

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: P533128

Luminaire Tested: **GALN-SA8C-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44359 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

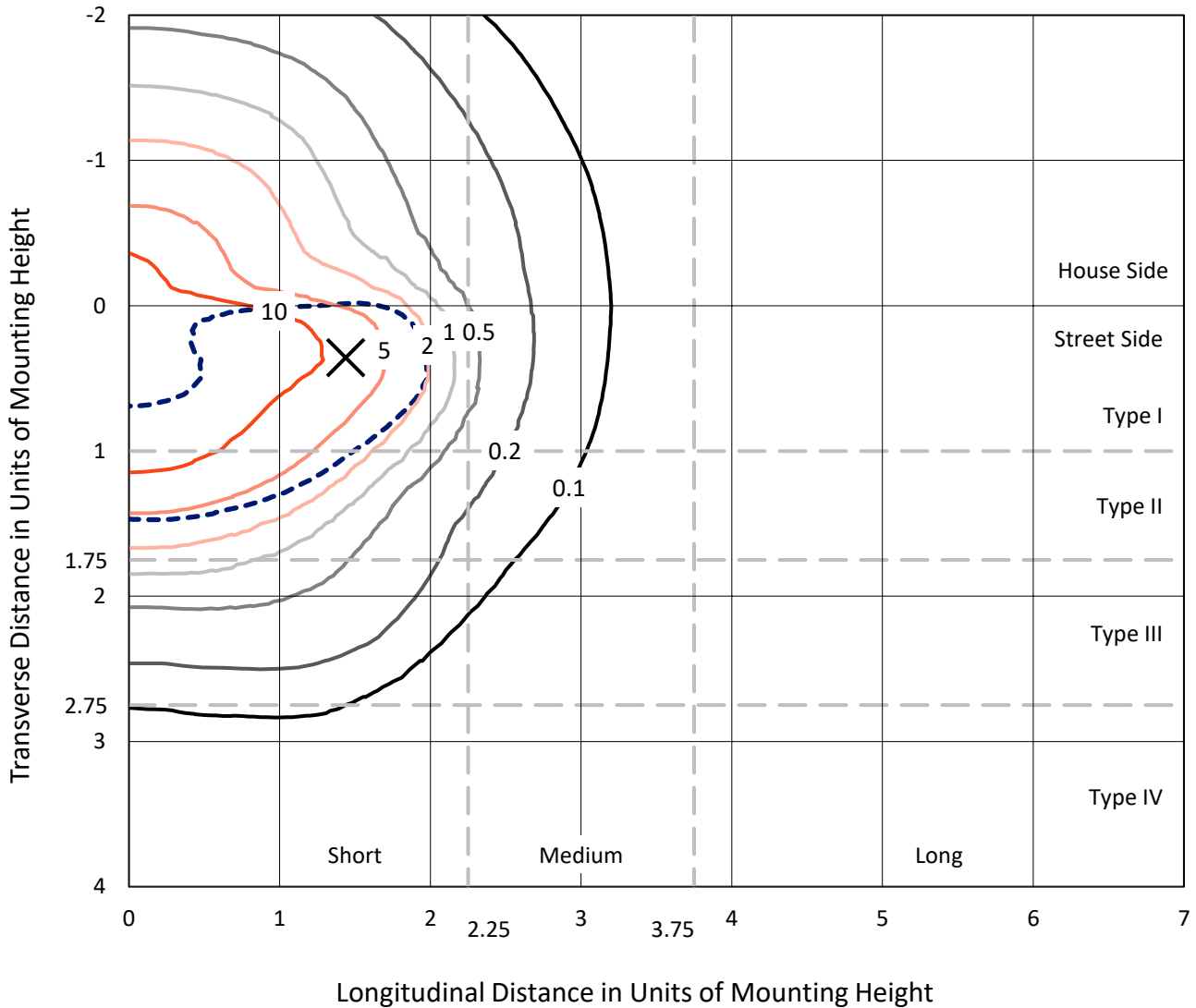
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

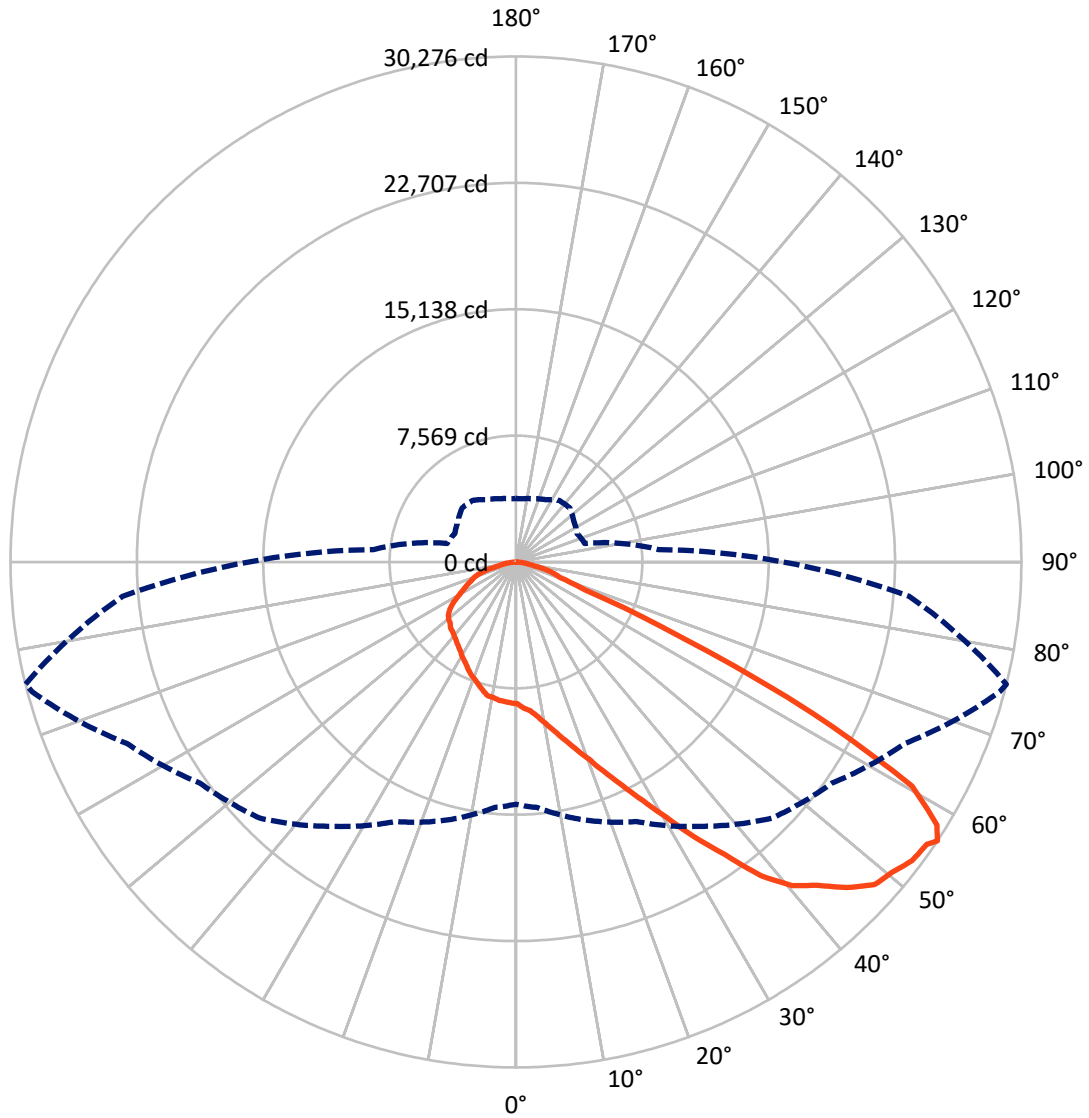
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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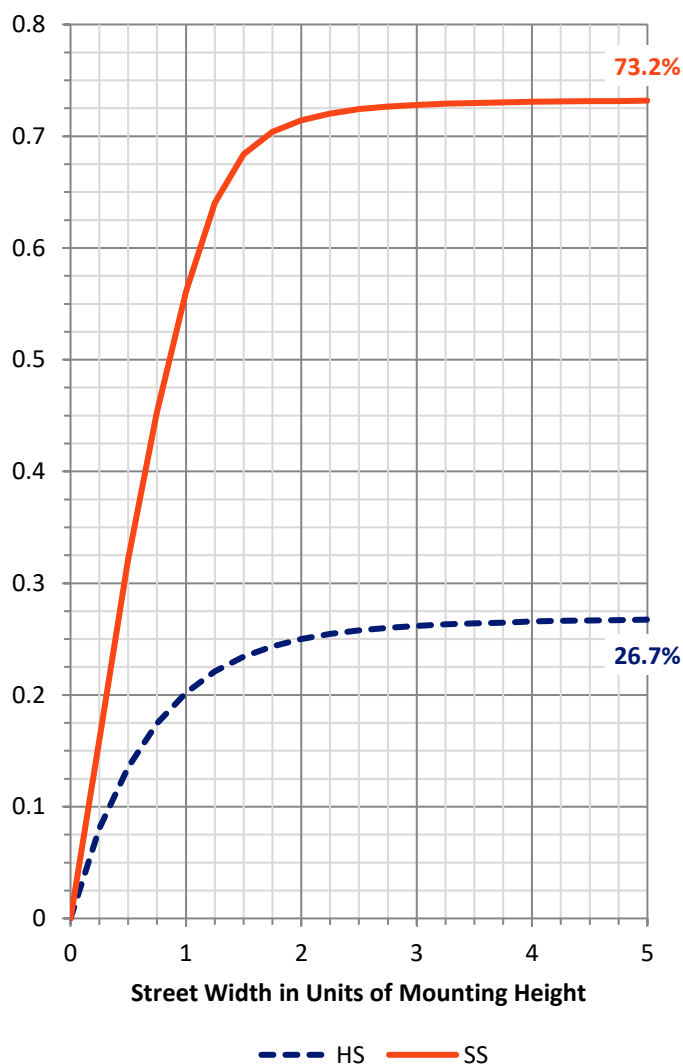
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11926.8	0.0	11926.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	32432.2	0.0	32432.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	44359.0	0.0	44359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.7	1.9
10°-20°	2644.0	6.0
20°-30°	4624.1	10.4
30°-40°	7240.0	16.3
40°-50°	10532.2	23.7
50°-60°	11575.6	26.1
60°-70°	5166.8	11.6
70°-80°	1492.4	3.4
80°-90°	242.1	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°	44359.0	100.0
0°-180°	44359.0	100.0

Coefficient of Utilization



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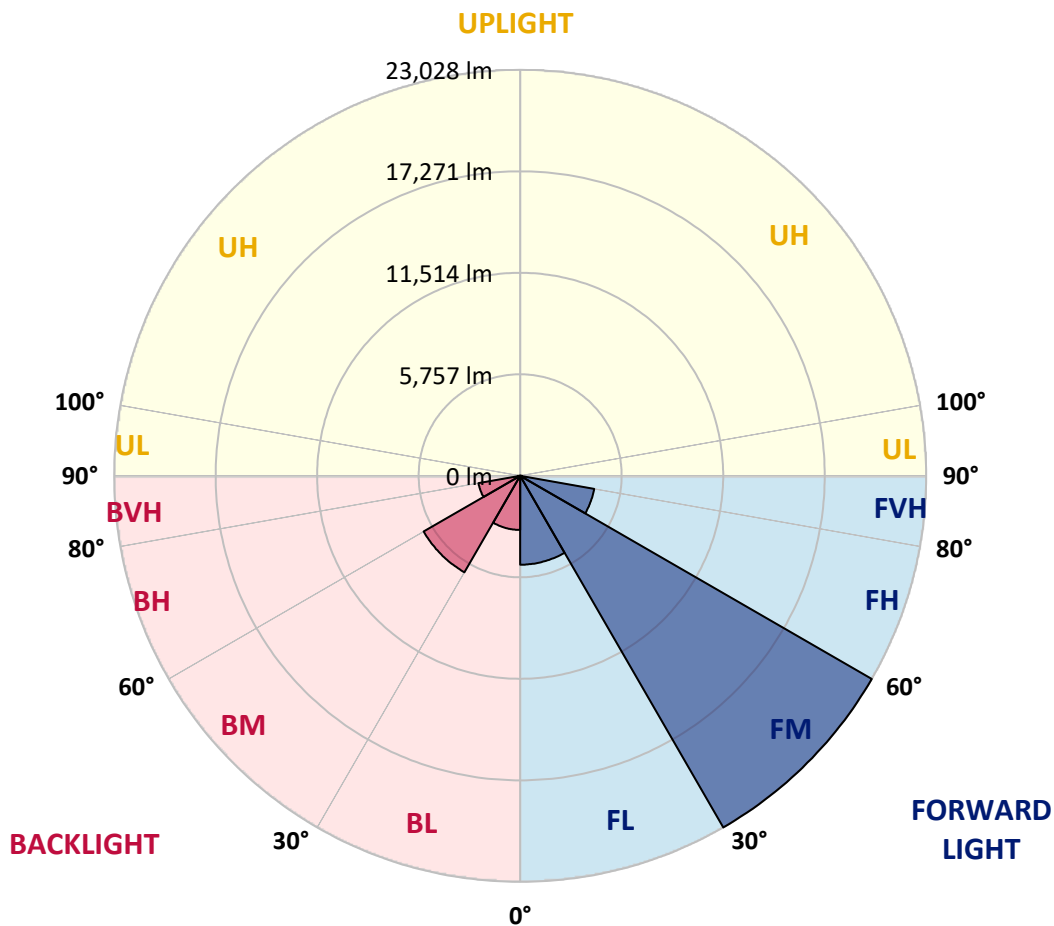
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5040.9	11.4			
FM (30°-60°)	23027.6	51.9			
FH (60°-80°)	4259.5	9.6			G2/5000
