

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: P192978

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35674.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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: 25 FT

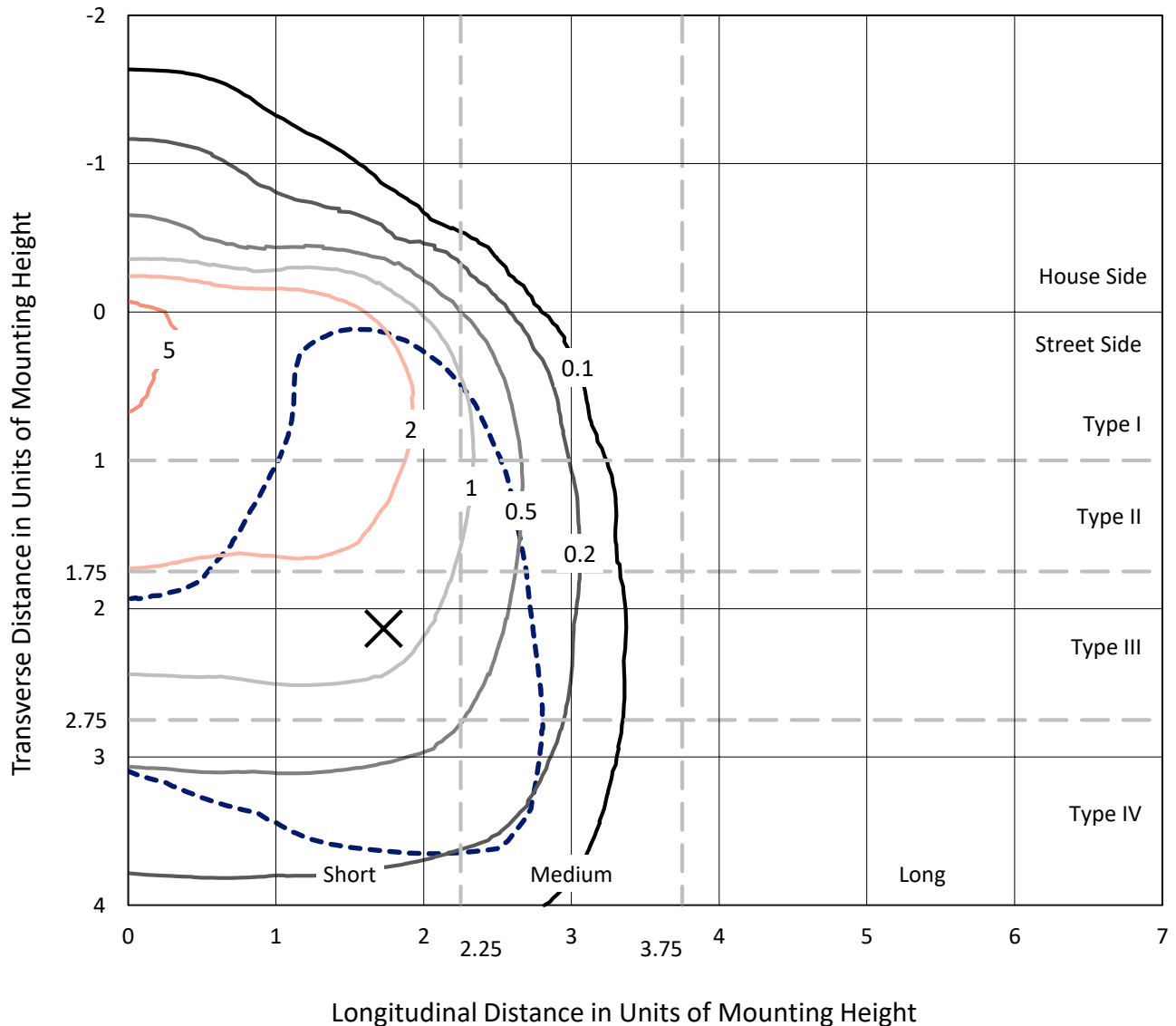


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Iso-Footcandle Lines of Horizontal Illumination

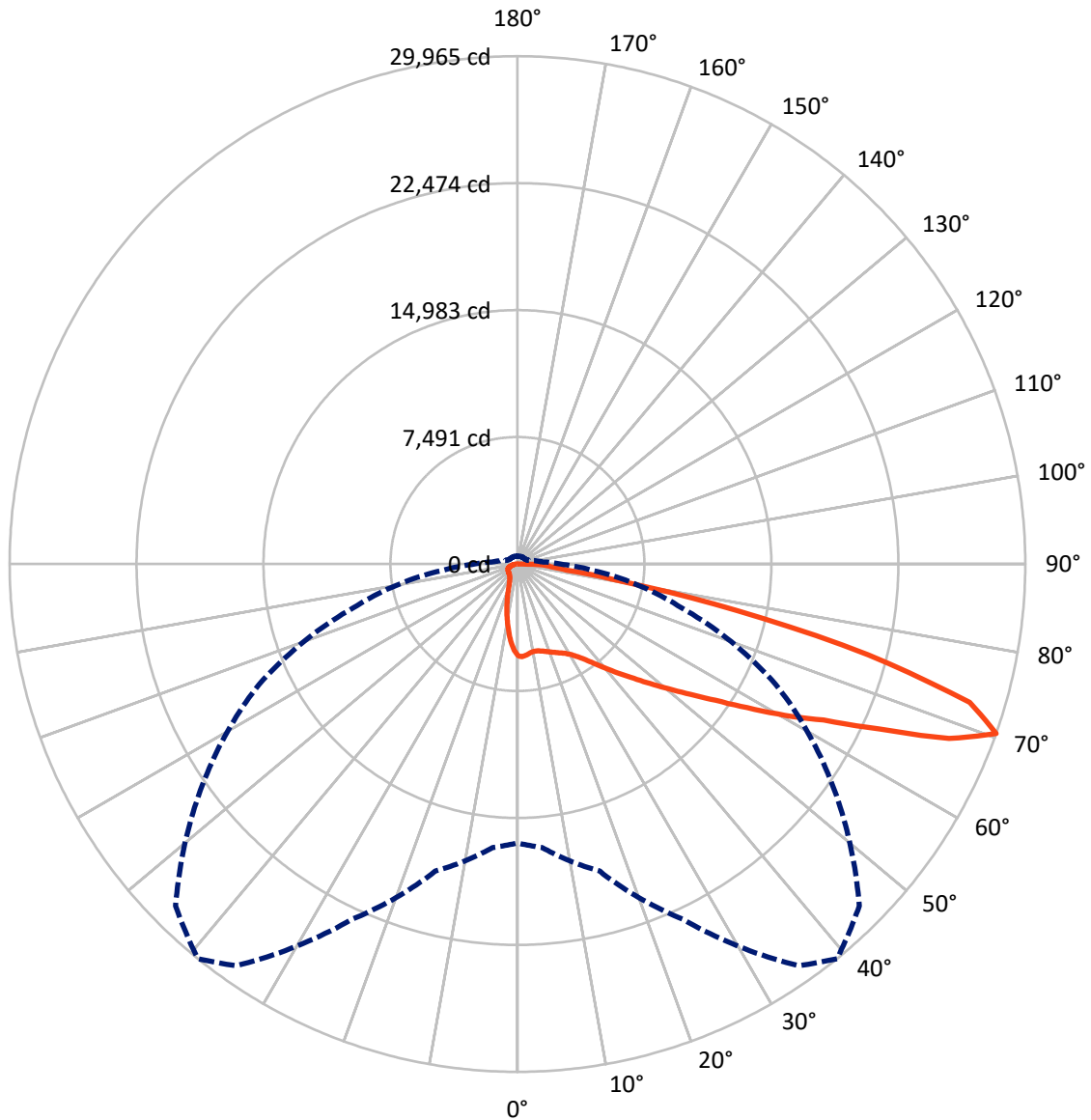
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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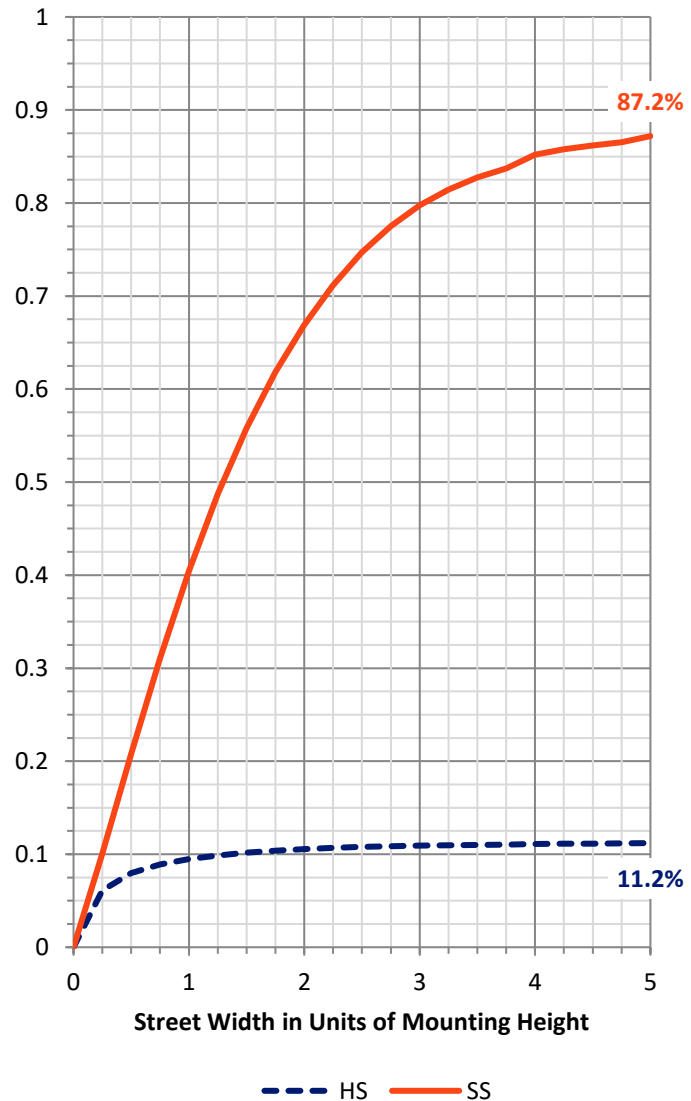
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4057.3	0.0	4057.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	31616.9	0.0	31616.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	35674.2	0.0	35674.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.8	1.3
10°-20°	1161.8	3.3
20°-30°	1808.9	5.1
30°-40°	2818.0	7.9
40°-50°	4730.9	13.3
50°-60°	7515.5	21.1
60°-70°	10024.8	28.1
70°-80°	6053.8	17.0
80°-90°	1095.6	3.1
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°	35674.2	100.0
0°-180°	35674.2	100.0



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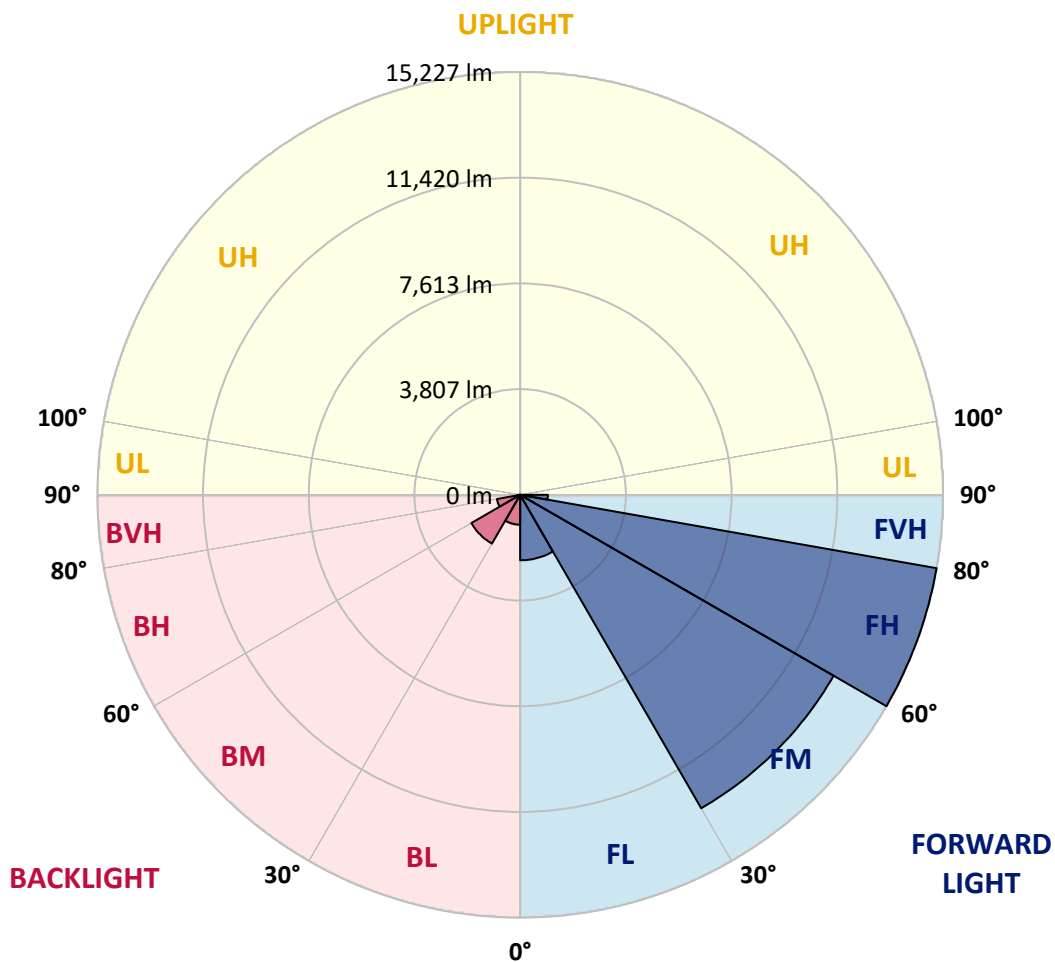
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2359.2	6.6			
