

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: P459139

Luminaire Tested: **GALN-SA6B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23498 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

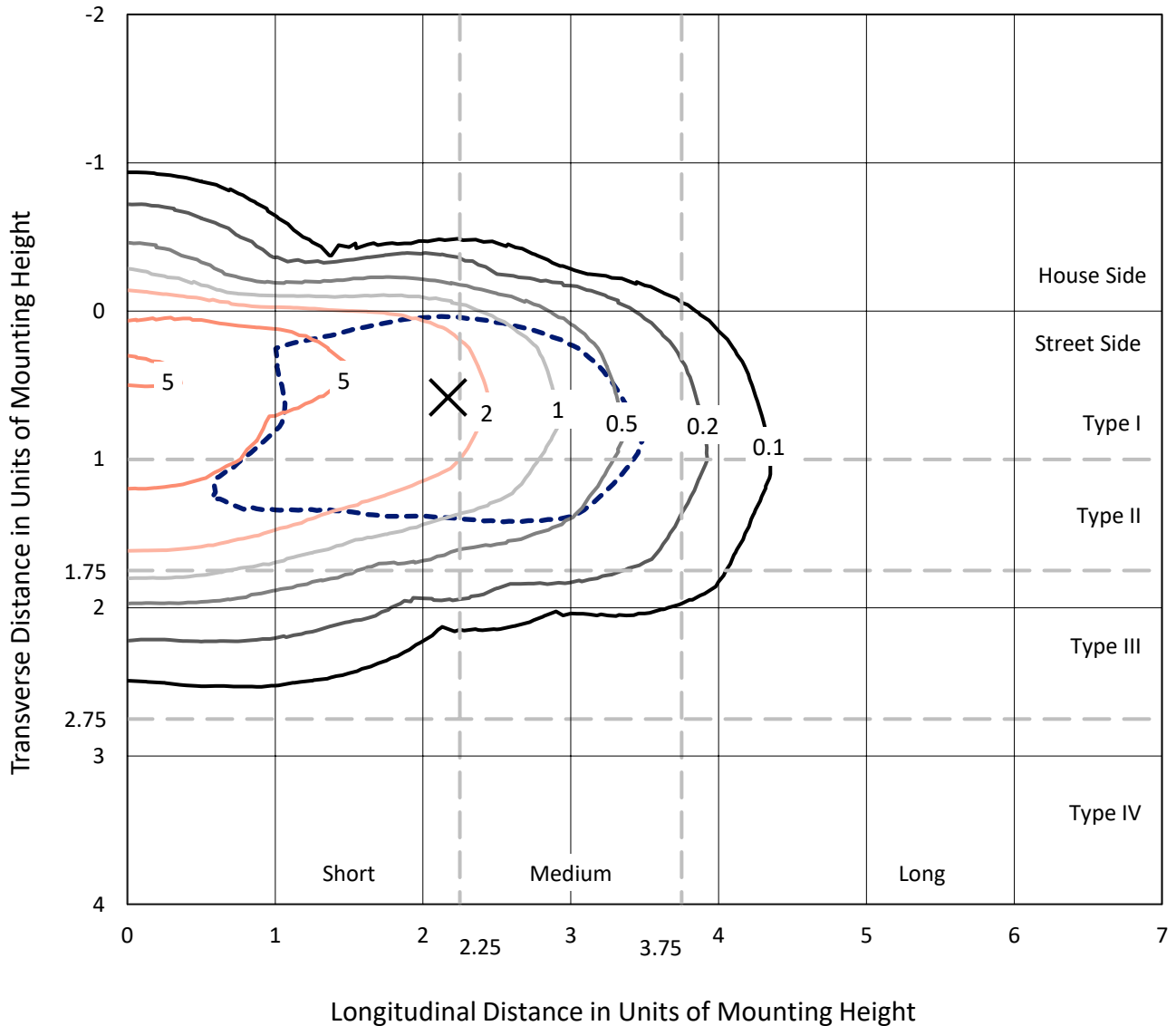
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

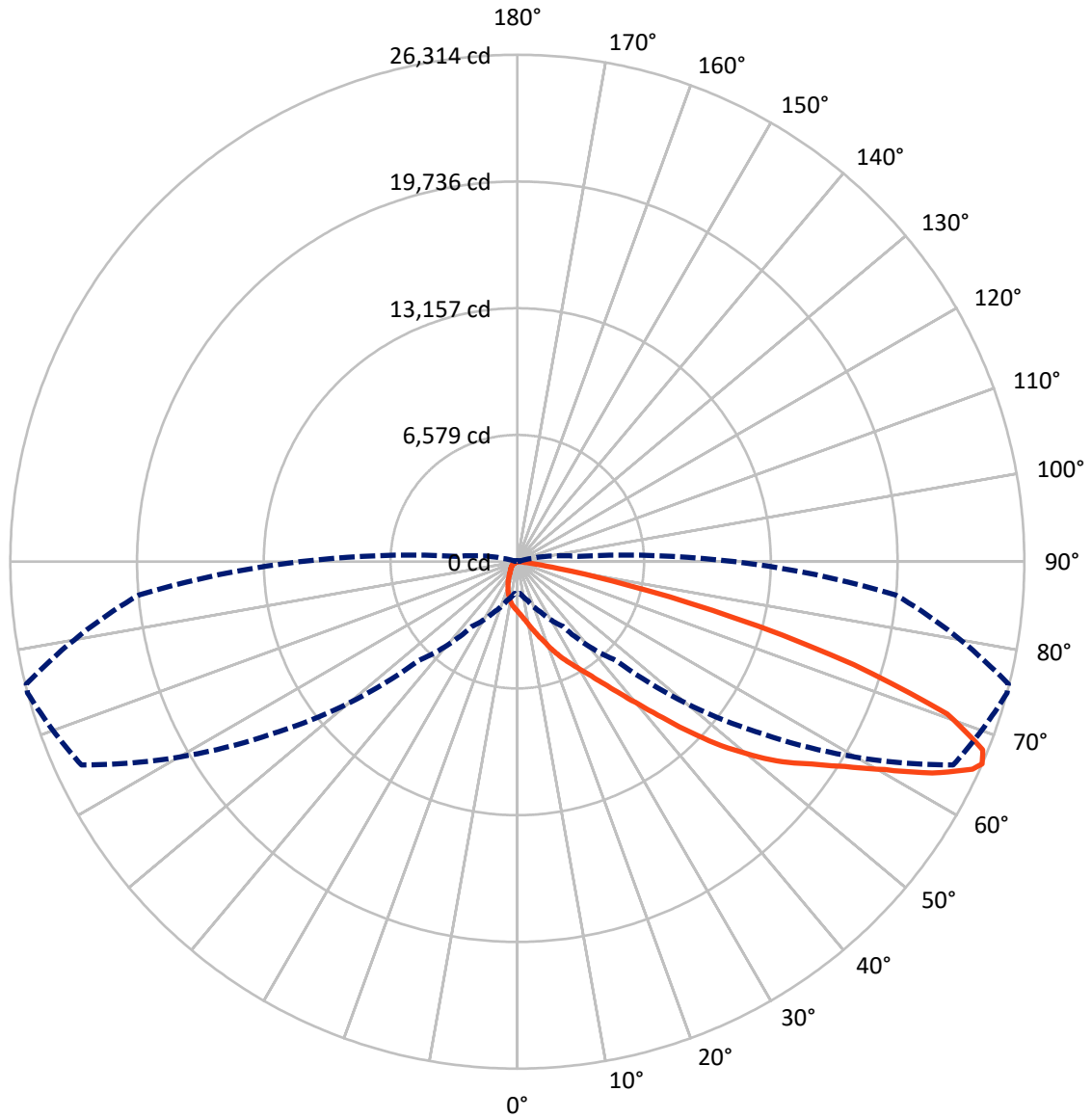
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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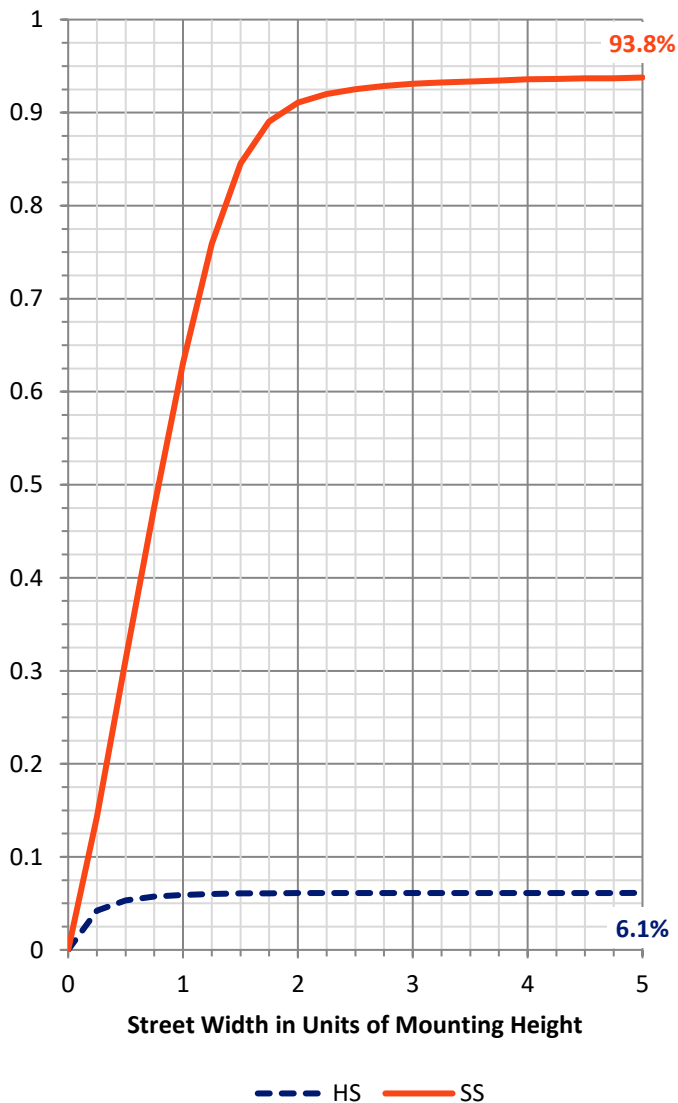
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.7	0.0	1450.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22047.3	0.0	22047.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	23498.0	0.0	23498.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.1
10°-20°	729.5	3.1
20°-30°	1259.6	5.4
30°-40°	2272.1	9.7
40°-50°	4104.5	17.5
50°-60°	6399.0	27.2
60°-70°	6078.8	25.9
70°-80°	2278.2	9.7
80°-90°	128.5	0.5
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°	23498.0	100.0
0°-180°	23498.0	100.0



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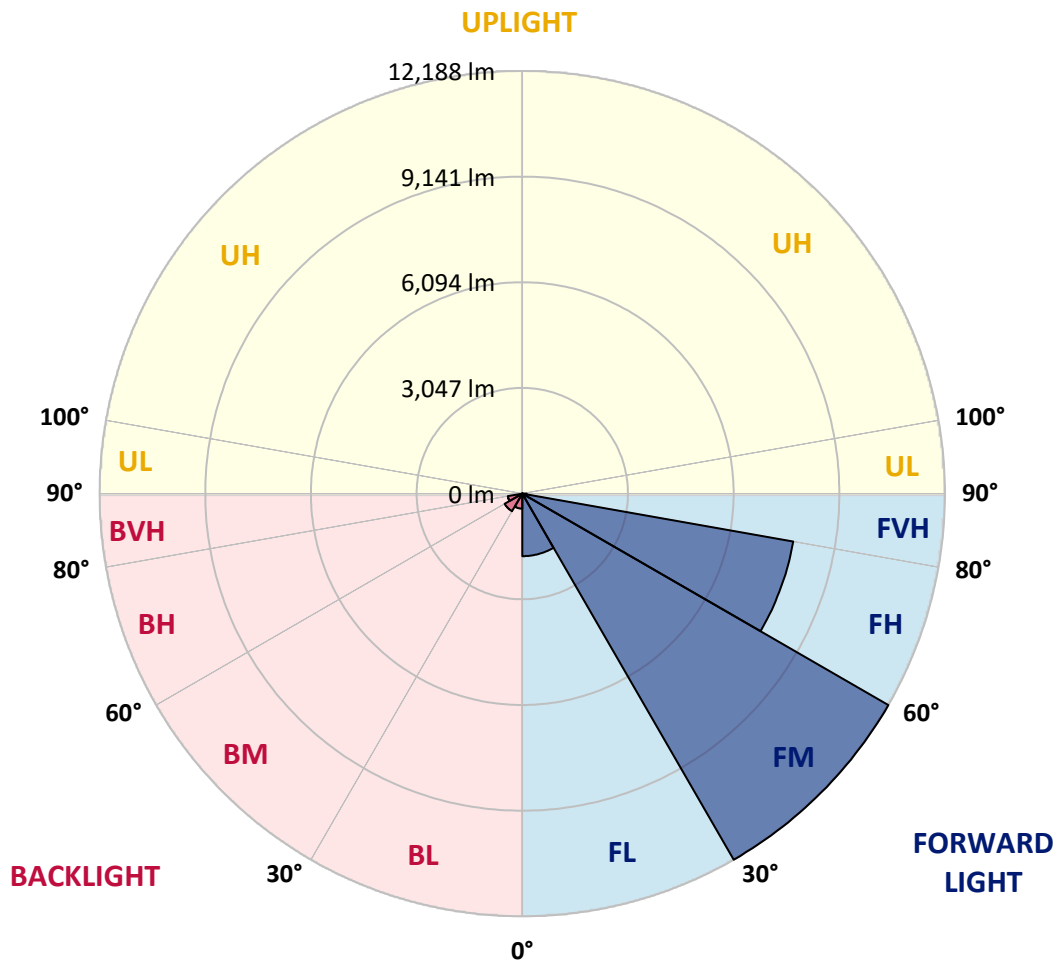
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.7	7.7			
FM (30°-60°)	12188.4	51.9			