FVH (80°-90°)	104.2	0.2			G2/225
BL (0°-30°)	3069.0	6.9	B4/5000		
BM (30°-60°)	6320.2	14.2	B4/8500		
BH (60°-80°)	2399.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	137.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5
2.5°	9350.1	9200.6	9189.1	9148.8	9171.8	9068.3	8959.1	8815.3	8665.8	8757.8	8539.3
5°	10005.6	9804.4	9884.9	9746.9	9764.1	9626.1	9401.8	9235.1	9051.1	8941.8	8786.5
7.5°	10235.6	10252.9	10310.4	10287.4	10172.4	10172.4	10022.9	9729.6	9407.6	9344.3	9085.6
10°	10546.2	10551.9	10488.6	10505.9	10666.9	10592.2	10459.9	10333.4	9919.4	9844.6	9384.6
12.5°	10655.4	10551.9	10655.4	10747.4	10937.2	11040.7	11011.9	10919.9	10477.1	10425.4	9752.6
15°	10672.7	10609.4	10695.7	10902.7	11069.4	11506.5	11725.0	11661.7	11075.2	11080.9	10166.6
17.5°	10592.2	10678.4	10712.9	10891.2	11276.4	11684.7	12317.3	12403.5	11920.5	11845.7	10689.9
20°	10701.4	10638.2	10684.2	10845.2	11357.0	11995.2	12823.3	13392.6	12714.0	12662.3	11230.4
22.5°	11121.2	11034.9	11023.4	11126.9	11495.0	12156.3	13358.1	14381.6	13680.1	13708.8	11903.2
25°	11449.0	11495.0	11454.7	11449.0	11679.0	12397.8	14065.4	15560.5	14991.2	14824.4	12696.8
27.5°	12012.5	12121.7	12041.2	12150.5	12098.7	12760.0	14571.4	16865.8	16405.8	16181.5	13415.6
30°	12794.5	12852.0	12777.3	12777.3	12622.0	13266.1	15031.4	18228.6	18038.9	17734.1	14260.9
