

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: P531623

Luminaire Tested: **GALN-SA6D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21769 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

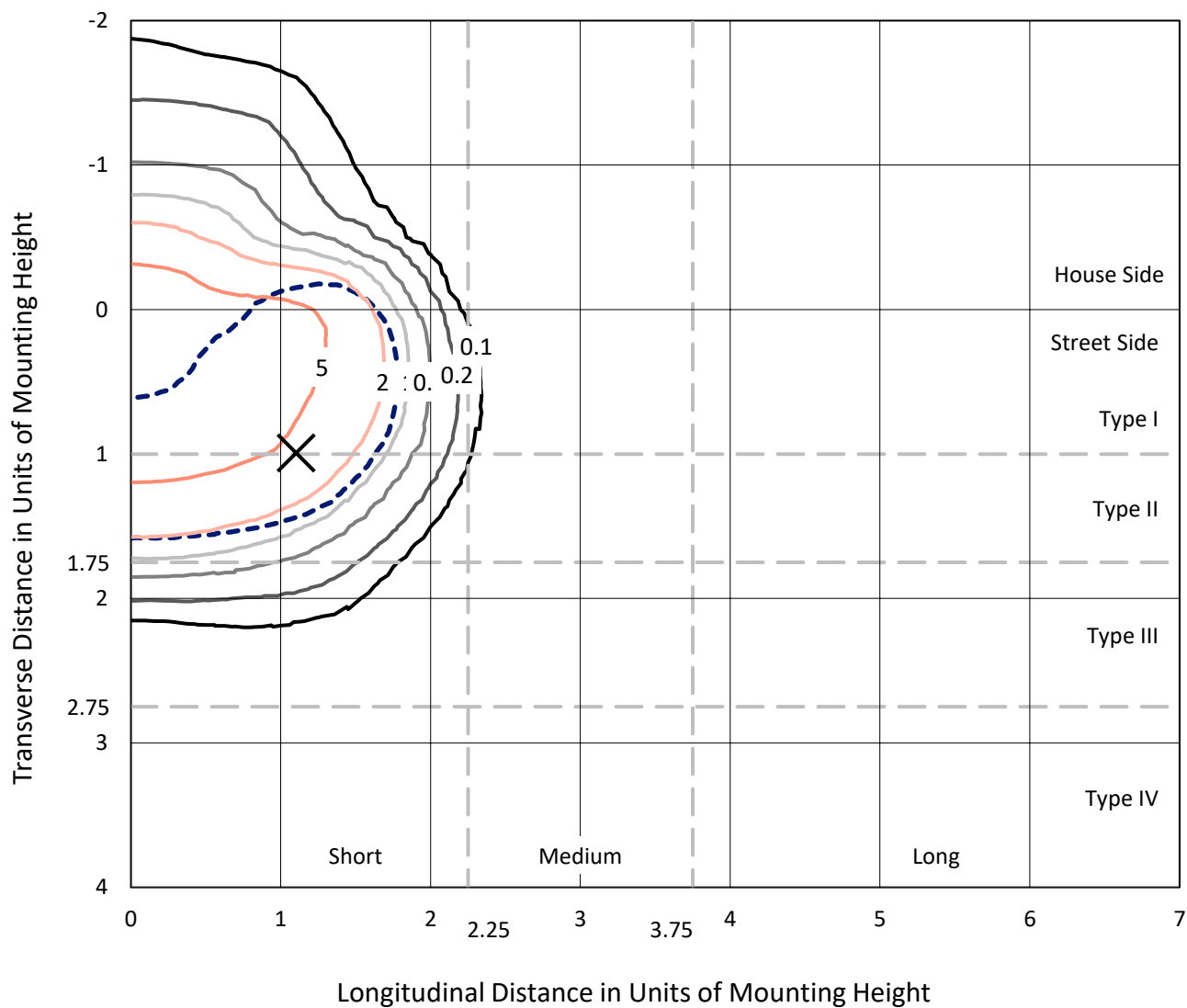
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

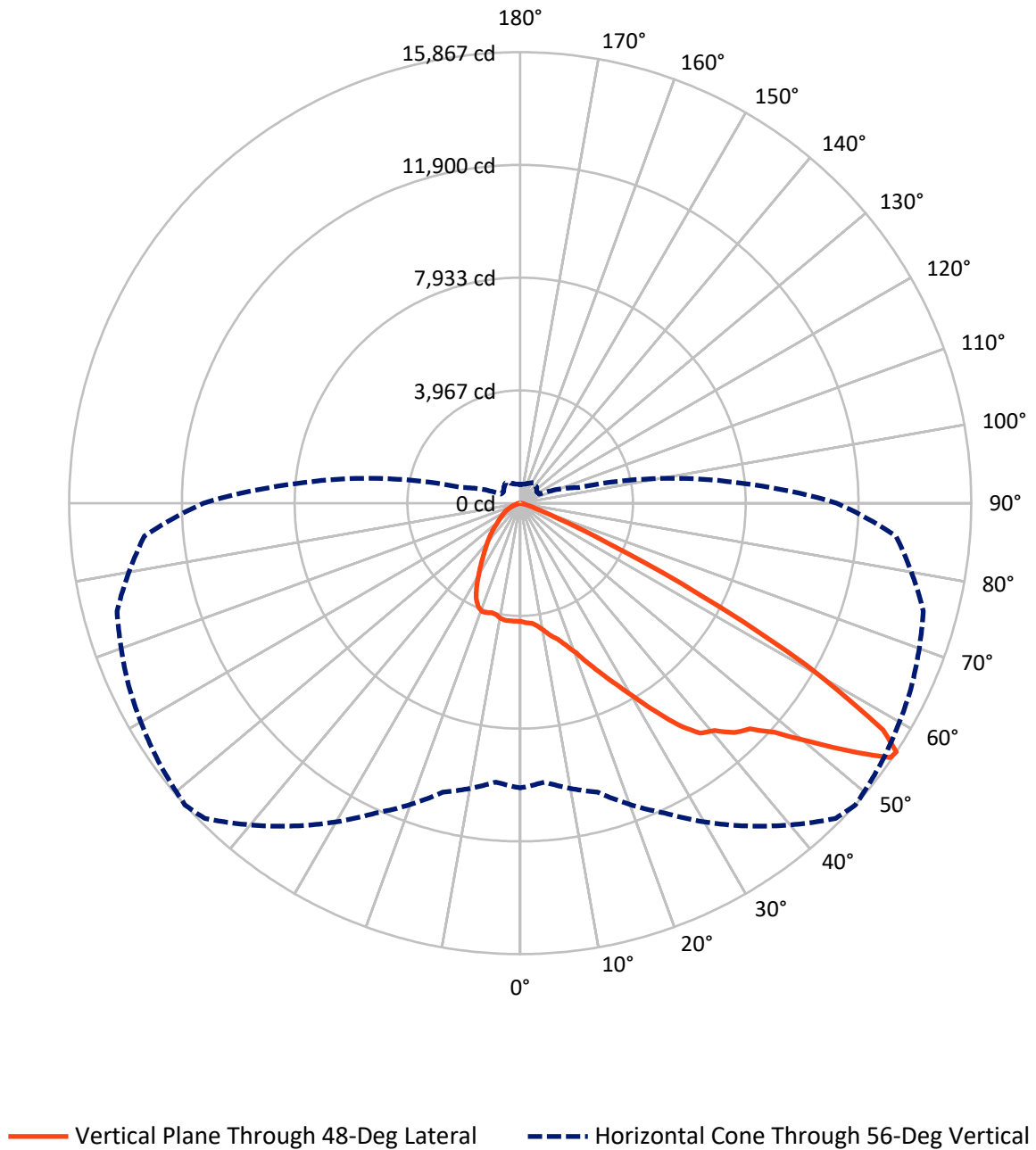
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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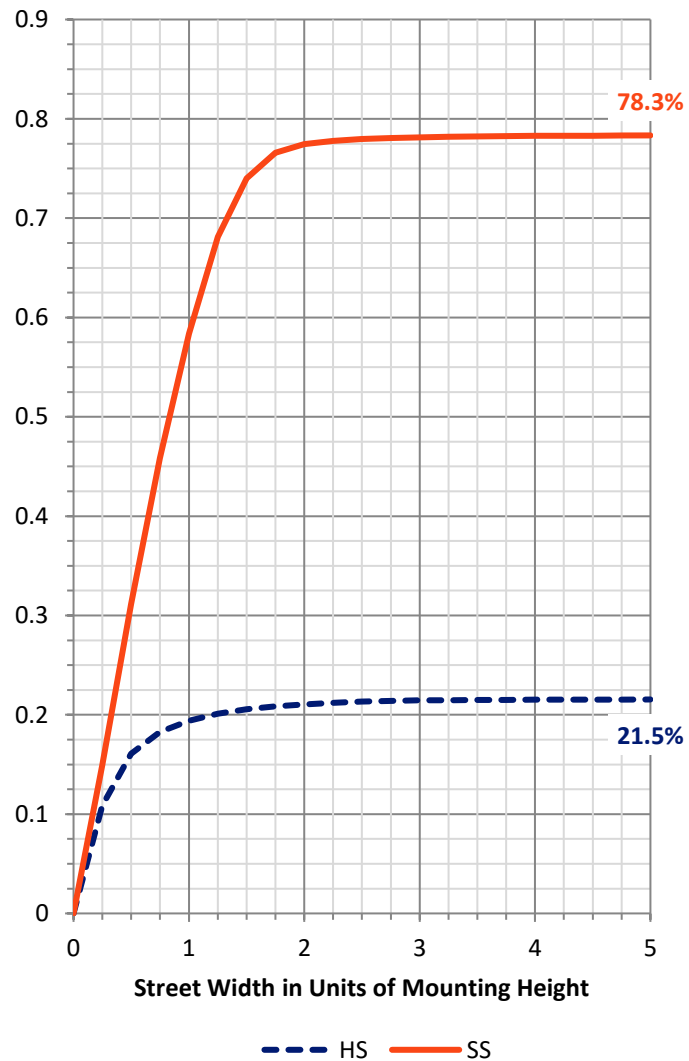
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4734.3	0.0	4734.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17034.7	0.0	17034.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	21769.0	0.0	21769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	1.9
10°-20°	1294.4	5.9
20°-30°	2347.8	10.8
30°-40°	3687.9	16.9
40°-50°	5379.9	24.7
50°-60°	6481.8	29.8
60°-70°	1897.8	8.7
70°-80°	240.7	1.1
80°-90°	33.8	0.2
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°	21769.0	100.0
0°-180°	21769.0	100.0

Coefficient of Utilization



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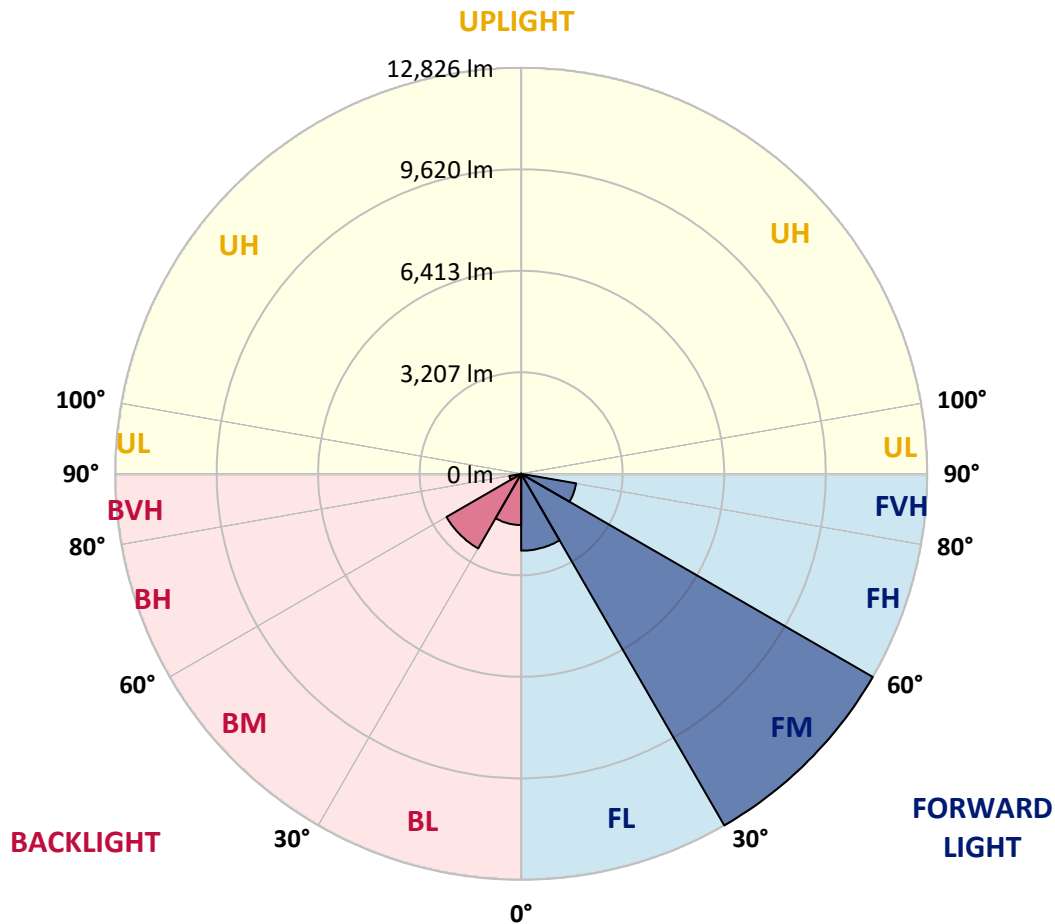
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2429.0	11.2			
