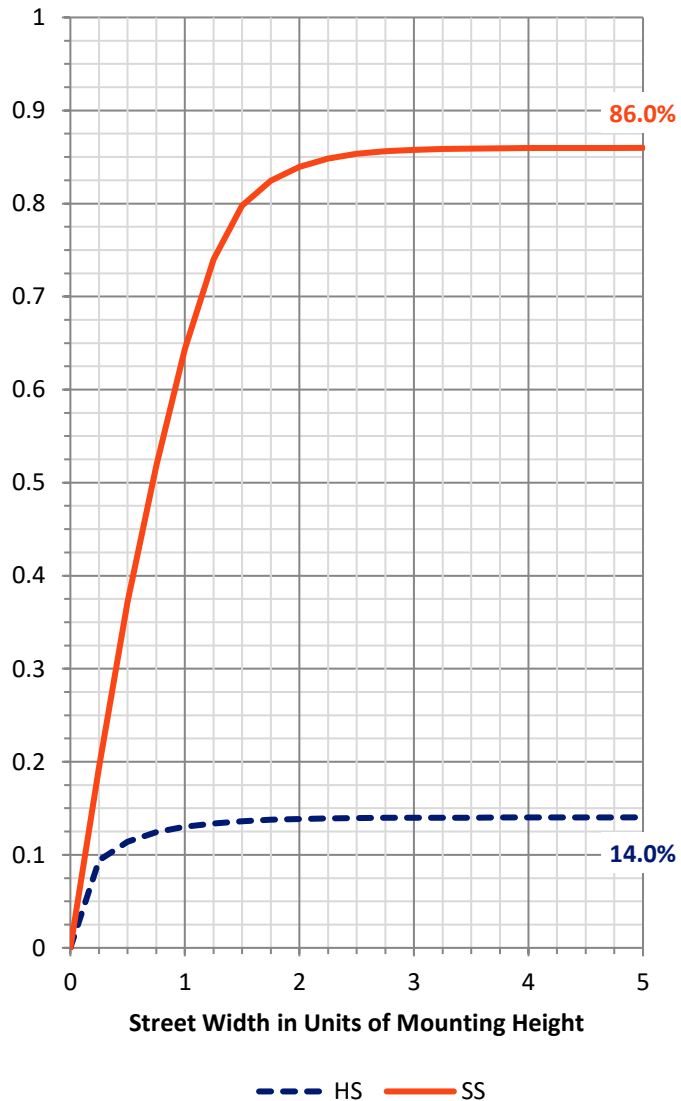
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2061.1	0.0	2061.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12523.8	0.0	12523.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	14584.9	0.0	14584.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	3.7
10°-20°	1147.9	7.9
20°-30°	1521.1	10.4
30°-40°	2210.7	15.2
40°-50°	3278.1	22.5
50°-60°	4099.1	28.1
60°-70°	1616.9	11.1
70°-80°	161.0	1.1
80°-90°	12.5	0.1
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°	14584.9	100.0
0°-180°	14584.9	100.0

Coefficient of Utilization



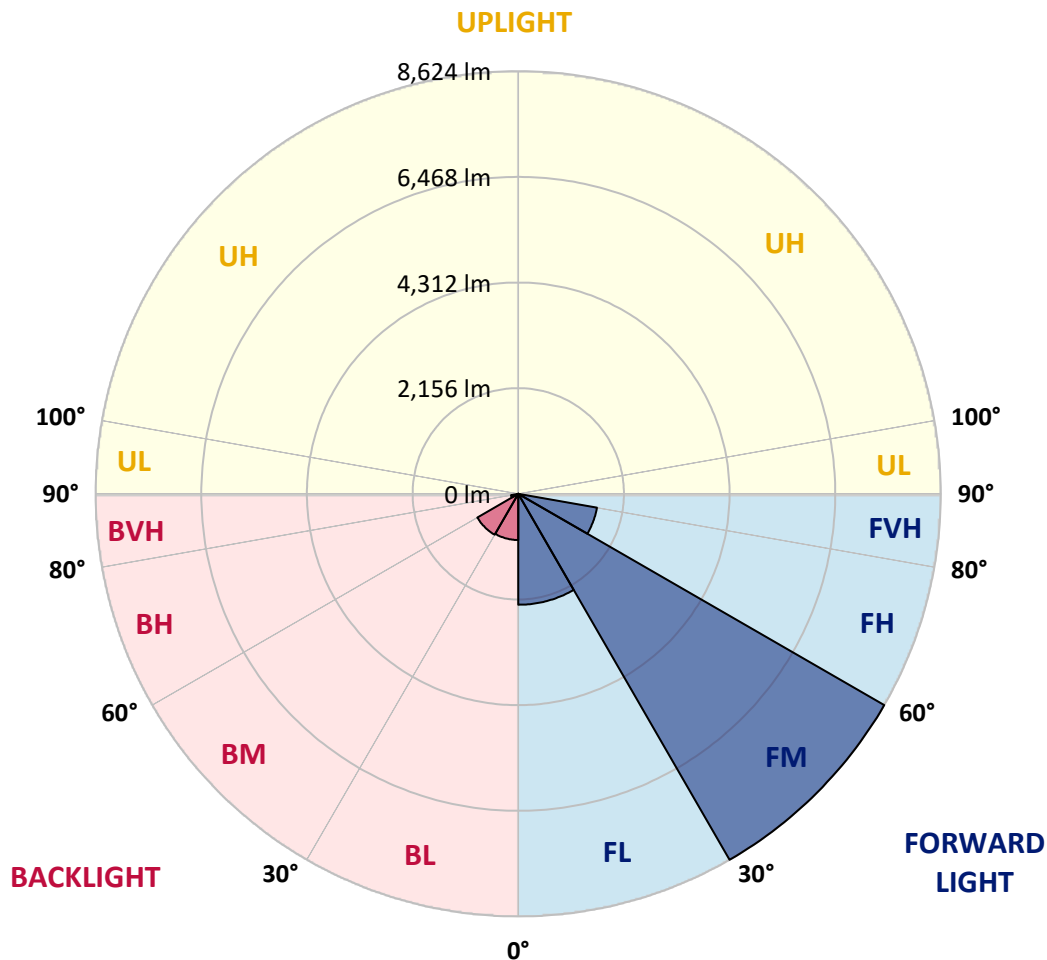
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.0	15.5			
FM (30°-60°)	8624.0	59.1			
FH (60°-80°)	1630.1	11.2			G1/1800
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	942.6	6.5	B2/1000		
BM (30°-60°)	963.8	6.6	B1/1000		
BH (60°-80°)	147.8	1.0	B1/500		G1/500
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8
2.5°	6799.1	6728.6	6734.0	6709.6	6677.1	6701.5	6595.8	6620.1	6617.4	6473.7	6378.8
5°	6628.3	6704.2	6625.6	6690.7	6628.3	6696.1	6631.0	6582.1	6503.5	6397.7	6221.5
7.5°	6338.1	6264.9	6286.6	6367.9	6381.4	6533.4	6452.0	6514.3	6481.8	6273.0	6031.6
10°	5755.0	5738.7	5847.2	5955.7	6088.5	6251.3	6313.6	6278.4	6254.0	6175.4	5852.6
12.5°	5307.5	5353.6	5350.9	5529.9	5755.0	5847.2	6009.9	6004.5	6140.1	5993.6	5684.5
15°	4881.7	4906.1	5020.0	5131.2	5380.7	5643.8	5844.5	5871.6	6034.3	5931.3	5554.3
17.5°	4621.3	4586.1	4675.6	4808.5	5063.4	5407.9	5630.2	5695.3	5917.7	5896.0	5405.1
