

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: P454635

Luminaire Tested: **GALN-SA5D-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29186 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

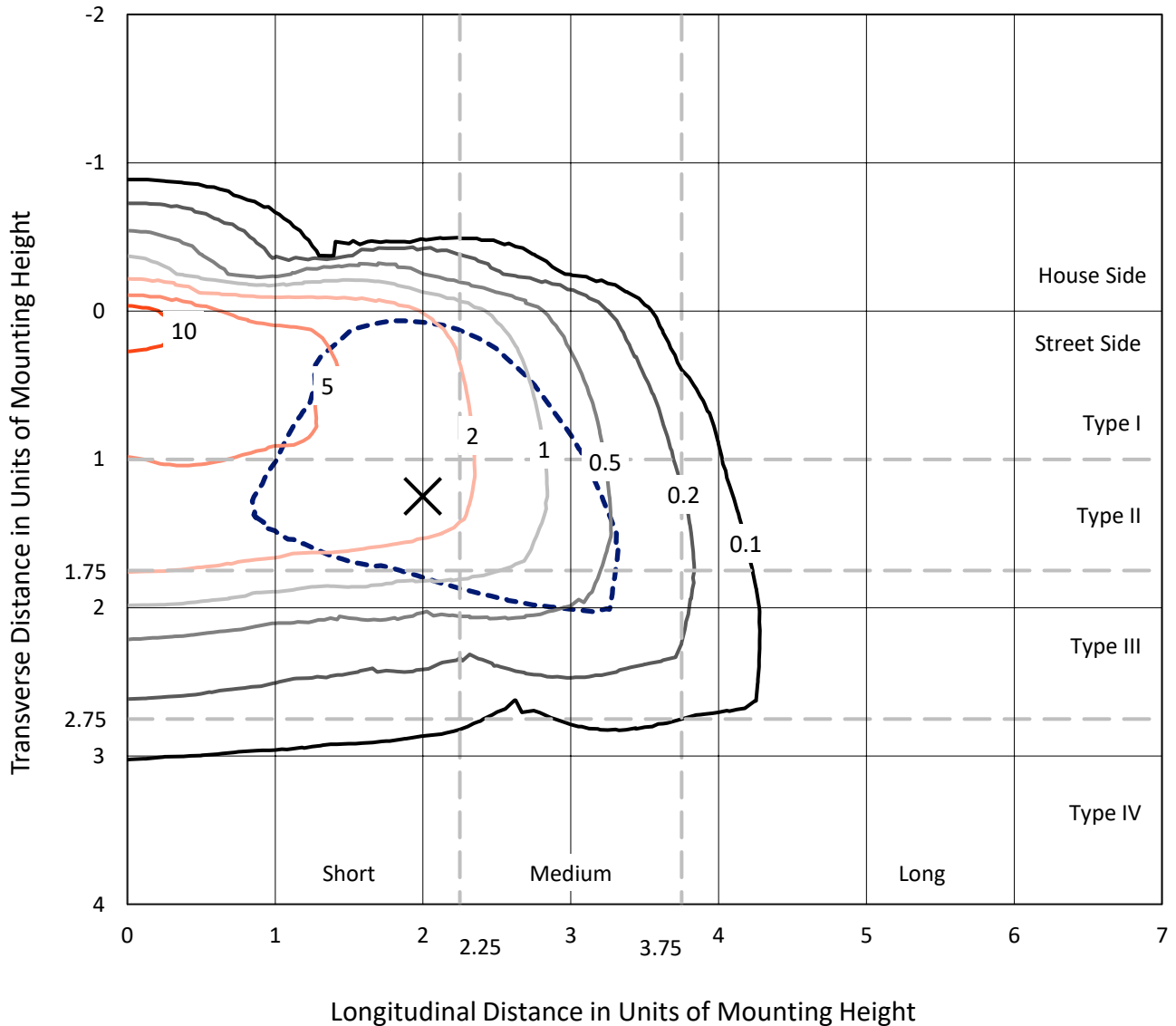
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

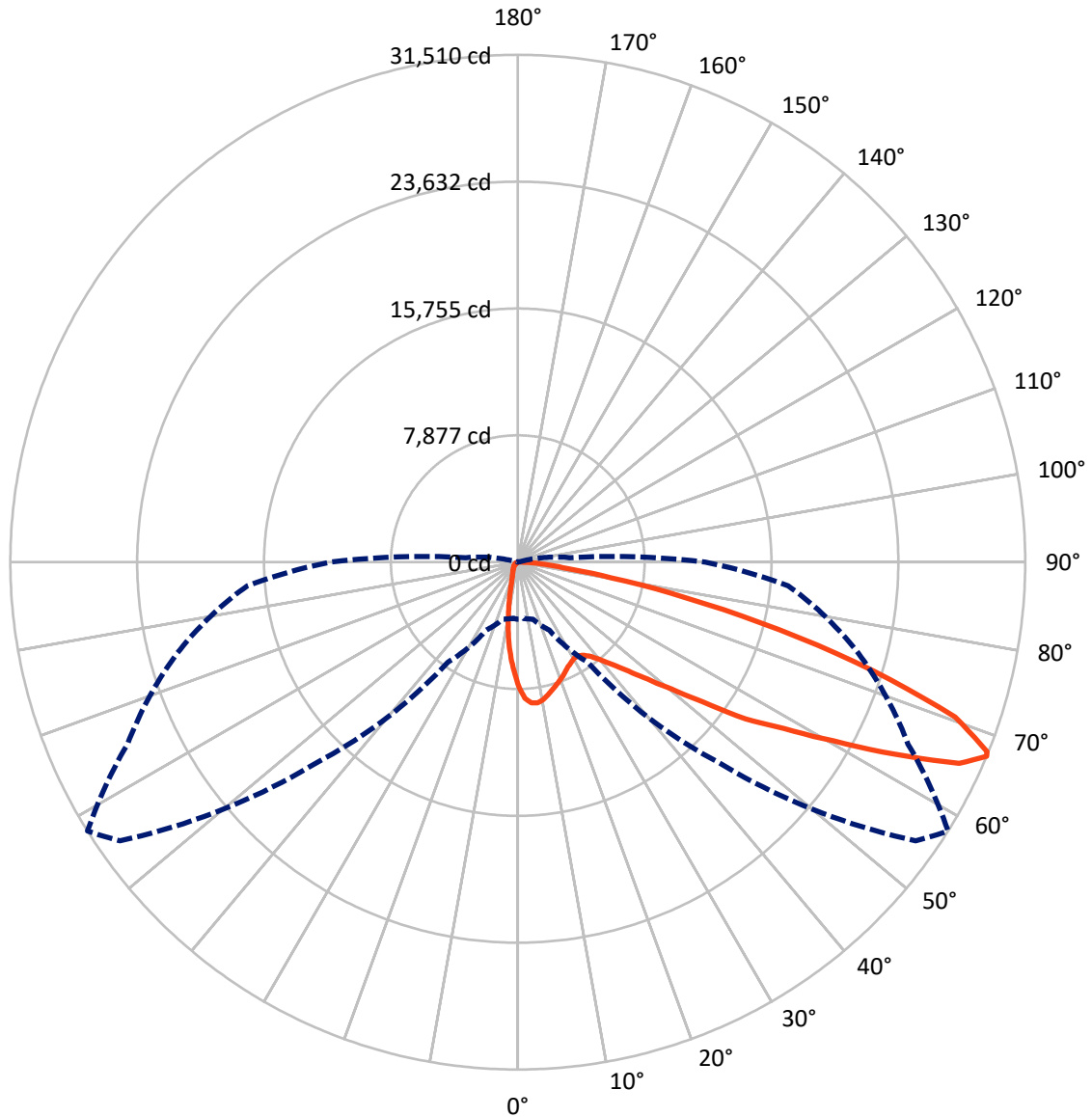
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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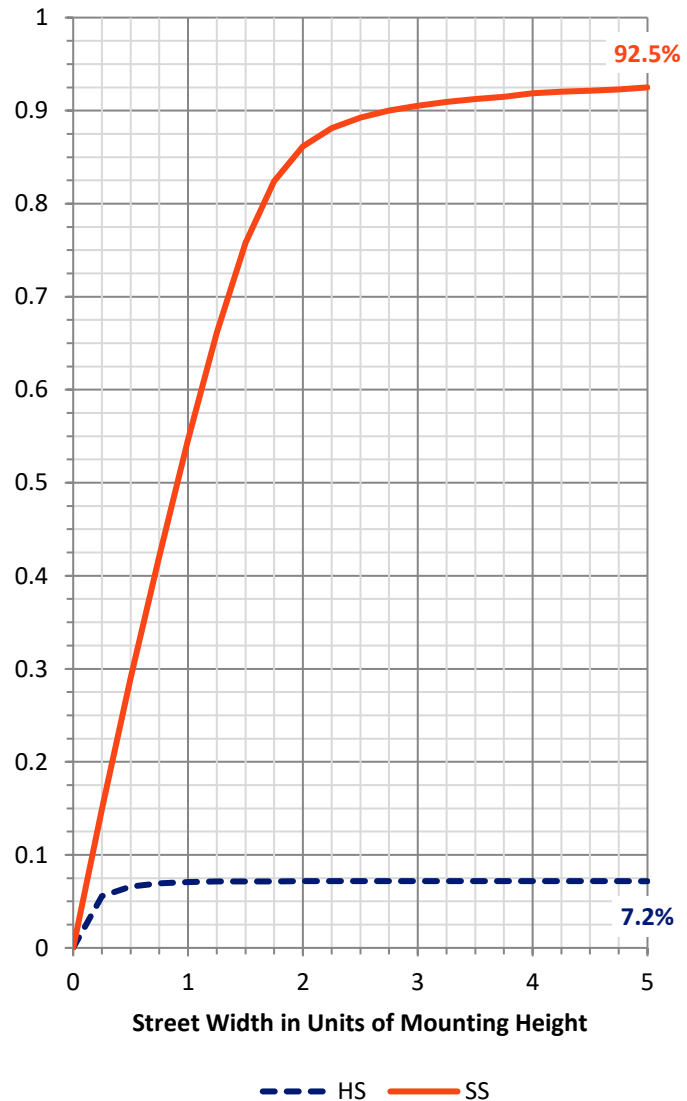
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2106.2	0.0	2106.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27079.8	0.0	27079.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	29186.0	0.0	29186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.8	2.2
10°-20°	1356.0	4.6
20°-30°	1837.4	6.3
30°-40°	2548.4	8.7
40°-50°	4064.4	13.9
50°-60°	7025.7	24.1
60°-70°	8025.6	27.5
70°-80°	3345.9	11.5
80°-90°	354.8	1.2
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°	29186.0	100.0
0°-180°	29186.0	100.0

Coefficient of Utilization

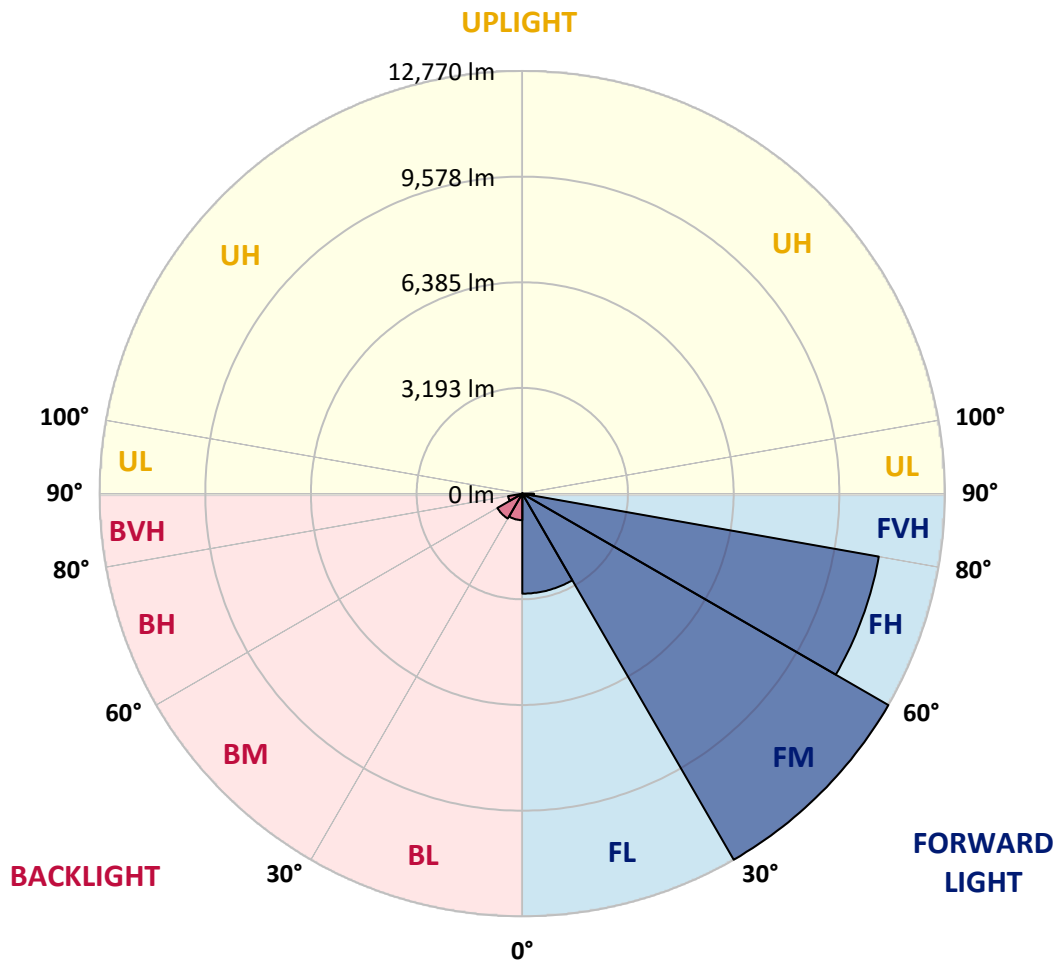


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.5	10.4			
FM (30°-60°)	12770.1	43.8			