FH (60°-80°)	7933.4	33.8			G4/12000
FVH (80°-90°)	121.9	0.5			G2/225
BL (0°-30°)	433.2	1.8	B1/500		
BM (30°-60°)	587.2	2.5	B1/1000		
BH (60°-80°)	423.6	1.8	B1/500		G1/500
BVH (80°-90°)	6.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7
2.5°	3070.1	3031.9	3044.1	3026.7	2986.7	2927.7	2875.5	2800.8	2726.1	2713.9	2630.6
5°	3475.0	3464.5	3450.6	3400.3	3372.5	3282.1	3174.4	3045.8	2891.2	2863.4	2712.2
7.5°	3751.2	3746.0	3753.0	3726.9	3702.6	3620.9	3506.2	3330.8	3091.0	3075.3	2823.4
10°	3841.6	3855.5	3881.5	3923.2	3961.5	3935.4	3848.5	3629.6	3349.9	3304.7	2950.2
12.5°	3789.5	3805.1	3867.6	3978.8	4102.2	4173.4	4138.7	3978.8	3624.4	3587.9	3092.7
15°	3655.7	3674.8	3763.4	3935.4	4156.1	4357.6	4444.5	4329.8	3944.1	3885.0	3264.7
17.5°	3457.6	3485.4	3612.2	3839.8	4142.2	4489.7	4734.6	4696.4	4284.6	4229.0	3452.4
20°	3308.2	3329.0	3436.7	3697.4	4083.1	4562.6	5010.9	5118.6	4705.1	4609.5	3673.0
22.5°	3407.2	3414.2	3450.6	3607.0	3977.1	4581.7	5254.2	5558.2	5151.6	5066.5	3902.4
25°	3892.0	3822.5	3786.0	3751.2	3954.5	4564.4	5474.8	6016.9	5596.4	5506.1	4130.0
27.5°	4656.5	4625.2	4441.0	4194.3	4147.4	4587.0	5620.8	6451.3	6015.2	5917.9	4352.4