20°	4363.7	4363.7	4436.9	4594.3	4827.4	5215.2	5611.2	5592.3	5917.7	5855.4	5245.1
22.5°	4276.9	4320.3	4339.3	4458.6	4735.3	5068.8	5529.9	5565.2	5963.8	5836.3	5174.6
25°	4396.2	4339.3	4344.7	4439.6	4700.0	4998.4	5470.2	5548.9	6047.9	5931.3	5117.7
27.5°	4415.3	4472.2	4488.5	4553.5	4727.1	5020.0	5619.4	5779.4	6256.7	6153.7	5133.9
30°	4580.6	4637.6	4634.9	4746.1	4865.4	5196.3	5953.0	5985.5	6687.9	6433.0	5234.3
32.5°	4781.4	4841.1	4860.0	4990.2	5085.1	5519.1	6359.8	6443.9	7102.9	6872.4	5497.4
35°	5030.9	5009.2	5095.9	5226.1	5429.6	5991.0	6856.1	6997.1	7550.4	7441.9	5768.5
37.5°	5342.7	5315.6	5399.7	5611.2	5887.8	6549.6	7314.4	7406.6	7875.8	7970.7	6270.3
40°	5562.4	5573.3	5828.2	6113.0	6405.9	7081.2	7604.6	7694.1	8103.7	8464.3	6649.9
42.5°	5928.6	5996.4	6302.8	6649.9	6956.4	7479.8	7840.6	7927.3	8209.4	8860.3	7162.6
45°	6460.1	6430.3	6769.3	7157.1	7496.1	7894.8	8119.9	8090.0	8271.8	9253.6	7485.2
47.5°	7143.5	7148.9	7374.1	7705.0	8057.5	8255.5	8431.8	8326.0	8402.0	9668.5	7916.5
50°	7610.1	7650.7	7832.4	8171.5	8347.7	8651.4	8876.6	8811.5	8787.1	9918.0	8187.7
52.5°	7729.4	7851.4	7949.0	8372.1	8784.3	9264.4	9551.9	9690.2	9256.2	10002.0	8532.1
55°	6828.9	6937.5	7281.9	7862.3	8949.8	10235.3	10631.3	10634.0	9869.2	10376.3	8773.5
57.5°	5459.4	5239.7	5451.2	6066.8	7566.7	10194.7	11157.4	11030.0	10175.6	10156.7	8564.7
60°	3775.2	3721.0	3734.5	3978.6	5237.0	8109.1	9942.4	10107.8	9370.2	8803.3	6780.2
62.5°	2991.4	2945.3	2885.6	2858.5	3251.7	5052.5	7013.4	7246.6	6552.3	5708.9	4019.3
65°	2343.2	2316.1	2324.3	2432.7	2430.0	2866.6	3834.8	3739.9	2994.1	2213.1	1263.8
