

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: P459145

Luminaire Tested: **GALN-SA6B-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24610 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

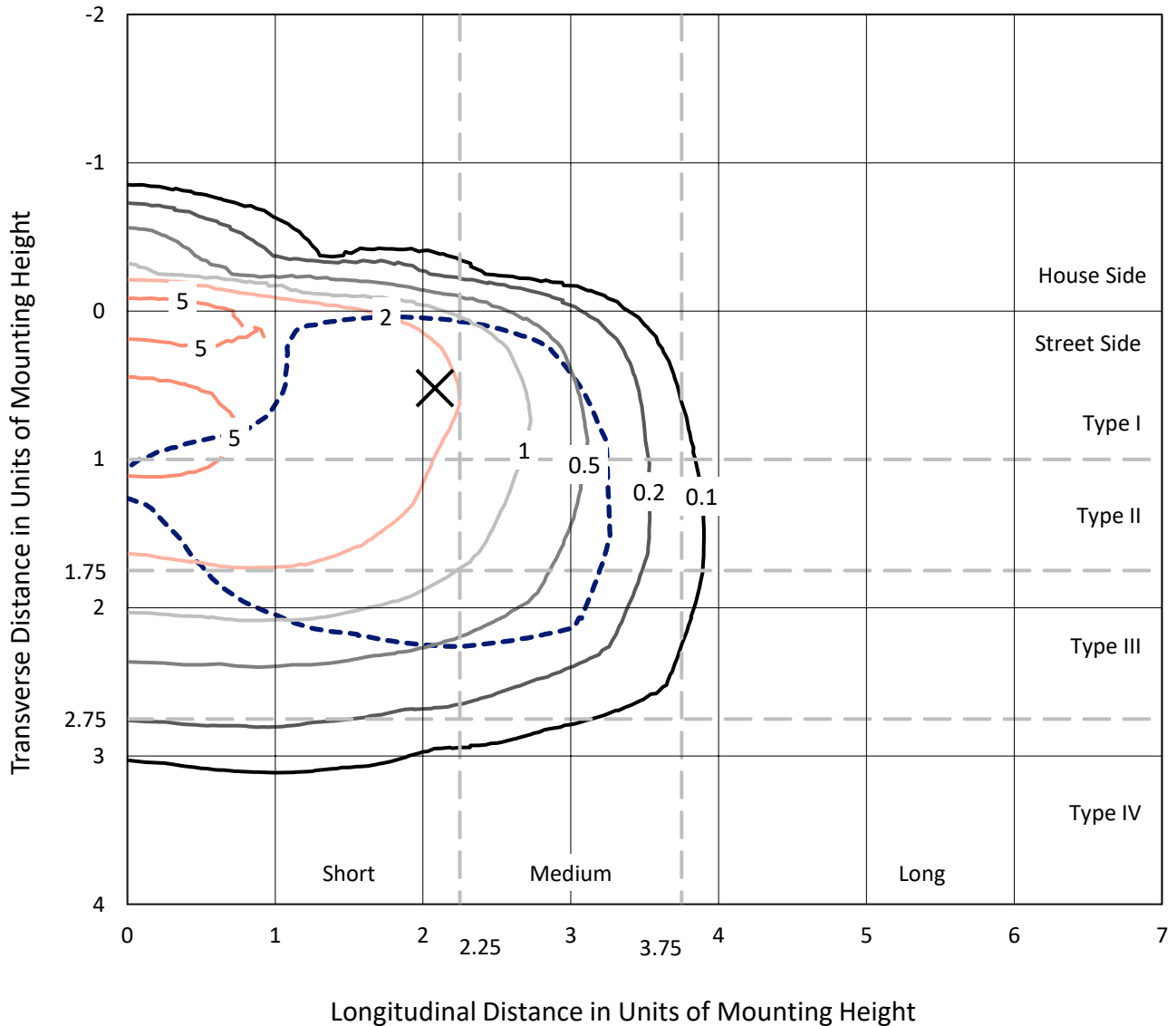
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

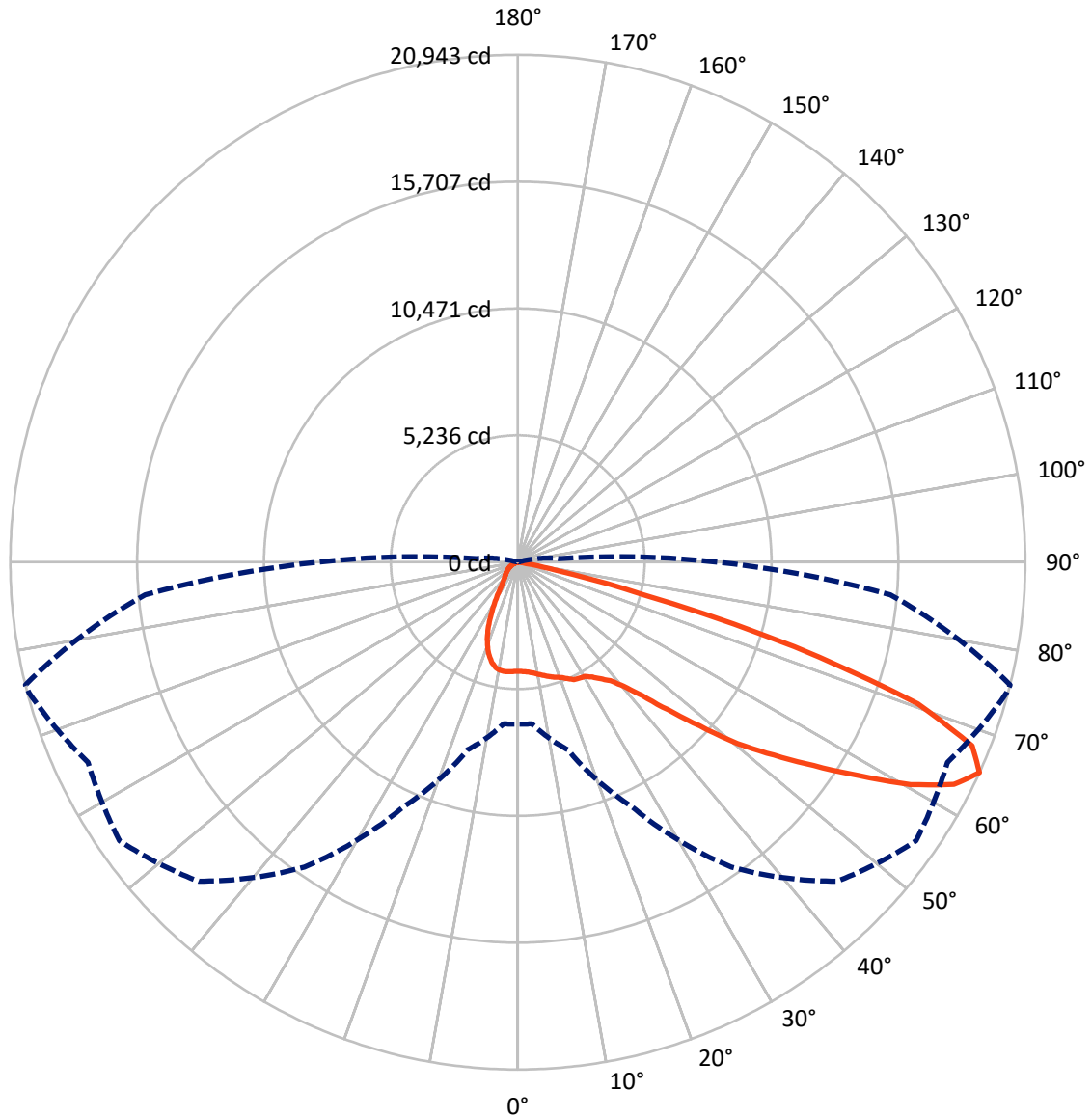
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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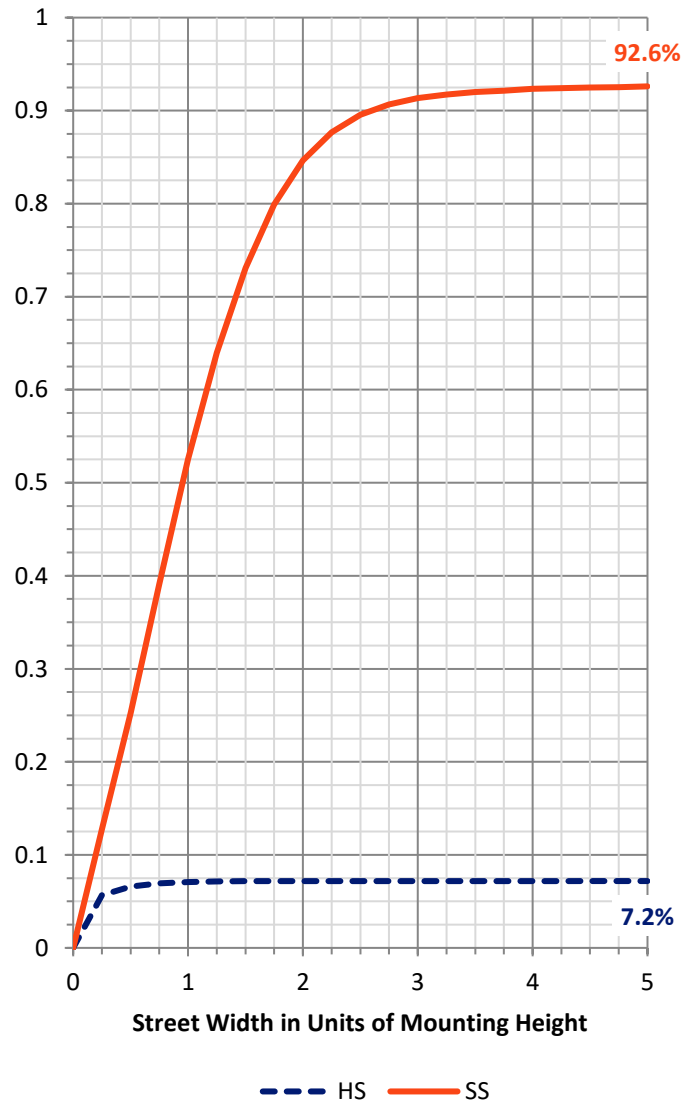
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.3	0.0	1777.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22832.7	0.0	22832.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	24610.0	0.0	24610.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.8	1.5
10°-20°	825.7	3.4
20°-30°	1330.6	5.4
30°-40°	2313.6	9.4
40°-50°	3823.1	15.5
50°-60°	5905.8	24.0
60°-70°	7211.9	29.3
70°-80°	2737.1	11.1
80°-90°	91.3	0.4
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°	24610.0	100.0
0°-180°	24610.0	100.0



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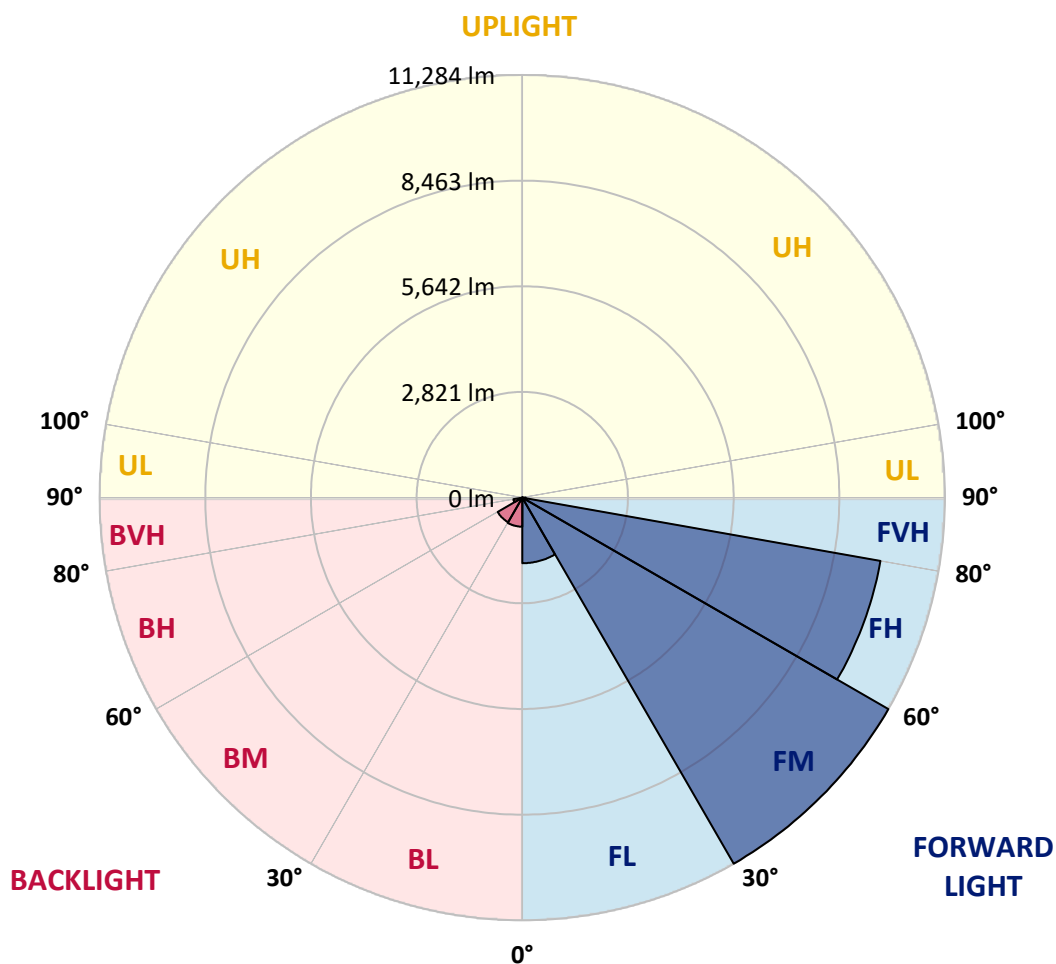
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.7	7.1			