FH (60°-80°)	10936.0	37.5			G4/12000
FVH (80°-90°)	352.2	1.2			G3/500
BL (0°-30°)	799.8	2.7	B2/1000		
BM (30°-60°)	868.5	3.0	B1/1000		
BH (60°-80°)	435.4	1.5	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9
2.5°	8979.3	8993.0	8942.2	8901.3	8796.0	8682.8	8532.7	8452.7	8316.2	8080.2	7818.9
5°	9189.9	9207.5	9199.7	9189.9	9149.0	9039.8	8848.6	8778.4	8577.5	8193.3	7721.3
7.5°	8721.9	8786.2	8794.0	8870.1	8942.2	8952.0	8879.8	8827.2	8641.9	8191.4	7547.8
10°	8101.7	8144.6	8207.0	8294.7	8468.3	8612.6	8682.8	8675.0	8567.8	8130.9	7344.9
12.5°	7475.6	7499.0	7594.6	7744.7	7957.3	8203.1	8390.3	8427.4	8429.3	8058.7	7175.2
15°	6937.3	6927.6	7001.7	7175.2	7473.6	7781.8	8117.3	8175.8	8269.4	7988.5	7017.3
17.5°	6477.0	6527.7	6539.4	6730.6	7005.6	7405.4	7832.5	7935.9	8123.1	7928.1	6886.6
20°	6192.3	6219.6	6244.9	6352.2	6599.9	7021.2	7565.3	7707.7	7986.6	7873.5	6740.3
22.5°	6108.4	6126.0	6104.5	6137.7	6313.2	6687.7	7274.7	7463.9	7855.9	7822.8	6621.4
25°	6172.8	6190.3	6139.6	6100.6	6161.1	6416.6	6993.9	7224.0	7750.6	7813.0	6531.6
27.5°	6328.8	6362.0	6291.7	6221.5	6186.4	6270.3	6773.5	7040.7	7678.4	7859.8	6490.7
30°	6572.6	6592.1	6539.4	6453.6	6373.7	6289.8	6658.4	6913.9	7658.9	7969.0	6486.8
