

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: P383136

Luminaire Tested: **GLEON-SA4D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24150.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

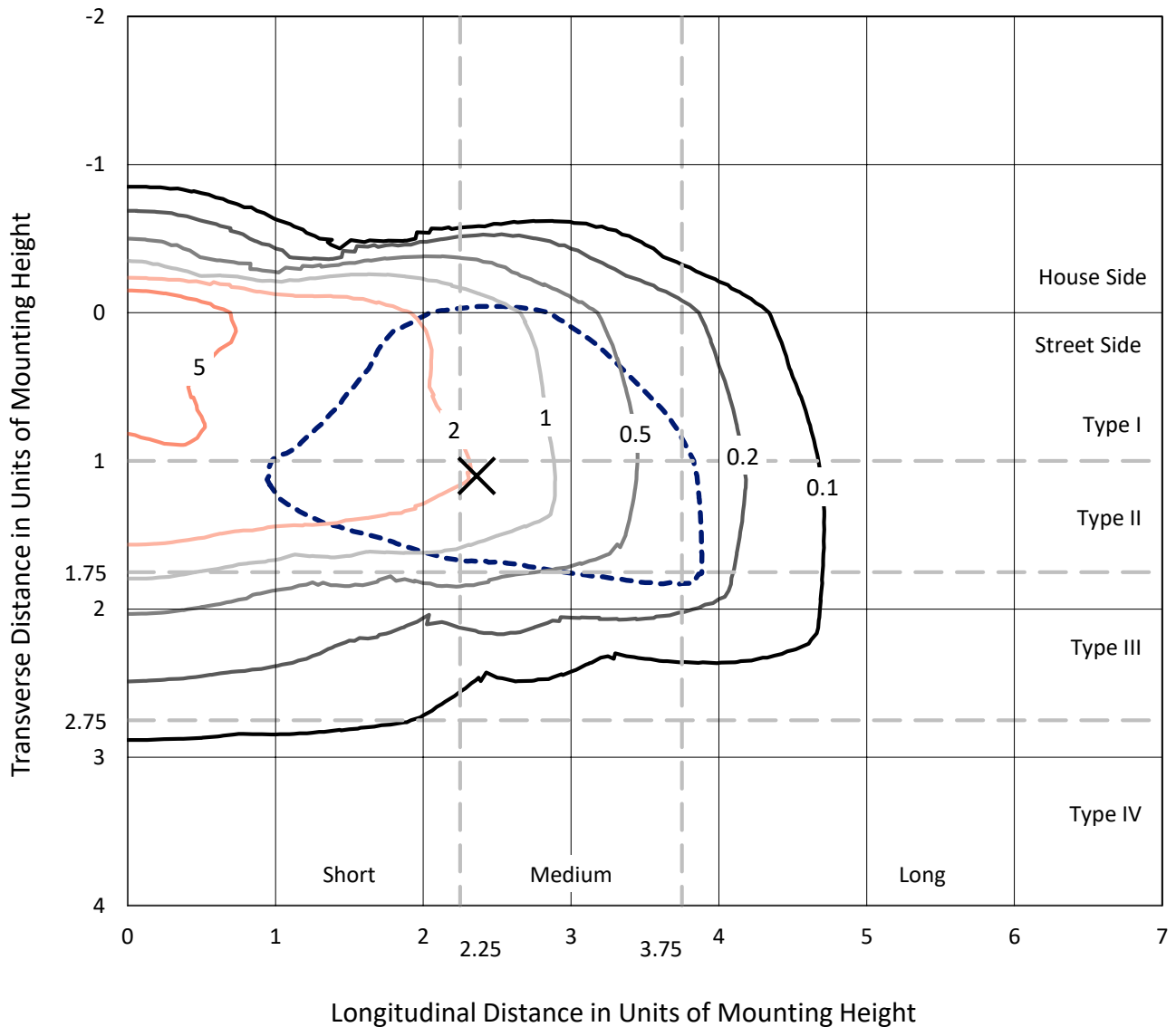




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Iso-Footcandle Lines of Horizontal Illumination

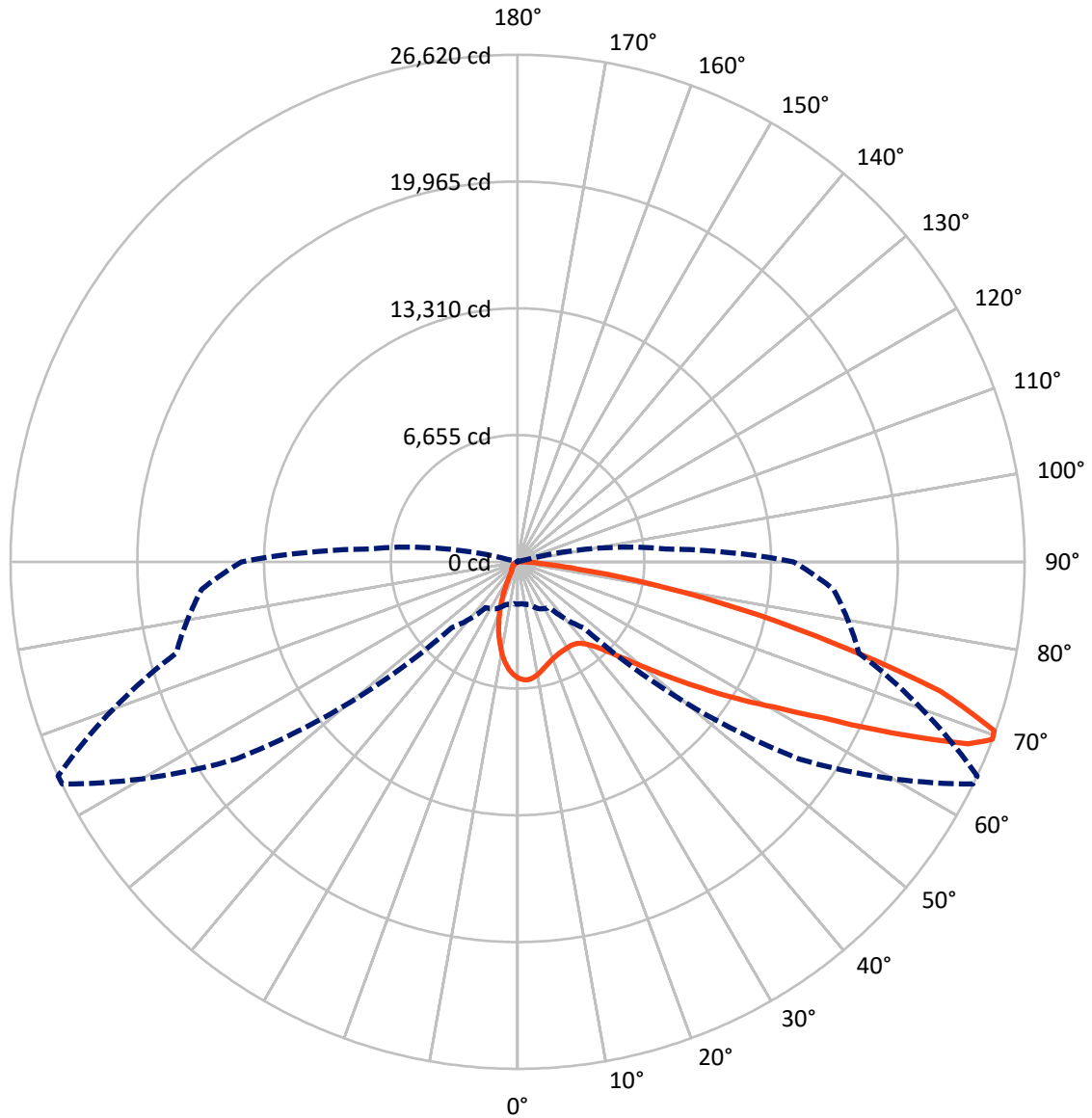
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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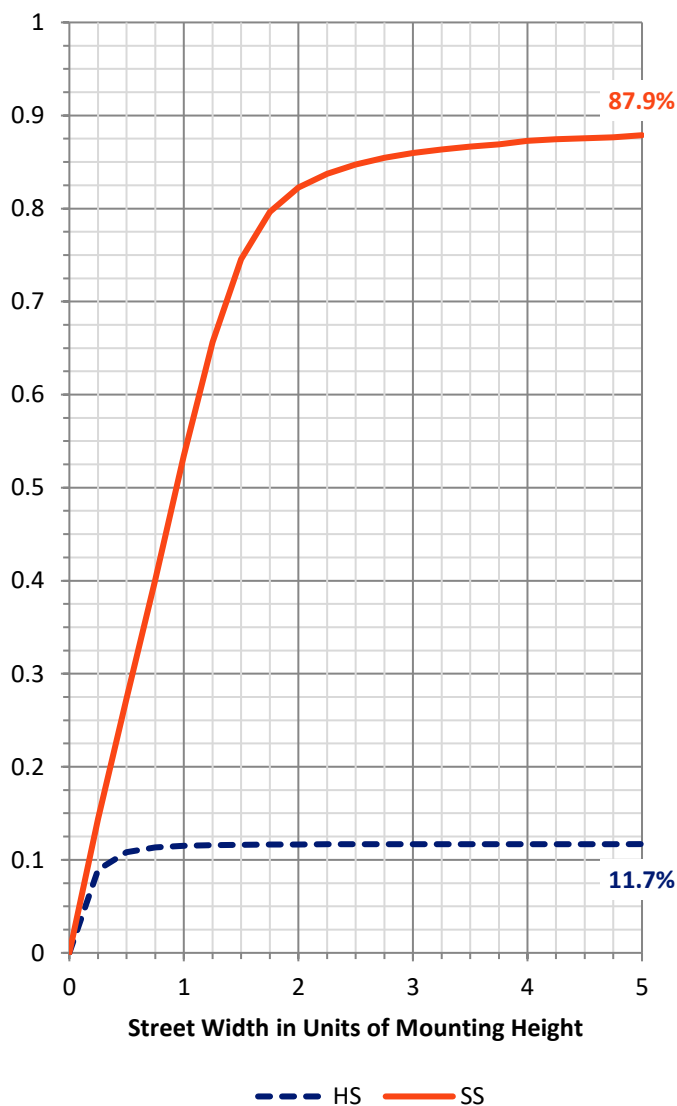
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2846.8	0.0	2846.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21303.6	0.0	21303.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	24150.4	0.0	24150.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.3	2.1
10°-20°	1117.1	4.6
20°-30°	1547.3	6.4
30°-40°	2157.4	8.9
40°-50°	3353.3	13.9
50°-60°	5383.3	22.3
60°-70°	6089.4	25.2
70°-80°	3576.4	14.8
80°-90°	416.0	1.7
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°	24150.4	100.0
0°-180°	24150.4	100.0

Coefficient of Utilization

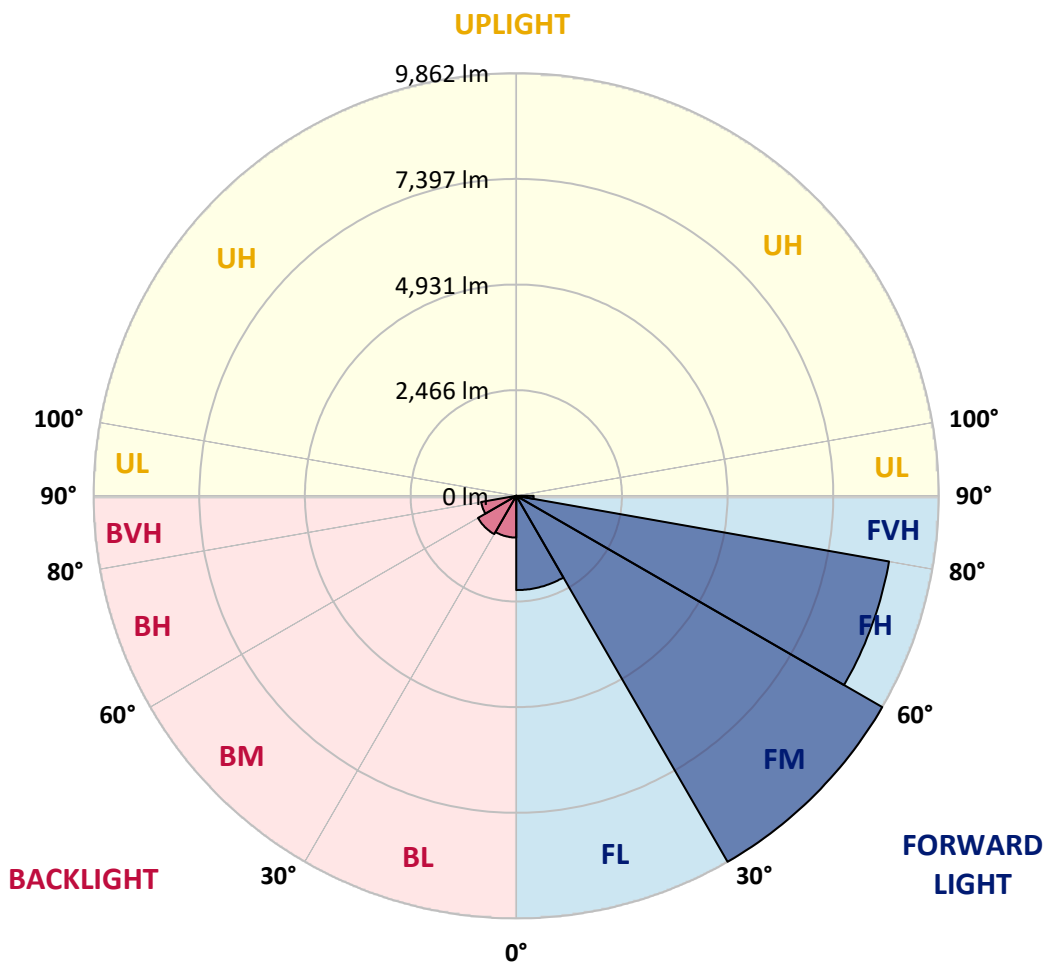


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2200.7	9.1			