FM	(30°-60°)	13034.0	36.5			
FH	(60°-80°)	15226.8	42.7			G5
FVH	(80°-90°)	996.9	2.8			G5
BL	(0°-30°)	1076.3	3.0	B3/2500		
BM	(30°-60°)	2030.5	5.7	B2/2500		
BH	(60°-80°)	851.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	98.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9
2.5°	5521.1	5519.3	5504.8	5493.9	5484.9	5481.2	5488.4	5461.3	5437.7	5408.7	5377.8
5°	5479.4	5477.6	5454.0	5432.3	5410.4	5403.2	5401.3	5352.4	5323.4	5279.9	5221.8
7.5°	5434.0	5424.9	5394.1	5357.8	5319.8	5301.6	5283.4	5220.0	5187.4	5143.8	5076.7
10°	5386.9	5376.0	5346.9	5310.6	5274.4	5247.1	5216.4	5154.8	5120.2	5087.6	5009.6
12.5°	5337.9	5328.8	5321.6	5305.3	5279.9	5256.3	5232.8	5180.1	5143.8	5105.8	5015.1
15°	5330.6	5327.1	5343.4	5354.2	5339.7	5325.2	5299.8	5254.5	5216.4	5178.4	5060.5
17.5°	5388.6	5386.9	5428.5	5457.6	5450.4	5424.9	5390.6	5339.7	5308.9	5276.2	5129.2
20°	5515.6	5524.7	5575.5	5613.6	5577.3	5541.1	5484.9	5414.2	5397.7	5383.2	5200.0
22.5°	5755.1	5764.2	5800.5	5814.9	5720.6	5668.1	5590.0	5499.3	5488.4	5499.3	5285.3
25°	6128.7	6119.6	6114.1	6059.7	5887.4	5805.8	5706.1	5611.8	5617.2	5666.1	5405.0
27.5°	6623.9	6574.9	6498.7	6335.5	6061.6	5970.9	5849.4	5762.4	5796.8	5891.2	5584.6