67.5°	1581.1	1621.8	1654.3	1982.5	2150.7	1996.1	1852.3	1798.1	973.7	409.5	279.4
70°	889.6	895.0	930.2	1239.4	1632.6	1548.6	1277.4	1277.4	485.5	149.2	160.0
72.5°	485.5	469.2	436.7	534.2	726.9	737.7	569.6	496.3	143.8	97.6	89.5
75°	235.9	233.3	200.7	165.4	157.3	130.2	100.4	92.2	65.1	62.4	54.3
77.5°	48.8	46.1	24.4	24.4	27.1	29.8	38.0	38.0	46.1	46.1	38.0
80°	0.0	0.0	2.7	10.9	18.9	27.1	32.6	32.6	38.0	38.0	29.8
82.5°	0.0	0.0	2.7	8.1	16.3	24.4	29.8	32.6	38.0	40.7	32.6
85°	0.0	0.0	0.0	5.4	13.5	18.9	16.3	16.3	13.5	10.9	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8	6424.8
2.5°	6329.9	6324.5	6199.8	6129.2	6001.8	5890.6	5801.1	5736.0	5736.0	5695.3	5657.3
5°	6150.9	6104.8	5839.1	5668.2	5426.8	5247.8	5125.8	5030.9	4881.7	4922.4	4762.4
7.5°	5928.6	5812.0	5459.4	5199.0	4865.4	4610.5	4350.1	4119.6	3897.2	3796.8	3851.1
10°	5689.9	5486.5	5011.9	4599.7	4184.7	3718.2	3414.5	3045.6	2817.9	2804.2	2744.6
12.5°	5437.7	5207.2	4629.5	4059.9	3514.8	2953.4	2489.7	2145.3	1990.6	1819.8	1852.3
15°	5247.8	4906.1	4203.7	3517.5	2793.4	2226.6	1760.1	1494.4	1347.9	1307.2	1293.7
17.5°	5041.7	4675.6	3769.8	2939.9	2191.3	1602.8	1266.5	1139.0	1082.1	1082.1	1074.0
20°	4827.4	4415.3	3338.6	2402.9	1643.5	1196.0	1014.3	973.7	970.9	968.2	968.2
22.5°	4686.4	4116.9	2948.0	1909.3	1239.4	957.4	881.4	865.1	876.0	908.5	908.5
25°	4537.3	3829.4	2516.8	1472.7	960.0	821.8	778.4	789.2	816.4	846.2	835.3
27.5°	4385.4	3642.3	2110.0	1155.3	786.5	718.7	702.4	726.9	756.7	783.8	775.6
30°	4350.1	3441.6	1724.9	876.0	675.3	626.5	637.4	659.1	688.9	699.7	710.6