FM	(30°-60°)	12826.4	58.9			
FH	(60°-80°)	1762.4	8.1			G1/1800
FVH	(80°-90°)	17.0	0.1			G1/100
BL	(0°-30°)	1618.2	7.4	B3/2500		
BM	(30°-60°)	2723.2	12.5	B3/5000		
BH	(60°-80°)	376.2	1.7	B1/500		G1/500
BVH	(80°-90°)	16.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9
2.5°	4233.2	4213.4	4213.4	4181.7	4217.3	4201.5	4213.4	4173.7	4213.4	4153.9	4201.5
5°	4253.0	4257.0	4241.1	4260.9	4260.9	4284.7	4245.1	4280.8	4300.6	4257.0	4237.2
7.5°	4356.1	4364.0	4360.0	4344.2	4375.9	4371.9	4368.0	4340.2	4348.1	4332.3	4308.5
10°	4558.2	4554.3	4574.1	4534.4	4510.7	4538.4	4546.3	4502.7	4471.0	4459.1	4383.8
12.5°	4851.5	4804.0	4776.2	4736.6	4748.5	4708.8	4780.2	4704.9	4689.0	4617.7	4542.4
15°	5089.4	5081.4	5085.4	5022.0	4950.6	4966.5	4966.5	4926.8	4903.1	4815.9	4708.8
17.5°	5576.9	5410.4	5446.1	5366.8	5307.4	5303.4	5267.7	5275.6	5212.2	5029.9	4867.4
20°	5957.4	5886.0	5830.6	5695.8	5604.6	5632.4	5616.5	5576.9	5557.1	5319.2	5089.4
22.5°	6298.3	6322.1	6230.9	6195.2	6068.4	6080.3	6112.0	6076.3	5925.7	5679.9	5339.1
25°	6777.9	6750.1	6627.3	6583.7	6464.7	6508.3	6631.2	6603.5	6508.3	6064.4	5533.3
27.5°	7344.7	7249.5	7273.3	7075.1	6960.2	7083.1	7229.7	7368.5	7098.9	6516.3	5763.2
30°	7745.0	7645.9	7638.0	7630.1	7602.3	7745.0	7915.4	8042.3	7824.3	6968.1	6143.7