FM (30°-60°)	9862.3	40.8			
FH (60°-80°)	8834.0	36.6			G4/12000
FVH (80°-90°)	406.7	1.7			G3/500
BL (0°-30°)	974.0	4.0	B2/1000		
BM (30°-60°)	1031.6	4.3	B2/2500		
BH (60°-80°)	831.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8
2.5°	6157.0	6141.7	6153.9	6180.5	6193.8	6193.8	6204.0	6191.7	6195.8	6166.2	6123.2
5°	5771.8	5748.2	5781.9	5856.5	5948.5	6027.2	6143.7	6205.0	6211.2	6212.2	6162.1
7.5°	5356.9	5335.3	5385.5	5473.3	5591.9	5738.1	5941.4	6119.1	6129.4	6225.4	6188.6
10°	5019.6	5004.3	5062.5	5156.6	5295.6	5459.1	5708.4	5955.7	5985.3	6197.9	6184.6
12.5°	4751.9	4739.6	4794.8	4903.1	5045.2	5226.1	5486.6	5773.8	5813.6	6135.5	6164.1
15°	4556.7	4554.6	4600.6	4704.9	4862.2	5030.8	5297.6	5605.2	5651.1	6068.1	6161.1
17.5°	4454.5	4457.5	4491.3	4580.2	4715.1	4882.7	5138.1	5463.2	5513.2	6007.8	6176.4
20°	4444.3	4447.4	4465.7	4515.8	4625.1	4773.3	5008.4	5343.5	5395.7	5962.8	6200.9
22.5°	4534.2	4532.2	4537.3	4532.2	4593.5	4705.9	4922.6	5251.6	5311.9	5933.2	6220.3
25°	4706.9	4703.8	4701.8	4664.0	4623.1	4683.4	4886.8	5199.4	5256.7	5911.8	6231.6
27.5°	4947.1	4945.0	4942.0	4879.6	4756.9	4719.2	4890.8	5180.1	5228.1	5894.4	6229.5