FM (30°-60°)	11284.1	45.9			
FH (60°-80°)	9707.8	39.4			G4/12000
FVH (80°-90°)	90.1	0.4			G1/100
BL (0°-30°)	776.5	3.2	B2/1000		
BM (30°-60°)	758.4	3.1	B1/1000		
BH (60°-80°)	241.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0
2.5°	4302.1	4303.9	4314.3	4340.4	4380.3	4413.3	4441.1	4486.3	4517.6	4521.1	4531.5
5°	4005.0	3984.2	4005.0	4072.8	4133.6	4225.7	4338.6	4451.6	4552.3	4559.3	4607.9
7.5°	3671.4	3688.8	3721.8	3791.3	3906.0	4046.7	4210.0	4411.6	4602.7	4620.1	4715.7
10°	3332.6	3370.8	3424.7	3530.7	3690.5	3873.0	4095.4	4383.8	4682.7	4707.0	4872.0
12.5°	3019.8	3037.2	3103.2	3245.7	3443.8	3701.0	4008.5	4368.2	4771.3	4800.8	5038.9
15°	2780.1	2802.6	2860.0	2988.6	3209.2	3539.4	3937.3	4363.0	4858.1	4899.9	5205.7
17.5°	2734.9	2748.8	2773.1	2860.0	3052.8	3410.8	3873.0	4361.2	4941.6	4991.9	5360.3
20°	2920.8	2908.6	2884.3	2875.6	2981.6	3311.7	3826.1	4375.1	5021.5	5078.8	5523.6
22.5°	3386.5	3402.1	3259.6	3091.1	3056.3	3296.1	3819.1	4441.1	5148.3	5216.1	5706.1
25°	4375.1	4255.2	4032.8	3629.7	3325.6	3391.7	3897.3	4597.5	5296.0	5370.7	5871.1
27.5°	5468.0	5431.5	5085.8	4422.0	3855.6	3593.2	4036.3	4717.4	5344.7	5421.1	5965.0