32.5°	13823.9	13910.1	13760.6	13674.3	13651.3	14019.4	15859.5	19574.2	19896.2	19637.5	15382.2
35°	15186.7	15134.9	14956.7	14876.2	14565.7	15175.2	17090.1	21121.1	21966.4	21506.3	16739.3
37.5°	16388.5	16308.0	16296.5	15848.0	15922.7	16423.0	18136.6	22294.1	23973.2	23841.0	18171.1
40°	17509.8	17584.6	17705.3	17452.3	17337.3	17889.4	19355.7	23191.2	25531.6	25479.8	19275.2
42.5°	18711.7	18642.7	18855.4	18642.7	18470.1	19252.2	20678.3	23812.2	26900.2	26474.6	20431.0
45°	20454.0	20235.5	20310.3	20327.5	20201.0	20488.5	21224.6	24260.8	27860.5	27814.5	21276.3
47.5°	21908.9	21914.6	21788.1	21690.3	21305.1	21592.6	21834.1	24542.5	28964.5	28889.8	21604.1
50°	22449.4	22374.6	22742.7	22955.4	22978.4	22391.9	22311.4	24697.8	29545.3	29217.6	21931.9
52.5°	20505.8	20574.8	21155.6	22420.6	23150.9	23214.2	22869.2	25019.8	29781.1	29712.1	22196.4
55°	16503.5	16837.0	17791.6	19252.2	20983.0	22886.4	23473.0	25353.3	29907.6	29850.1	23369.4
56°	14508.1	14766.9	16009.0	17153.3	19326.9	21696.1	23093.4	25709.8	30005.4	30275.6	23645.5
57.5°	11679.0	11978.0	12869.3	14168.9	16733.5	19430.5	22046.9	25272.8	29625.8	29729.3	23846.7
60°	7303.0	7331.7	8401.3	9258.1	11063.7	13697.3	16825.5	21989.4	27417.7	27268.2	21420.1
62.5°	4790.0	4795.8	5767.6	6469.2	7291.5	7895.2	9902.1	14582.9	20229.8	19965.2	15249.9
