

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: P383192

Luminaire Tested: **GLEON-SA5B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383192
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-SA5B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 22037.6 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

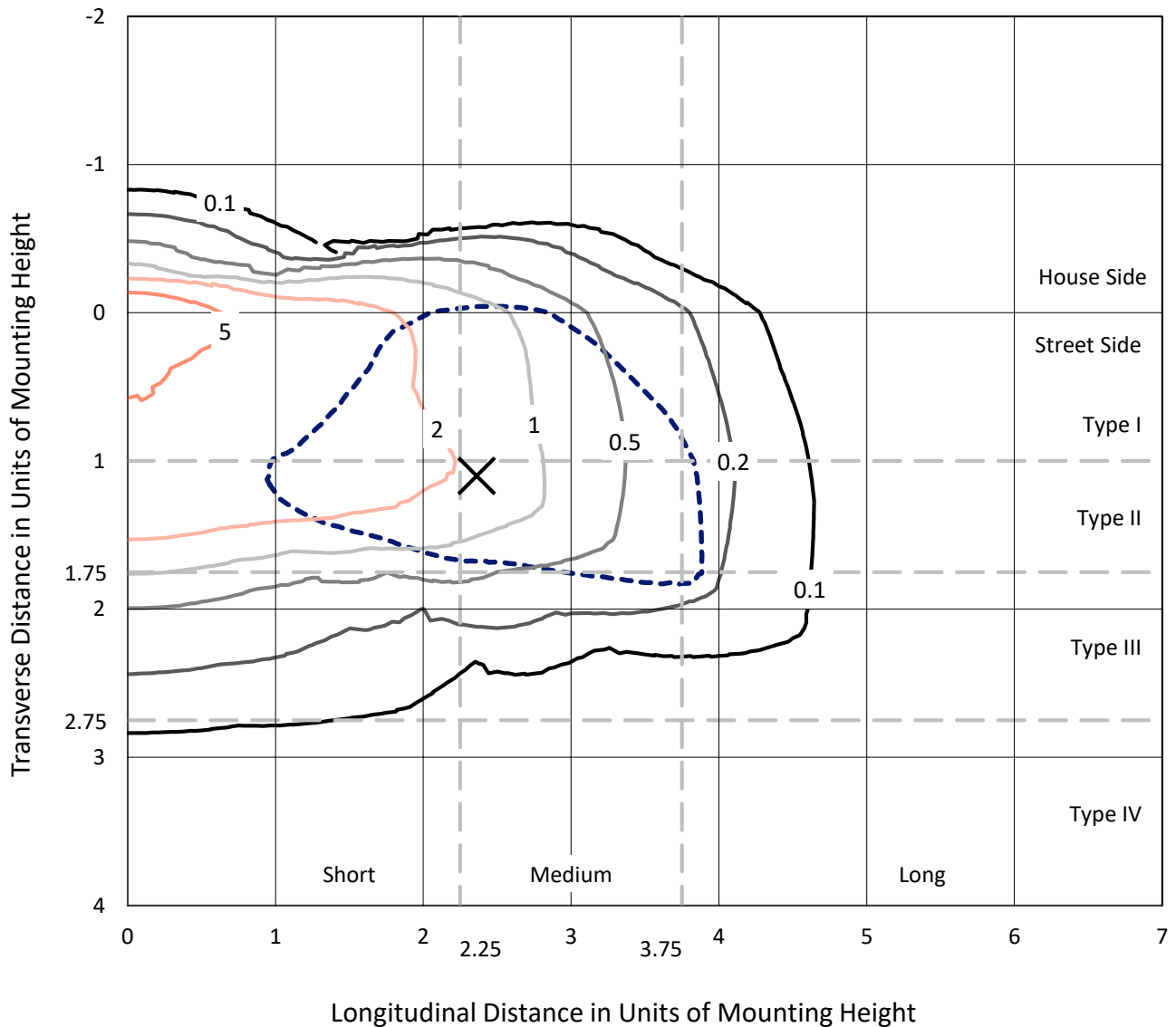
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

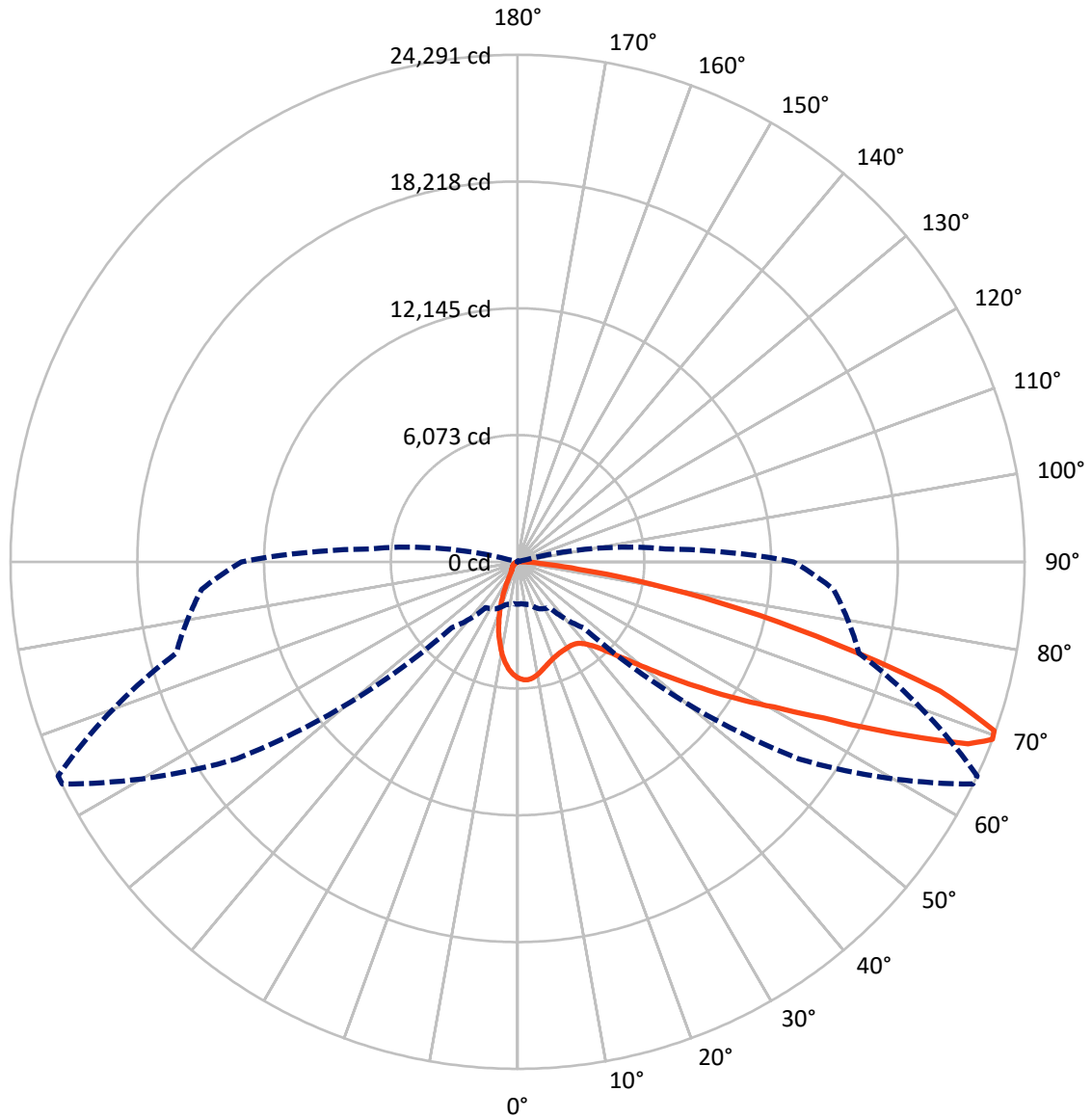
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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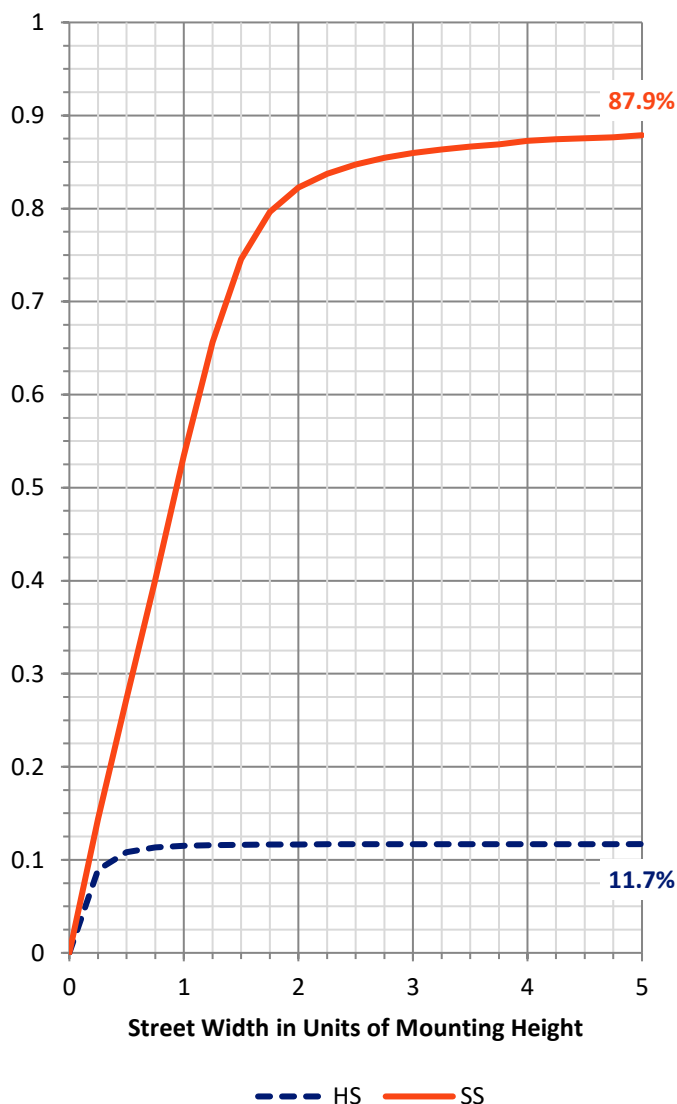
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.7	0.0	2597.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19439.9	0.0	19439.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	22037.6	0.0	22037.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.7	2.1
10°-20°	1019.4	4.6
20°-30°	1411.9	6.4
30°-40°	1968.6	8.9
40°-50°	3059.9	13.9
50°-60°	4912.3	22.3
60°-70°	5556.7	25.2
70°-80°	3263.5	14.8
80°-90°	379.6	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°	22037.6	100.0
0°-180°	22037.6	100.0

Coefficient of Utilization

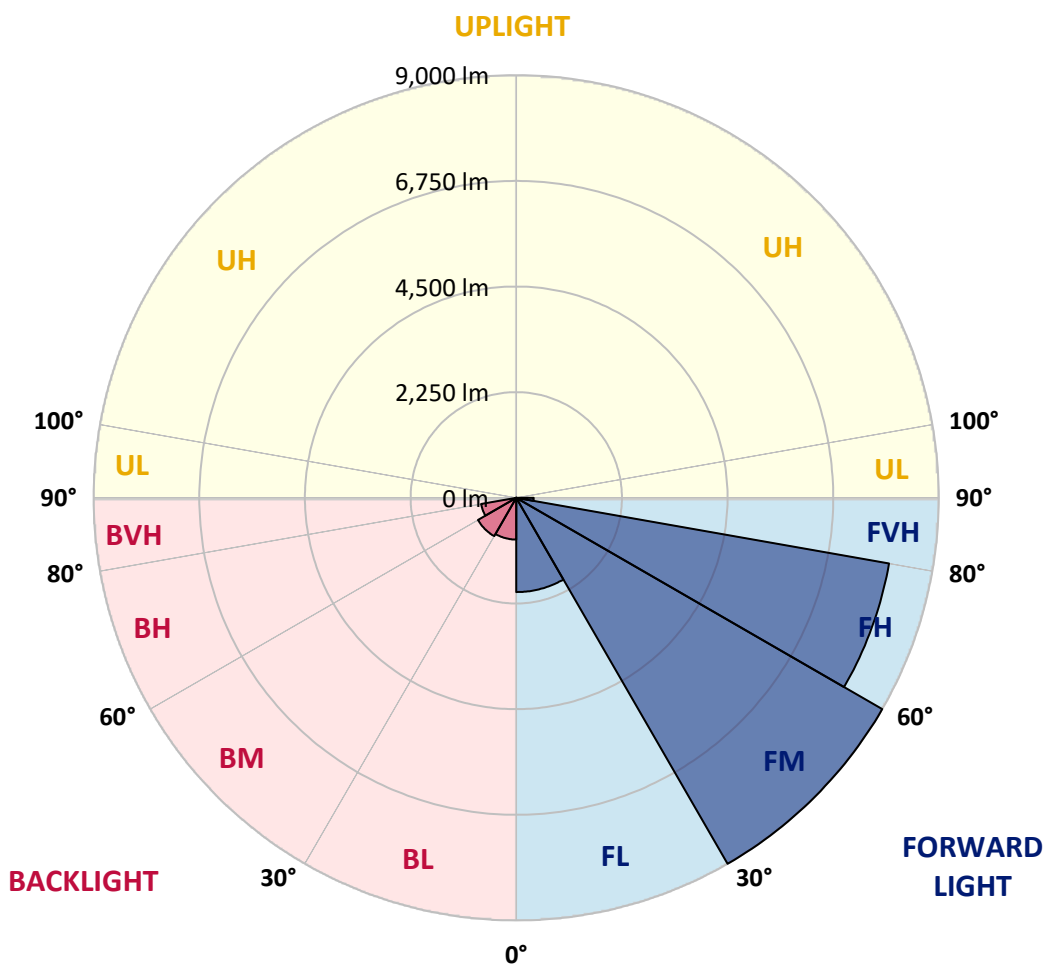