32.5°	6837.8	6878.8	6849.5	6793.0	6689.6	6490.7	6691.6	6917.8	7705.7	8127.0	6535.5
35°	7165.5	7212.3	7239.6	7227.9	7095.3	6847.6	6902.2	7093.3	7830.6	8417.6	6668.2
37.5°	7487.3	7528.3	7682.3	7735.0	7618.0	7383.9	7311.8	7438.5	8105.6	8797.9	6908.1
40°	7855.9	7910.5	8127.0	8327.9	8271.3	8025.6	7893.0	7998.3	8526.8	9371.3	7362.5
42.5°	8208.9	8306.4	8636.0	8991.0	9043.7	8768.7	8680.9	8716.0	9150.9	10196.3	7996.3
45°	8710.2	8801.8	9227.0	9708.7	9956.4	9741.9	9652.2	9646.3	10007.1	11356.7	9024.2
47.5°	9433.7	9515.6	10016.9	10492.8	10933.5	10962.8	10793.1	10851.6	11083.7	12714.2	10284.1
50°	10321.1	10514.2	10843.8	11339.2	11928.2	12404.1	12456.7	12378.7	12577.6	14286.1	11797.5
52.5°	11610.3	11684.4	11986.7	12394.3	13084.7	13892.2	14518.2	14411.0	14348.5	15784.0	13326.6
55°	12571.8	12671.3	13141.3	13701.0	14713.3	15778.1	17135.6	17172.6	16384.7	17223.3	14822.5
57.5°	12281.2	12433.3	13145.2	14270.5	16495.9	18442.3	19452.5	19477.9	18268.7	18621.7	16511.5
60°	10789.2	10861.4	11881.4	13383.1	16648.0	21328.8	22738.8	22534.1	20185.9	20185.9	18003.5
62.5°	7651.1	7764.2	8591.2	10800.9	15035.1	22331.2	26674.6	26251.4	22826.6	21681.8	18892.8