65°	3364.0	3438.7	4192.0	5129.3	5462.8	5146.6	5083.3	7688.2	11299.4	10919.9	8194.3
67.5°	2461.2	2466.9	3133.9	4140.3	4623.3	3916.0	3179.9	3755.0	4473.8	4462.3	3795.2
70°	1627.4	1696.4	2208.1	3093.7	3645.7	3145.4	2599.2	2685.4	2846.4	2846.4	2823.4
72.5°	948.8	1012.1	1351.3	1960.9	2047.1	1966.6	2058.6	2300.1	2403.6	2397.9	2369.1
75°	540.5	569.3	644.0	816.6	1017.8	1201.8	1512.3	1742.4	1845.9	1909.1	1834.4
77.5°	316.3	333.5	379.5	465.8	529.0	649.8	822.3	983.3	1121.3	1104.1	1115.6
80°	166.8	166.8	212.8	276.0	368.0	460.0	546.3	638.3	713.0	730.3	747.5
82.5°	97.8	103.5	138.0	201.3	264.5	327.8	419.8	483.0	552.0	557.8	569.3
85°	51.8	57.5	86.3	132.3	178.3	201.3	207.0	195.5	212.8	201.3	230.0
87.5°	17.3	17.3	28.8	23.0	23.0	28.8	34.5	34.5	46.0	46.0	46.0
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°	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5	8487.5
2.5°	8533.5	8533.5	8435.8	8251.8	8223.0	8148.3	8079.2	8073.5	8021.7	7975.7	7952.7
5°	8694.5	8516.3	8372.5	8205.8	8010.2	7918.2	7814.7	7699.7	7653.7	7699.7	7694.0
7.5°	8878.5	8729.0	8297.8	7987.2	7763.0	7671.0	7556.0	7435.2	7446.7	7446.7	7366.2
10°	9056.8	8855.5	8165.5	7768.7	7441.0	7372.0	7308.7	7354.7	7412.2	7423.7	7372.0
12.5°	9355.8	8901.6	8102.3	7550.2	7343.2	7193.7	7233.9	7360.5	7481.2	7446.7	7487.0