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.1	9.1			
FM (30°-60°)	8999.5	40.8			
FH (60°-80°)	8061.1	36.6			G4/12000
FVH (80°-90°)	371.1	1.7			G3/500
BL (0°-30°)	888.8	4.0	B2/1000		
BM (30°-60°)	941.3	4.3	B1/1000		
BH (60°-80°)	759.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.5	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°	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0
2.5°	5618.3	5604.4	5615.6	5639.8	5652.0	5652.0	5661.3	5650.1	5653.8	5626.7	5587.6
5°	5266.8	5245.4	5276.1	5344.2	5428.1	5500.0	5606.2	5662.2	5667.8	5668.7	5623.0
7.5°	4888.2	4868.6	4914.3	4994.5	5102.6	5236.0	5421.6	5583.9	5593.2	5680.9	5647.3
10°	4580.5	4566.5	4619.6	4705.4	4832.2	4981.5	5209.0	5434.6	5461.7	5655.7	5643.5
12.5°	4336.2	4325.0	4375.3	4474.2	4603.8	4768.9	5006.6	5268.6	5305.1	5598.8	5624.9
15°	4158.1	4156.2	4198.1	4293.3	4436.9	4590.8	4834.2	5114.8	5156.8	5537.2	5622.1
17.5°	4064.8	4067.6	4098.3	4179.5	4302.6	4455.5	4688.7	4985.2	5030.9	5482.3	5636.0
20°	4055.5	4058.3	4075.1	4120.8	4220.6	4355.7	4570.3	4876.1	4923.7	5441.2	5658.5
22.5°	4137.6	4135.7	4140.4	4135.7	4191.6	4294.2	4491.9	4792.2	4847.2	5414.2	5676.2
25°	4295.2	4292.4	4290.4	4256.0	4218.7	4273.7	4459.2	4744.7	4796.8	5394.6	5686.4