65°	4889.5	4780.2	5328.3	6818.3	11200.7	20850.9	30101.3	30126.7	25311.3	22280.5	18407.2
67°	3541.8	3498.9	3656.9	4661.3	7594.6	17527.6	30173.5	31509.5	26739.0	21902.2	16854.7
67.5°	3239.5	3272.6	3387.7	4204.9	6900.3	15949.8	29845.8	31427.5	27060.8	21674.0	16293.0
70°	2455.5	2398.9	2523.7	2974.2	4136.6	10061.7	25674.1	28823.9	26660.9	19409.6	13018.4
72.5°	1806.0	1800.2	1973.7	2432.1	3184.9	5359.5	19273.1	23111.4	21781.2	14779.6	8197.2
75°	1219.0	1273.6	1550.5	2032.2	2886.5	3475.5	13139.3	16766.9	15120.9	8392.2	3350.7
77.5°	694.3	698.2	998.6	1632.4	2592.0	2796.8	7785.7	10681.9	8004.1	2790.9	994.7
80°	300.4	329.6	495.4	1185.8	2149.3	2476.9	4464.3	5870.5	3237.5	590.9	321.8
82.5°	111.2	130.7	218.4	729.4	1568.1	2040.0	2697.3	2802.6	1098.0	208.7	200.9
85°	0.0	3.9	80.0	341.3	817.2	910.8	1802.1	1661.7	485.6	99.5	130.7
87.5°	0.0	0.0	0.0	35.1	107.3	339.4	559.7	624.1	117.0	35.1	31.2
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°	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9	7736.9
2.5°	7678.4	7551.7	7233.8	6915.9	6679.9	6482.9	6186.4	6024.6	5938.7	5812.0	5819.8
5°	7485.3	7227.9	6668.2	6088.9	5620.8	5164.5	4618.4	4398.0	4212.7	4107.4	4037.2
7.5°	7198.7	6818.3	5989.4	5217.1	4497.5	3699.8	3101.0	2701.2	2432.1	2332.6	2237.0