30°	7137.2	7082.7	6906.9	6640.2	6290.2	6190.4	6054.4	5956.4	6047.1	6195.9	5823.9
32.5°	7612.4	7605.1	7347.5	7004.7	6605.7	6518.6	6382.6	6272.0	6418.9	6645.5	6183.1
35°	8131.1	8147.5	7839.2	7427.3	7031.9	6941.2	6843.4	6759.9	6955.8	7267.7	6703.7
37.5°	8686.1	8718.8	8354.2	7889.8	7518.0	7480.0	7422.0	7385.6	7688.6	8120.2	7431.0
40°	9428.0	9395.3	8889.3	8412.2	8114.8	8112.9	8094.8	8138.4	8642.6	9233.8	8365.1
42.5°	10222.4	10126.2	9456.9	8972.7	8769.5	8831.2	8867.5	9045.2	9790.7	10586.9	9504.1
45°	11078.5	10862.7	10046.5	9565.7	9497.0	9627.5	9750.9	10137.2	11141.9	12126.8	10751.9
47.5°	11762.3	11553.7	10655.8	10187.9	10338.4	10536.2	10773.7	11385.1	12654.6	13717.5	11983.5
50°	12301.0	12164.9	11270.7	10913.5	11265.2	11570.0	11958.2	12798.0	14229.0	15266.5	13124.4
52.5°	12823.3	12721.7	11891.0	11657.1	12353.5	12774.4	13302.2	14314.3	15843.2	16790.0	14083.8
55°	13294.8	13222.3	12558.5	12583.9	13634.0	14181.9	14845.7	16040.9	17602.5	18148.5	14896.4
57.5°	13826.3	13733.8	13320.4	13746.6	15279.2	15990.2	16853.5	17981.7	19253.1	19356.5	15515.0
60°	14361.4	14281.6	14165.5	15088.7	17368.6	18115.8	18933.9	19862.6	20927.2	20294.3	15478.6
62.5°	14825.7	14834.7	15039.7	16498.0	19414.5	20279.7	21277.2	22195.0	22441.8	20457.4	14334.2