30°	5488.7	5434.8	5321.9	4960.5	4597.4	4746.8	5726.7	6873.5	6510.4	6381.8	4555.7
32.5°	6253.2	6288.0	6119.4	5747.6	5327.1	5087.4	5864.0	7333.9	7078.5	6918.7	4792.0
35°	7144.5	7214.0	6955.1	6599.0	6107.3	5702.4	6131.6	7853.4	7799.6	7598.0	5156.9
37.5°	8049.8	8091.5	7933.4	7433.0	6989.9	6484.3	6635.5	8494.6	8687.4	8515.4	5593.0
40°	8810.8	8868.1	8751.7	8306.9	7834.3	7389.5	7366.9	9193.0	9743.8	9566.6	6242.8
42.5°	9392.8	9436.3	9439.7	9125.3	8699.6	8498.0	8300.0	10084.4	11067.8	10862.7	6996.8
45°	10127.8	10190.3	10153.9	9940.1	9622.2	9585.7	9483.2	11161.6	12652.4	12393.5	7975.1
47.5°	11264.1	11305.8	11215.5	10963.5	10640.4	10697.7	10636.9	12369.1	14268.2	14045.8	8988.0
50°	12052.9	12122.4	12251.0	12351.8	12117.2	11905.2	11724.5	13496.8	15802.4	15602.6	10023.5
52.5°	12044.2	12158.9	12565.5	13072.8	13585.4	13521.1	13001.6	14742.6	17267.1	17020.4	10996.5
55°	11232.8	11455.2	12052.9	12952.9	14372.5	15079.6	14843.3	16184.7	18532.0	18365.2	12124.2
57.5°	9557.9	9693.4	10523.9	11781.9	13932.9	15812.8	16977.0	18139.3	20048.8	19970.6	13875.5
60°	6428.7	6489.5	7558.1	9113.1	11861.8	15081.4	18540.7	20504.0	21916.6	21878.4	15920.6
62.5°	3683.5	3709.5	4484.4	5796.2	8440.7	12780.9	18672.7	23421.3	24156.2	24177.1	18287.0