27.5°	4514.3	4512.4	4509.6	4452.7	4340.8	4306.4	4463.0	4726.9	4770.7	5378.8	5684.6
30°	4802.4	4815.4	4811.7	4732.4	4558.1	4406.1	4502.2	4717.5	4755.8	5347.9	5665.0
32.5°	5140.9	5167.0	5187.5	5102.6	4884.5	4603.8	4592.6	4727.8	4755.8	5324.6	5629.5
35°	5492.5	5526.0	5601.6	5571.8	5284.6	4901.2	4748.4	4789.4	4812.7	5337.7	5612.8
37.5°	5838.5	5878.5	6042.7	6129.4	5808.6	5294.8	4990.8	4941.4	4953.5	5416.9	5631.4
40°	6240.3	6301.0	6550.0	6689.8	6434.3	5821.6	5353.5	5202.5	5207.2	5591.3	5718.1
42.5°	6768.2	6830.7	7100.2	7319.3	7139.3	6487.5	5845.9	5601.6	5596.9	5917.7	5922.4
45°	7411.6	7476.9	7755.7	7999.1	7918.0	7276.4	6476.3	6184.4	6178.8	6432.4	6309.4
47.5°	8140.8	8205.2	8454.2	8704.9	8792.6	8197.7	7279.2	6979.8	6966.8	7147.7	6907.1
50°	8766.5	8808.5	9037.9	9375.5	9770.8	9329.7	8277.9	7989.7	7975.7	8097.9	7784.6
52.5°	8994.1	9018.3	9251.4	9724.2	10710.8	10862.8	9589.9	9218.8	9208.5	9261.7	8953.0
55°	8533.3	8577.2	8863.5	9564.8	11219.9	12595.4	11246.1	10740.7	10663.2	10548.6	10174.6
57.5°	7278.3	7348.1	7655.9	8588.4	10982.2	13970.0	13679.9	12462.1	12348.3	11647.0	11167.8
60°	5453.3	5539.1	5794.6	6800.8	9713.1	14459.5	16339.4	14380.2	14123.8	12521.8	12080.7