32.5°	7943.2	7967.0	8034.4	8010.6	8252.4	8545.7	8724.0	8906.4	8632.9	7705.4	6647.1
35°	8470.4	8319.7	8470.4	8486.2	8735.9	9358.2	9584.2	10020.2	9952.8	8747.8	7261.4
37.5°	8779.5	8767.6	8787.5	8938.1	9179.9	9948.8	10269.9	10606.8	10479.9	9374.1	8026.4
40°	9290.8	9322.5	9318.6	9433.5	9699.1	10392.7	10523.5	10797.0	10808.9	10242.1	9152.1
42.5°	10111.3	9984.5	9901.2	10020.2	10392.7	10777.2	11038.8	10983.3	11375.7	11296.5	10598.8
45°	10848.6	10923.9	10801.0	10999.2	11133.9	11340.1	11332.1	11451.0	11950.5	12327.0	11688.9
47.5°	11538.2	11585.8	11645.3	11780.0	12073.3	12105.0	12037.7	11986.1	12675.8	13064.3	12533.1
50°	11950.5	11994.1	12271.5	12513.3	13060.3	13131.6	13171.3	13040.5	13508.2	13551.8	13329.8
52.5°	11839.5	11887.0	12275.5	13072.2	13944.2	14598.2	14479.3	14257.3	14229.6	14400.0	14067.1
55°	10856.5	10812.9	11348.0	12588.6	14221.6	15791.3	15807.1	15573.3	15125.4	15010.4	13956.1
56°	10020.2	9849.7	10531.5	12029.7	13864.9	15688.2	15866.6	15616.9	15196.7	14681.4	13270.4
57.5°	8208.8	8371.3	9049.1	10289.7	12632.2	14947.0	15050.0	14990.6	14673.5	13809.4	11677.0
60°	4526.5	4811.9	5410.4	6928.5	8993.6	11470.9	11554.1	12037.7	12097.1	10575.1	8034.4