30°	6541.8	6585.3	6189.1	5455.9	4625.3	3966.8	4166.6	4762.6	5388.1	5468.0	6084.8
32.5°	7537.4	7589.6	7242.0	6515.8	5532.3	4613.2	4390.8	4938.1	5570.5	5652.2	6284.7
35°	8321.1	8328.0	8065.6	7487.0	6522.7	5398.5	4875.5	5245.6	5817.3	5912.8	6496.6
37.5°	9040.4	9030.0	8722.4	8223.8	7348.0	6178.7	5485.4	5600.1	6098.7	6197.8	6802.5
40°	9573.8	9580.8	9481.7	9012.6	8117.8	6899.8	5968.4	5931.9	6571.4	6726.0	7247.3
42.5°	9930.0	9994.3	10043.0	9804.9	9085.6	7787.6	6710.4	6642.6	7391.5	7520.1	7876.2
45°	10218.4	10333.1	10576.4	10564.2	10015.2	8877.1	7728.6	7589.6	8553.9	8691.2	8677.3
47.5°	10428.7	10545.1	10948.2	11191.5	10889.1	9933.5	9009.1	8889.2	9942.2	10091.6	9561.7
50°	10536.4	10675.4	11189.7	11660.6	11572.0	10951.7	10468.7	10475.6	11618.9	11763.1	10586.8
52.5°	10284.5	10465.2	11318.3	12166.2	12338.2	11926.4	11836.1	12065.4	13111.4	13234.8	11512.9
55°	9480.0	9707.6	11142.8	12597.1	13226.1	13076.7	13389.4	13738.7	14743.0	14822.9	12463.3
57.5°	8970.9	9212.4	10625.0	12963.8	14293.0	14522.3	15017.5	15272.9	16426.7	16630.0	13554.5
60°	8541.7	8731.1	10199.3	13041.9	15377.2	16291.1	16772.4	17036.5	18504.8	18636.8	14755.2