30°	5262.9	5277.1	5273.0	5186.2	4995.1	4828.5	4933.8	5169.8	5211.7	5860.6	6208.1
32.5°	5633.8	5662.4	5684.9	5591.9	5352.8	5045.2	5032.9	5181.1	5211.7	5835.1	6169.3
35°	6019.0	6055.8	6138.6	6105.9	5791.2	5371.1	5203.5	5248.5	5274.0	5849.4	6150.9
37.5°	6398.1	6442.1	6622.0	6717.0	6365.5	5802.4	5469.3	5415.1	5428.4	5936.3	6171.3
40°	6838.6	6905.0	7177.9	7331.2	7051.2	6379.8	5866.8	5701.3	5706.4	6127.3	6266.3
42.5°	7417.0	7485.5	7780.8	8021.0	7823.7	7109.4	6406.3	6138.6	6133.5	6485.1	6490.2
45°	8122.2	8193.7	8499.3	8766.0	8677.0	7974.0	7097.2	6777.3	6771.1	7049.1	6914.2
47.5°	8921.2	8991.8	9264.6	9539.5	9635.6	8983.6	7977.0	7649.0	7634.7	7832.9	7569.3
50°	9607.0	9653.0	9904.3	10274.3	10707.6	10224.2	9071.5	8755.7	8740.4	8874.3	8530.9
52.5°	9856.3	9882.9	10138.4	10656.4	11737.7	11904.2	10509.3	10102.6	10091.4	10149.6	9811.3
55°	9351.5	9399.5	9713.2	10481.7	12295.6	13802.9	12324.2	11770.4	11685.5	11559.9	11150.1
57.5°	7976.0	8052.7	8389.9	9411.8	12035.0	15309.2	14991.4	13656.8	13532.1	12763.6	12238.4
60°	5976.2	6070.2	6350.2	7452.8	10644.2	15845.7	17905.9	15758.9	15477.8	13722.2	13238.9
62.5°	4101.0	4147.9	4338.0	5056.4	7839.1	14966.9	20344.2	18574.2	18061.2	14764.6	14321.1