62.5°	3742.1	3785.1	3958.5	4614.0	7153.3	13657.5	18564.4	16949.3	16481.1	13472.9	13068.2
65°	2858.2	2873.1	2944.0	3169.6	4259.7	11094.1	19449.3	20338.9	19772.9	14610.6	14093.0
67.5°	2303.3	2291.1	2389.0	2711.7	2852.6	6768.2	18417.1	23545.9	23281.1	16131.5	15124.3
69°	2031.0	2014.2	2114.0	2488.9	2679.1	4474.2	16464.4	24274.2	24290.9	16934.3	15195.2
70°	1827.7	1838.9	1937.7	2356.4	2620.4	3511.8	14599.4	24088.6	24221.0	17234.7	14770.1
72.5°	1220.7	1250.5	1449.1	1956.4	2519.6	2657.6	8815.0	20670.9	21180.0	16558.5	12671.8
75°	688.2	710.6	946.5	1475.2	2374.1	2530.8	4656.1	15228.8	15721.2	13846.8	9771.7
77.5°	337.6	349.7	535.3	952.1	1985.3	2411.5	2640.8	10344.4	10906.7	9037.9	5527.0
80°	142.7	149.2	267.6	587.5	1419.3	2301.4	1961.1	6366.2	6436.2	3540.7	1472.4
82.5°	55.1	56.9	112.8	366.5	901.7	1794.2	1640.3	3018.5	2945.8	666.7	335.7
85°	6.5	7.5	41.0	220.0	501.7	923.2	1332.6	1300.8	1203.8	132.4	172.5
87.5°	0.0	0.0	2.8	67.2	149.2	432.7	692.9	539.9	486.7	42.9	89.5
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°	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0	5569.0
2.5°	5554.9	5545.6	5495.3	5422.5	5353.5	5267.7	5185.6	5136.3	5097.1	5071.0	5101.7
5°	5569.9	5528.8	5376.0	5180.1	4988.0	4771.7	4570.3	4399.6	4332.4	4257.8	4291.5