15°	9580.1	8941.8	7814.7	7326.0	7067.2	7136.2	7280.0	7366.2	7567.5	7544.5	7584.7
17.5°	9798.6	8964.8	7533.0	7026.9	6917.7	7107.4	7216.7	7464.0	7527.2	7665.2	7717.0
20°	10247.1	9010.8	7245.4	6842.9	6808.4	7026.9	7216.7	7331.7	7469.7	7590.5	7590.5
22.5°	10477.1	8987.8	7055.7	6601.4	6710.7	6848.7	7021.2	7216.7	7216.7	7331.7	7337.5
25°	10764.7	8895.8	6756.7	6486.4	6566.9	6699.2	6894.7	6825.7	6900.4	6900.4	6992.4
27.5°	11092.4	8700.3	6497.9	6279.4	6440.4	6584.2	6612.9	6566.9	6480.7	6469.2	6434.6
30°	11357.0	8458.8	6308.1	6210.4	6342.6	6423.1	6331.1	6233.4	6083.9	6072.4	5991.9
32.5°	11719.2	8159.8	6072.4	6037.9	6187.4	6193.1	6164.4	6014.9	5796.4	5704.4	5612.3
35°	12328.8	7987.2	5894.1	5945.9	5991.9	5974.6	5922.9	5761.9	5543.3	5503.1	5468.6
37.5°	12777.3	7860.7	5710.1	5773.4	5813.6	5836.6	5681.4	5503.1	5508.8	5428.3	5405.3
40°	13283.3	7780.2	5560.6	5589.3	5595.1	5669.9	5480.1	5393.8	5434.1	5382.3	5416.8
42.5°	13933.1	7803.2	5405.3	5382.3	5491.6	5462.8	5370.8	5255.8	5278.8	5123.6	5146.6
45°	14278.1	7958.5	5313.3	5209.8	5330.6	5324.8	5204.1	5094.8	4956.8	4657.8	4669.3
47.5°	14508.1	7998.7	5094.8	5025.8	5152.3	5227.1	5089.1	4836.0	4640.5	4427.8	4376.0
50°	14743.9	8073.5	4991.3	4847.5	4899.3	5077.6	4905.1	4663.5	4473.8	4284.0	4312.8