62.5°	7827.6	8044.8	9480.0	12496.4	15922.8	17707.2	18704.6	18586.4	20112.0	20204.1	15491.9
65°	6679.1	6698.2	8020.5	11125.4	15359.8	18626.4	20061.6	19566.4	20880.0	20942.5	15434.5
67.5°	4985.0	5169.2	6170.0	8745.0	12974.2	17841.0	20501.2	19592.5	20395.2	20221.4	14209.6
70°	3211.0	3351.7	4182.2	6064.0	9354.9	14888.9	19043.4	18249.3	17900.1	17514.4	11631.1
72.5°	1482.1	1662.8	2484.7	3464.6	5548.0	10605.9	15458.9	14826.4	12883.8	11931.7	7393.2
75°	646.4	691.5	1226.7	1827.9	2601.1	5608.8	10192.4	9203.7	5819.0	5315.1	2959.0
77.5°	394.4	424.0	642.9	980.0	1021.7	2137.2	5490.6	4015.4	1798.3	1586.4	802.7
80°	267.6	300.6	467.4	512.6	349.2	596.0	2060.7	1072.1	363.1	347.5	172.0
82.5°	130.3	165.1	345.8	286.7	151.2	191.1	599.4	229.4	106.0	99.0	60.8
85°	19.1	33.0	194.6	187.7	67.8	45.2	106.0	57.3	36.5	34.8	27.8
87.5°	0.0	0.0	66.0	29.5	7.0	7.0	12.2	12.2	13.9	12.2	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°	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0	4502.0
2.5°	4536.7	4545.4	4512.4	4465.5	4415.1	4364.7	4293.5	4229.2	4190.9	4213.5	4157.9
5°	4618.4	4611.4	4524.5	4382.1	4192.7	3965.1	3739.2	3546.3	3483.8	3389.9	3379.5