62.5°	1922.4	1890.7	2513.0	3630.7	5121.1	6924.5	7079.1	7574.6	7665.7	6096.1	4031.1
65°	780.8	824.4	1137.6	1827.3	2707.2	3155.1	3373.1	3535.6	3836.8	2516.9	1486.4
67.5°	515.3	511.3	669.9	1042.4	1458.6	1407.1	1407.1	1486.4	1375.4	1026.6	642.1
70°	368.6	380.5	479.6	721.4	907.7	673.8	646.1	618.3	701.6	677.8	519.2
72.5°	241.8	257.6	321.1	432.0	471.7	368.6	368.6	443.9	578.7	547.0	424.1
75°	158.5	162.5	198.2	249.7	233.9	190.3	210.1	297.3	420.1	404.3	301.2
77.5°	107.0	111.0	134.8	162.5	130.8	107.0	114.9	150.6	206.1	206.1	158.5
80°	39.6	43.6	55.5	51.5	59.5	75.3	83.2	103.1	122.9	122.9	107.0
82.5°	0.0	4.0	11.9	27.7	43.6	59.5	67.4	79.3	91.2	103.1	99.1
85°	0.0	4.0	11.9	19.8	31.7	35.7	39.6	27.7	23.8	23.8	19.8
87.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	7.9	4.0	4.0
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°	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9
2.5°	4157.9	4153.9	4153.9	4142.0	4165.8	4153.9	4161.9	4157.9	4106.4	4146.0	4118.3
5°	4201.5	4229.2	4185.6	4177.7	4146.0	4157.9	4157.9	4118.3	4153.9	4150.0	4142.0
7.5°	4312.5	4264.9	4217.3	4169.8	4161.9	4150.0	4106.4	4090.5	4118.3	4086.5	4134.1
10°	4360.0	4368.0	4296.6	4233.2	4173.7	4090.5	4031.1	3995.4	3951.8	3999.3	4027.1