65°	3132.1	3148.5	3226.1	3473.5	4668.1	12157.6	21314.0	22288.9	21668.5	16011.3	15444.1
67.5°	2524.1	2510.8	2618.1	2971.7	3126.0	7417.0	20182.7	25803.2	25512.9	17678.0	16574.4
69°	2225.7	2207.3	2316.7	2727.5	2936.0	4903.1	18042.9	26601.3	26619.7	18557.8	16652.0
70°	2002.9	2015.2	2123.6	2582.3	2871.6	3848.5	15999.1	26397.9	26543.1	18886.9	16186.0
72.5°	1337.7	1370.4	1588.0	2144.0	2761.2	2912.5	9660.1	22652.6	23210.6	18146.1	13886.8
75°	754.2	778.7	1037.3	1616.7	2601.8	2773.5	5102.4	16688.8	17228.3	15174.4	10708.6
77.5°	369.9	383.2	586.6	1043.3	2175.6	2642.6	2894.0	11336.0	11952.2	9904.3	6056.8
80°	156.3	163.5	293.3	643.8	1555.3	2522.1	2149.1	6976.5	7053.2	3880.2	1613.6
82.5°	60.3	62.3	123.6	401.6	988.2	1966.1	1797.5	3307.9	3228.2	730.7	367.9
85°	7.2	8.2	45.0	241.2	549.8	1011.7	1460.3	1425.5	1319.3	145.1	189.0
87.5°	0.0	0.0	3.1	73.6	163.5	474.2	759.3	591.7	533.4	47.0	98.1
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°	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8
2.5°	6087.5	6077.3	6022.1	5942.4	5866.8	5772.8	5682.8	5628.7	5585.7	5557.1	5590.9
5°	6103.9	6058.9	5891.3	5676.7	5466.2	5229.1	5008.4	4821.4	4747.8	4666.0	4702.8
7.5°	6098.7	6014.0	5712.4	5330.3	4944.0	4544.5	4166.3	3875.1	3723.9	3575.7	3613.5