65°	1982.5	1996.4	2621.9	3402.0	5136.0	9109.6	16791.0	25019.8	25966.7	26006.7	19753.5
66°	1711.4	1645.4	2086.7	2899.9	4086.6	7250.5	15600.9	24962.4	26314.2	26270.8	19701.3
67.5°	1301.4	1360.4	1666.2	2229.2	3028.4	5155.1	12880.0	23852.2	26050.1	25914.6	18900.3
70°	931.3	955.6	1186.7	1589.8	2062.4	2828.6	8230.5	19810.8	23676.7	23494.3	16466.1
72.5°	601.2	627.2	840.9	1150.2	1490.8	1544.6	4607.8	14313.4	18254.0	18227.9	12400.4
75°	429.2	453.5	556.0	823.6	1120.7	955.6	2218.8	9646.5	11604.7	11526.5	7671.0
77.5°	311.0	323.2	371.8	538.6	801.0	684.6	1028.6	5151.6	5777.1	6049.9	3389.8
80°	179.0	189.4	258.9	328.4	542.1	467.4	491.7	2067.6	2131.9	2029.4	1059.9
82.5°	88.6	100.8	154.6	224.1	338.8	314.5	225.9	622.0	656.8	639.4	267.6
85°	20.8	26.1	86.9	147.7	165.1	140.7	109.5	182.4	225.9	220.7	102.5
87.5°	1.7	3.5	31.3	26.1	27.8	46.9	38.2	46.9	73.0	67.8	36.5
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°	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7	2569.7
2.5°	2592.3	2559.3	2463.8	2369.9	2291.7	2210.1	2135.4	2091.9	2074.6	2055.4	2064.1
5°	2628.8	2548.9	2356.0	2189.2	2025.9	1886.9	1775.7	1704.5	1669.7	1664.5	1655.8