12.5°	4578.0	4498.8	4375.9	4276.8	4074.7	3991.4	3932.0	3916.1	3991.4	4007.3	3979.5
15°	4653.3	4641.5	4482.9	4260.9	4050.9	3951.8	3963.7	3932.0	3939.9	3900.2	3908.2
17.5°	4807.9	4673.2	4486.9	4209.4	4046.9	4023.1	3951.8	3824.9	3753.6	3721.9	3749.6
20°	4978.4	4847.6	4578.0	4229.2	4082.6	4019.2	3785.3	3630.7	3484.1	3404.8	3408.8
22.5°	5129.0	4966.5	4538.4	4237.2	4114.3	3852.7	3571.3	3266.1	3083.7	2960.9	2964.8
25°	5311.3	5081.4	4554.3	4253.0	4031.1	3587.1	3182.8	2885.6	2667.5	2584.3	2612.1
27.5°	5414.4	5152.8	4641.5	4288.7	3813.0	3210.6	2774.6	2497.1	2370.3	2330.6	2326.7
30°	5723.5	5311.3	4748.5	4217.3	3448.4	2806.3	2402.0	2231.5	2108.7	2073.0	2080.9
32.5°	6183.3	5600.7	4887.2	4031.1	3075.8	2445.6	2160.2	2033.4	1918.4	1851.0	1843.1
35°	6567.8	6096.1	5033.9	3741.7	2643.8	2168.1	1989.8	1831.2	1656.8	1581.5	1561.7
37.5°	7301.1	6655.0	5002.1	3305.7	2231.5	1962.0	1807.4	1613.2	1462.6	1359.5	1347.6
40°	8276.1	7309.0	4847.6	2774.6	1926.3	1779.7	1613.2	1426.9	1240.6	1153.4	1145.5
42.5°	9461.3	8109.7	4566.1	2235.5	1621.1	1597.4	1446.7	1232.7	1066.2	1002.8	1006.8
45°	10424.4	8795.4	4280.8	1795.5	1395.2	1419.0	1288.2	1086.0	971.1	919.6	919.6
47.5°	11280.6	9259.1	3971.6	1482.4	1185.1	1240.6	1125.7	1006.8	907.7	868.0	860.1