10°	6073.2	5930.1	5473.3	4907.2	4328.8	3754.5	3218.0	2810.3	2582.3	2375.9	2405.5
12.5°	6017.0	5817.7	5191.3	4422.8	3649.2	2892.0	2263.6	1741.3	1461.3	1337.7	1353.0
15°	5983.2	5708.4	4892.9	3932.3	2923.7	2014.2	1383.6	1029.1	901.4	860.5	865.6
17.5°	5966.9	5603.2	4584.2	3371.3	2181.8	1282.5	894.2	788.9	761.4	754.2	756.2
20°	5950.5	5496.9	4266.5	2816.3	1503.2	862.5	734.7	704.1	693.9	684.7	686.7
22.5°	5923.0	5394.7	3925.2	2254.3	1013.7	700.0	662.2	632.5	611.1	599.8	601.9
25°	5889.2	5287.4	3576.7	1679.0	739.8	624.4	588.6	546.7	521.2	500.7	501.7
27.5°	5835.1	5155.6	3217.0	1222.2	621.3	559.0	511.0	464.9	422.1	398.5	398.5
30°	5759.5	5006.3	2817.4	874.7	557.0	494.6	436.3	379.1	333.1	311.7	309.6
32.5°	5675.6	4851.0	2413.7	663.3	505.8	434.3	367.9	307.6	266.7	249.4	248.4
35°	5604.2	4683.4	2011.1	555.9	454.8	376.1	303.5	252.4	219.8	205.4	204.4
37.5°	5558.2	4515.8	1618.8	496.6	408.8	321.9	254.5	208.5	185.0	173.7	172.7
40°	5551.0	4391.1	1260.0	451.7	365.8	273.9	212.6	176.8	155.3	143.1	142.1
42.5°	5644.0	4319.6	966.8	413.9	321.9	232.0	180.9	151.3	128.7	116.5	115.5
45°	5888.2	4342.1	743.9	380.2	278.0	196.2	153.3	125.7	105.3	96.0	94.0