65°	15612.9	15756.2	16367.4	18493.1	22294.8	23452.0	24676.3	24529.4	22860.7	18932.1	11880.2
67.5°	16548.9	16800.9	18039.7	21152.1	25935.0	27471.3	27944.7	25057.2	21182.9	15389.8	8468.4
70°	16454.5	16800.9	18761.6	23134.5	28935.0	29965.2	28528.6	22677.6	16820.9	10053.7	4498.1
72.5°	14611.7	15106.8	17290.6	22225.8	27990.0	27899.4	24767.0	16906.1	9993.8	4037.4	1757.6
75°	11136.5	11637.1	13516.1	17559.0	22122.5	21360.7	17573.6	9339.1	3792.6	1603.4	1108.2
77.5°	6406.2	6794.4	8245.4	10768.4	14034.9	13253.1	9781.7	4153.5	1846.4	1117.2	865.2
80°	3576.7	3792.6	4674.1	5463.1	6877.8	6304.7	4376.6	2581.0	1378.5	810.7	667.5
82.5°	2827.6	3019.9	3780.0	3446.1	3141.4	2898.4	2513.8	2298.0	1101.0	511.5	399.1
85°	2470.4	2653.6	3199.4	2713.4	2145.7	1968.0	2042.3	2261.7	856.0	308.3	341.0
87.5°	2289.0	2533.8	2851.2	2091.2	1670.5	1480.0	1884.5	2479.4	275.7	192.3	137.8
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°	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9	5415.9
2.5°	5350.7	5321.6	5274.4	5232.8	5167.4	5133.0	5094.9	5067.7	5045.9	5027.8	5056.7
5°	5185.6	5131.2	5031.4	4924.5	4797.3	4697.6	4614.2	4536.2	4481.9	4445.5	4470.9
7.5°	5029.5	4940.7	4784.7	4590.6	4373.0	4188.0	4035.6	3901.4	3808.9	3749.0	3772.6