10°	6884.6	6379.5	5301.0	4230.3	3231.7	2408.7	1901.6	1534.9	1404.2	1283.3	1295.0
12.5°	6594.0	5979.7	4669.1	3339.0	2264.3	1531.0	1193.6	1043.4	1000.5	986.9	986.9
15°	6356.1	5597.4	3990.4	2510.1	1552.5	1100.0	955.7	914.7	899.1	895.2	895.2
17.5°	6102.6	5234.7	3378.0	1854.8	1129.2	920.6	871.8	844.5	838.6	834.7	834.7
20°	5876.3	4870.0	2796.8	1380.8	912.8	828.9	797.7	780.1	774.3	770.4	772.3
22.5°	5661.8	4546.2	2250.7	1043.4	803.5	754.8	723.6	706.0	694.3	684.6	686.5
25°	5470.7	4234.2	1809.9	854.2	723.6	680.7	649.5	624.1	598.7	587.0	585.1
27.5°	5336.1	3961.1	1410.1	731.4	651.4	604.6	565.6	534.4	501.2	483.7	479.8
30°	5224.9	3684.2	1115.6	645.6	579.2	534.4	485.6	440.8	405.7	388.1	380.3
32.5°	5152.8	3420.9	879.6	575.3	518.8	464.2	409.6	364.7	325.7	308.2	304.3
35°	5141.1	3200.5	719.7	516.8	464.2	405.7	349.1	300.4	267.2	249.6	245.7
37.5°	5224.9	3030.8	602.7	470.0	419.3	355.0	292.5	247.7	218.4	204.8	202.8
40°	5449.2	2923.5	522.7	431.0	378.4	308.2	249.6	210.6	181.4	167.7	167.7
42.5°	5876.3	2927.4	470.0	394.0	337.4	263.3	212.6	175.5	150.2	138.5	134.6
45°	6543.3	3060.1	425.2	356.9	298.4	228.2	181.4	144.3	119.0	109.2	109.2