7.5°	4731.3	4712.2	4528.0	4201.4	3773.9	3346.5	2929.5	2653.2	2495.1	2361.3	2364.8
10°	4889.4	4833.8	4488.1	3883.4	3179.7	2535.1	2003.4	1638.5	1480.4	1430.0	1390.0
12.5°	5052.8	4945.0	4376.9	3454.2	2476.0	1732.3	1218.0	995.6	898.3	867.0	863.6
15°	5198.7	5028.4	4182.2	2938.2	1800.1	1106.8	830.5	757.6	745.4	747.1	745.4
17.5°	5342.9	5094.5	3912.9	2390.8	1223.2	794.1	714.1	696.8	702.0	708.9	707.2
20°	5462.8	5108.4	3568.9	1824.4	865.3	696.8	670.7	667.2	672.4	677.6	677.6
22.5°	5593.1	5118.8	3160.6	1263.2	707.2	648.1	634.2	634.2	641.2	648.1	649.8
25°	5690.4	5061.4	2672.3	907.0	623.8	601.2	594.2	596.0	602.9	606.4	604.7
27.5°	5706.1	4899.9	2154.5	695.0	566.4	543.8	536.9	543.8	535.2	540.4	536.9
30°	5720.0	4694.8	1629.8	585.5	514.3	479.6	469.1	458.7	451.8	443.1	441.3
32.5°	5763.4	4453.3	1190.2	526.5	465.7	427.4	403.1	373.6	351.0	344.0	342.3
35°	5782.5	4163.1	874.0	479.6	422.2	380.5	337.1	295.4	262.4	250.2	258.9
37.5°	5855.5	3881.7	677.6	444.8	384.0	331.9	276.3	224.1	192.9	185.9	189.4
40°	6004.9	3575.8	568.2	415.3	351.0	286.7	218.9	168.5	147.7	140.7	139.0
42.5°	6244.7	3271.8	505.6	387.5	318.0	241.5	172.0	132.1	114.7	109.5	109.5