10°	4940.7	4830.1	4588.8	4284.2	3963.1	3674.7	3435.2	3228.5	3085.3	3003.6	3016.3
12.5°	4919.0	4775.6	4441.9	4022.9	3584.0	3183.2	2845.7	2559.2	2358.0	2252.7	2256.3
15°	4935.2	4752.0	4304.0	3772.6	3217.5	2711.6	2290.8	1942.5	1708.6	1588.8	1587.0
17.5°	4962.4	4733.8	4159.0	3502.5	2845.7	2258.2	1788.3	1447.3	1240.6	1144.5	1137.3
20°	4991.5	4704.9	3995.7	3210.4	2459.4	1837.3	1400.2	1133.6	1003.0	950.4	946.7
22.5°	5033.2	4679.5	3827.1	2902.0	2080.4	1496.3	1151.7	972.2	903.2	876.0	872.4
25°	5100.3	4666.8	3647.5	2581.0	1739.4	1251.4	1003.0	892.3	852.4	834.3	832.5
27.5°	5212.8	4684.9	3478.9	2269.0	1461.9	1086.5	919.5	852.4	823.5	807.1	805.4
30°	5357.8	4741.2	3301.0	1973.3	1246.1	974.0	868.8	825.2	801.6	785.3	785.3
32.5°	5599.1	4835.5	3114.2	1717.7	1091.9	896.0	830.7	801.6	781.7	769.0	767.2
35°	5954.6	5013.3	2940.1	1505.4	981.2	839.7	798.0	776.3	761.7	754.6	754.6
37.5°	6471.5	5294.3	2785.9	1353.0	914.2	801.6	767.2	750.9	741.9	741.9	741.9
40°	7166.2	5682.6	2660.8	1251.4	876.0	774.4	743.6	731.0	725.5	727.3	727.3
42.5°	8024.1	6186.8	2577.3	1180.8	857.9	758.1	727.3	716.4	710.9	709.2	710.9
45°	9001.8	6759.9	2568.2	1128.2	839.7	747.3	716.4	705.6	694.7	687.5	687.5
47.5°	9952.1	7342.1	2642.7	1110.1	819.8	734.6	707.4	696.5	680.1	663.9	663.9