47.5°	7436.6	3323.4	386.2	319.9	263.3	195.0	154.1	117.0	95.6	85.8	85.8
50°	8604.8	3746.6	353.0	288.6	234.0	167.7	124.8	95.6	74.1	66.3	64.4
52.5°	9825.7	4269.3	314.0	261.3	200.9	142.4	101.4	74.1	56.6	50.7	48.8
55°	11173.4	4780.2	276.9	234.0	163.8	119.0	80.0	58.5	41.0	35.1	35.1
57.5°	12532.8	5281.5	232.1	195.0	128.7	87.8	62.4	42.9	27.3	21.5	21.5
60°	13683.5	5443.4	197.0	158.0	97.5	62.4	44.9	27.3	15.6	9.8	9.8
62.5°	13841.5	4897.3	165.8	120.9	70.2	42.9	23.4	15.6	5.9	3.9	3.9
65°	12983.3	3978.7	138.5	91.7	46.8	21.5	9.8	5.9	2.0	0.0	0.0
67°	11633.7	3225.8	113.1	68.3	33.2	13.7	5.9	2.0	0.0	0.0	0.0
67.5°	11288.5	3075.7	109.2	64.4	29.3	11.7	3.9	2.0	0.0	0.0	0.0
70°	8858.4	2303.3	78.0	39.0	17.6	7.8	0.0	0.0	0.0	0.0	0.0
72.5°	5505.8	1302.8	56.6	23.4	11.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	2081.0	456.4	39.0	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	647.5	173.6	23.4	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	218.4	66.3	15.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	134.6	27.3	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	83.9	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	3.9	2.0	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)