45°	6536.6	2979.9	462.2	357.9	283.2	194.6	135.5	106.0	95.6	92.1	92.1
47.5°	6920.6	2724.5	425.7	328.4	245.0	154.6	109.5	92.1	85.1	86.9	88.6
50°	7309.8	2535.1	385.7	295.4	201.6	126.8	93.8	81.7	79.9	81.7	81.7
52.5°	7603.5	2423.9	331.9	250.2	158.1	106.0	83.4	76.5	74.7	71.2	71.2
55°	7999.6	2399.5	264.1	203.3	125.1	88.6	74.7	69.5	64.3	60.8	59.1
57.5°	8508.7	2427.3	203.3	158.1	97.3	73.0	66.0	57.3	50.4	43.4	43.4
60°	8824.9	2364.8	158.1	121.6	71.2	59.1	50.4	41.7	33.0	27.8	26.1
62.5°	8724.2	2100.7	125.1	90.4	50.4	43.4	33.0	27.8	19.1	13.9	12.2
65°	8204.6	1695.8	100.8	62.6	36.5	26.1	17.4	17.4	8.7	1.7	0.0
67.5°	7181.2	1256.2	79.9	41.7	20.9	12.2	8.7	5.2	0.0	0.0	0.0
70°	5845.1	907.0	62.6	26.1	12.2	8.7	3.5	1.7	0.0	0.0	0.0
72.5°	3711.4	519.5	48.7	15.6	8.7	3.5	0.0	0.0	0.0	0.0	0.0
75°	1435.2	203.3	33.0	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	406.6	95.6	19.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	106.0	41.7	10.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.4	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.5	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	1.7	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)