50°	10791.9	7837.2	2742.4	1117.2	812.6	716.4	692.8	687.5	662.0	643.9	642.1
52.5°	11459.3	8218.2	2824.1	1139.0	819.8	703.7	674.6	676.6	649.3	629.4	627.5
55°	11994.5	8468.4	2802.3	1160.8	836.2	696.5	658.4	662.0	640.3	620.3	620.3
57.5°	12228.4	8376.0	2561.0	1142.7	848.8	698.2	645.7	660.3	642.1	624.0	624.0
60°	11726.0	7554.3	2109.4	1062.9	832.5	692.8	640.3	667.5	665.6	647.5	645.7
62.5°	10206.0	6083.3	1636.0	945.0	776.3	665.6	625.7	665.6	685.6	680.1	678.4
65°	7866.3	4333.1	1249.7	818.1	700.2	620.3	587.7	624.0	651.1	658.4	656.5
67.5°	5105.8	2655.3	963.1	698.2	614.9	567.7	538.6	555.0	560.5	560.5	556.7
70°	2510.2	1429.2	767.2	587.7	527.8	511.5	495.2	486.1	477.0	469.9	469.9
72.5°	1238.8	934.0	631.2	497.0	455.3	448.0	444.3	433.5	426.2	417.2	413.5
75°	915.9	760.0	536.9	419.0	391.8	384.5	391.8	382.7	380.9	373.6	370.1
77.5°	752.7	647.5	462.5	359.1	335.5	322.9	333.8	335.5	337.4	326.4	322.9
80°	611.2	547.7	386.3	297.4	275.7	266.6	273.9	288.3	292.0	275.7	268.4
82.5°	440.8	448.0	311.9	232.1	214.0	206.7	221.2	239.4	243.0	219.5	214.0
85°	370.1	373.6	239.4	165.1	147.0	136.0	159.6	177.8	190.4	166.8	161.3
87.5°	154.2	219.5	137.8	92.6	81.6	70.7	85.2	94.3	114.2	105.2	103.4
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)