32.5°	4404.4	3284.3	1413.0	718.7	588.5	575.0	575.0	585.8	604.8	629.2	621.1
35°	4558.9	3194.8	1117.3	623.7	539.7	526.2	523.4	534.2	545.1	553.3	545.1
37.5°	4794.9	3124.3	914.0	553.3	507.1	485.5	480.1	477.3	488.2	490.9	496.3
40°	5095.9	3162.2	775.6	509.9	474.6	450.2	433.9	433.9	433.9	442.1	444.7
42.5°	5421.4	3213.8	669.9	485.5	444.7	414.9	398.7	393.2	398.7	409.5	406.8
45°	5763.1	3314.1	602.0	447.5	417.7	379.7	358.0	352.6	366.1	387.8	385.1
47.5°	6083.1	3457.9	550.5	423.1	390.6	355.2	328.2	322.8	347.2	377.0	379.7
50°	6403.1	3707.3	531.6	404.1	371.5	330.9	306.5	301.1	328.2	366.1	374.3
52.5°	6772.0	3975.8	518.0	379.7	349.8	311.9	284.8	279.4	309.2	358.0	360.7
55°	7013.4	4203.7	507.1	336.3	309.2	282.0	260.3	257.6	290.2	333.6	344.4
57.5°	6731.3	3886.3	469.2	292.9	263.1	249.5	230.5	230.5	257.6	298.3	306.5
60°	5104.1	2557.4	333.6	235.9	222.4	214.2	206.1	206.1	227.8	257.6	260.3
62.5°	2988.7	1377.7	214.2	189.9	189.9	181.7	168.1	168.1	189.9	206.1	208.8
65°	886.8	442.1	173.6	162.7	160.0	146.4	132.9	130.2	146.4	154.6	151.9
67.5°	254.9	203.4	143.8	135.6	132.9	111.2	103.0	100.4	103.0	97.6	94.9
70°	151.9	138.3	111.2	113.9	100.4	81.4	73.2	70.5	65.1	56.9	51.5
72.5°	84.1	84.1	81.4	86.8	70.5	54.3	46.1	38.0	29.8	24.4	21.7
75°	51.5	54.3	56.9	59.7	46.1	35.2	29.8	18.9	10.9	5.4	5.4
77.5°	35.2	38.0	40.7	43.4	38.0	32.6	24.4	13.5	2.7	0.0	0.0
80°	27.1	29.8	35.2	38.0	40.7	43.4	32.6	13.5	2.7	0.0	0.0
82.5°	29.8	32.6	40.7	38.0	38.0	38.0	29.8	13.5	2.7	0.0	0.0
85°	5.4	8.1	13.5	13.5	18.9	24.4	18.9	5.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)