52.5°	14950.9	8217.3	4790.0	4577.3	4669.3	4864.8	4772.8	4479.5	4272.5	4117.3	4071.3
55°	15871.0	8539.3	4450.8	4174.8	4393.3	4640.5	4588.8	4232.3	4008.0	3927.5	3916.0
56°	16014.7	8550.8	4272.5	4036.7	4238.0	4565.8	4502.5	4123.0	3921.7	3795.2	3801.0
57.5°	16037.7	8412.8	4019.5	3910.2	4082.8	4456.5	4376.0	4036.7	3760.7	3645.7	3611.2
60°	14111.4	6566.9	3703.2	3634.2	3835.5	4123.0	4094.3	3801.0	3490.5	3358.2	3421.5
62.5°	9620.3	4813.0	3456.0	3444.5	3548.0	3829.7	3755.0	3490.5	3231.7	3145.4	3105.2
65°	5600.8	3651.5	3214.4	3168.4	3254.7	3404.2	3456.0	3179.9	2909.7	2852.2	2834.9
67.5°	3306.5	3018.9	2903.9	2829.2	2800.4	2892.4	2932.7	2771.7	2501.4	2420.9	2489.9
70°	2765.9	2685.4	2691.2	2564.7	2495.7	2432.4	2397.9	2254.1	2029.9	1926.4	1897.6
72.5°	2386.4	2351.9	2328.9	2213.9	2150.6	2006.9	1857.4	1713.6	1546.8	1460.6	1466.3
75°	1822.9	1811.4	1822.9	1765.4	1656.1	1541.1	1403.1	1219.1	1092.6	983.3	1006.3
77.5°	1086.8	1121.3	1138.6	1115.6	1069.6	966.1	879.8	759.0	638.3	552.0	540.5
80°	747.5	776.3	805.0	776.3	730.3	655.5	563.5	471.5	385.3	339.3	327.8
82.5°	569.3	598.0	615.3	586.5	529.0	448.5	385.3	322.0	253.0	207.0	195.5
85°	207.0	235.8	230.0	276.0	299.0	287.5	247.3	189.8	143.8	103.5	97.8
87.5°	57.5	51.8	57.5	57.5	57.5	51.8	46.0	46.0	46.0	28.8	23.0
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)