50°	12105.0	9730.8	3662.4	1201.0	1010.7	1066.2	1054.3	959.2	879.9	832.4	836.3
52.5°	12620.3	9806.1	3270.0	983.0	883.9	947.3	987.0	899.8	812.6	784.8	776.9
55°	11990.1	8835.0	2536.7	808.6	749.1	832.4	907.7	808.6	741.2	693.6	689.7
56°	11141.9	7899.6	2120.6	745.2	709.5	800.7	879.9	772.9	697.6	669.9	650.0
57.5°	9433.5	6464.7	1565.6	661.9	658.0	745.2	836.3	737.2	650.0	626.3	626.3
60°	5882.1	3638.6	947.3	554.9	570.8	661.9	753.1	658.0	578.7	578.7	590.6
62.5°	2679.4	1514.1	574.7	471.7	491.5	570.8	669.9	594.6	550.9	594.6	602.5
65°	911.6	654.0	416.2	376.5	388.4	471.7	574.7	602.5	598.5	626.3	642.1
67.5°	511.3	420.1	348.8	313.1	305.2	348.8	471.7	602.5	578.7	566.8	574.7
70°	432.0	356.7	309.2	277.5	265.6	281.4	364.7	455.8	408.3	396.4	388.4
72.5°	348.8	297.3	269.5	249.7	214.0	182.3	166.5	174.4	194.2	206.1	225.9
75°	245.7	225.9	225.9	202.1	154.6	114.9	91.2	75.3	51.5	35.7	39.6
77.5°	138.7	138.7	142.7	122.9	99.1	75.3	55.5	39.6	19.8	7.9	4.0
80°	95.1	103.1	111.0	99.1	83.2	67.4	47.6	27.7	11.9	0.0	0.0
82.5°	95.1	107.0	114.9	99.1	83.2	63.4	47.6	27.7	11.9	4.0	0.0
85°	19.8	23.8	27.7	31.7	47.6	47.6	35.7	23.8	11.9	4.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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)