7.5°	2677.5	2540.2	2241.4	1980.7	1767.0	1612.4	1485.5	1383.0	1351.8	1324.0	1301.4
10°	2736.5	2524.6	2098.9	1761.8	1534.2	1339.6	1172.8	1051.2	988.6	971.3	983.4
12.5°	2799.1	2495.0	1949.5	1560.3	1297.9	1049.4	894.8	834.0	816.6	809.7	811.4
15°	2861.6	2458.5	1793.1	1365.7	1033.8	837.5	766.2	750.6	743.6	740.2	736.7
17.5°	2919.0	2399.5	1617.6	1176.3	837.5	715.8	689.8	675.9	662.0	656.8	648.1
20°	2986.7	2331.7	1459.5	964.3	708.9	648.1	616.8	590.7	569.9	556.0	554.3
22.5°	3051.0	2244.8	1294.4	799.2	646.3	582.1	531.7	503.9	479.5	462.2	467.4
25°	3085.8	2138.8	1146.7	696.7	589.0	516.0	460.4	425.7	399.6	390.9	389.2
27.5°	3085.8	2008.5	1002.5	637.7	536.9	457.0	399.6	366.6	349.2	337.1	338.8
30°	3061.4	1864.3	868.7	592.5	491.7	404.8	351.0	321.4	307.5	298.8	297.1
32.5°	3042.3	1727.1	754.1	549.0	444.8	359.7	312.7	290.2	276.3	267.6	267.6
35°	3071.9	1608.9	665.5	505.6	401.4	324.9	283.2	262.4	248.5	241.5	239.8
37.5°	3150.1	1501.2	597.7	458.7	361.4	295.4	262.4	238.0	224.1	215.4	212.0
40°	3342.9	1440.4	547.3	415.3	323.2	271.0	238.0	215.4	198.1	189.4	187.6
42.5°	3652.2	1442.1	498.7	375.3	293.6	250.2	217.2	191.1	172.0	163.3	161.6
45°	4117.8	1508.1	460.4	337.1	267.6	227.6	194.6	166.8	149.4	140.7	140.7