47.5°	6333.8	4497.4	591.7	346.4	236.1	166.6	130.8	104.2	86.8	77.7	76.7
50°	7126.8	4862.2	494.6	309.6	197.2	142.1	108.3	84.9	70.5	62.3	61.3
52.5°	8179.4	5512.2	441.5	273.9	163.5	120.5	88.9	67.4	55.1	49.1	48.1
55°	9340.3	6299.0	406.7	235.0	133.9	100.1	70.5	53.1	42.9	37.8	35.8
57.5°	10473.6	6980.6	374.0	197.2	111.4	81.8	56.2	41.9	33.7	28.6	27.6
60°	11514.9	7607.1	336.2	158.4	90.9	64.4	44.0	32.7	26.5	21.4	21.4
62.5°	12629.7	8091.5	284.1	123.6	74.6	49.1	35.8	29.6	21.4	18.4	17.3
65°	13811.1	8451.2	222.7	96.0	58.2	36.8	29.6	30.6	17.3	13.3	12.3
67.5°	14683.8	8379.6	164.5	75.6	45.0	28.6	28.6	32.7	15.4	10.2	9.2
69°	14491.7	7798.2	138.0	65.4	38.8	24.5	26.5	32.7	14.3	9.2	8.2
70°	13934.7	7154.4	121.6	58.2	34.7	22.5	25.5	31.7	13.3	9.2	8.2
72.5°	11604.8	5388.5	95.0	44.0	27.6	18.4	21.4	27.6	13.3	9.2	7.2
75°	8729.2	3449.0	72.6	31.7	20.4	14.3	16.4	20.4	13.3	8.2	7.2
77.5°	4749.9	1243.7	52.1	21.4	14.3	11.3	11.3	15.4	12.3	6.1	4.1
80°	1221.2	312.7	32.7	14.3	11.3	8.2	7.2	10.2	7.2	1.0	0.0
82.5°	301.4	70.5	17.3	10.2	8.2	3.1	3.1	5.1	3.1	0.0	0.0
85°	165.5	34.7	11.3	7.2	4.1	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	84.9	10.2	3.1	2.0	1.0	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)