47.5°	4675.6	1636.7	427.4	304.1	243.2	206.8	172.0	144.2	126.8	119.9	119.9
50°	5280.2	1803.5	394.4	269.3	222.4	184.2	147.7	125.1	111.2	106.0	106.0
52.5°	5897.0	2005.1	361.4	241.5	199.8	159.8	126.8	111.2	99.0	95.6	93.8
55°	6706.7	2262.2	326.6	212.0	175.5	137.3	112.9	97.3	83.4	78.2	76.4
57.5°	7952.5	2649.7	288.4	185.9	144.2	114.7	97.3	81.7	66.0	57.3	55.6
60°	9455.4	3122.3	248.5	163.3	116.4	93.8	78.2	62.5	48.6	38.2	36.5
62.5°	10862.7	3422.8	210.2	137.3	92.1	71.2	55.6	46.9	34.7	24.3	22.6
65°	11484.8	3322.1	173.7	111.2	73.0	50.4	36.5	33.0	20.8	10.4	8.7
66°	11278.0	3172.6	159.8	100.8	66.0	43.4	31.3	27.8	15.6	5.2	5.2
67.5°	10668.2	2819.9	139.0	86.9	57.3	34.7	24.3	20.8	8.7	1.7	0.0
70°	9140.9	2281.3	109.5	64.3	41.7	24.3	13.9	10.4	5.2	0.0	0.0
72.5°	7021.2	1699.3	86.9	48.6	29.5	13.9	6.9	3.5	5.2	0.0	0.0
75°	4302.0	971.3	67.8	36.5	19.1	8.7	5.2	0.0	5.2	1.7	0.0
77.5°	1909.5	436.1	45.2	24.3	13.9	6.9	3.5	0.0	3.5	1.7	0.0
80°	483.0	142.5	26.1	17.4	10.4	5.2	1.7	0.0	3.5	3.5	1.7
82.5°	132.0	52.1	19.1	13.9	8.7	5.2	1.7	0.0	3.5	3.5	3.5
85°	52.1	24.3	17.4	13.9	10.4	5.2	1.7	0.0	3.5	3.5	3.5
87.5°	24.3	17.4	17.4	15.6	12.2	5.2	1.7	0.0	3.5	1.7	3.5
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)