7.5°	5565.3	5487.8	5212.8	4864.0	4511.5	4146.9	3801.8	3536.1	3398.1	3262.8	3297.4
10°	5541.9	5411.4	4994.5	4477.9	3950.1	3426.0	2936.5	2564.4	2356.4	2168.1	2195.1
12.5°	5490.6	5308.8	4737.1	4035.9	3330.0	2639.0	2065.5	1589.0	1333.5	1220.7	1234.7
15°	5459.8	5209.0	4464.8	3588.3	2668.0	1837.9	1262.6	939.0	822.5	785.2	789.9
17.5°	5444.9	5113.0	4183.2	3076.3	1990.9	1170.3	815.9	719.9	694.7	688.2	690.1
20°	5430.0	5016.0	3893.2	2570.0	1371.7	787.1	670.4	642.5	633.2	624.8	626.7
22.5°	5404.8	4922.7	3581.8	2057.1	925.0	638.8	604.3	577.2	557.6	547.4	549.2
25°	5374.0	4824.8	3263.8	1532.1	675.1	569.7	537.1	498.9	475.6	456.9	457.9
27.5°	5324.6	4704.5	2935.5	1115.2	566.9	510.1	466.2	424.3	385.1	363.7	363.7
30°	5255.6	4568.4	2570.9	798.2	508.3	451.3	398.1	346.0	304.0	284.4	282.5
32.5°	5179.1	4426.6	2202.6	605.2	461.6	396.3	335.7	280.7	243.4	227.6	226.6
35°	5113.9	4273.7	1835.1	507.3	415.0	343.2	276.9	230.4	200.5	187.4	186.5
37.5°	5071.9	4120.8	1477.1	453.2	373.0	293.7	232.2	190.2	168.8	158.5	157.6
40°	5065.4	4007.0	1149.8	412.2	333.9	249.9	193.9	161.3	141.8	130.5	129.6
42.5°	5150.2	3941.8	882.2	377.6	293.7	211.6	165.1	138.1	117.5	106.3	105.4
45°	5373.1	3962.2	678.9	346.9	253.7	179.0	139.9	114.7	96.0	87.7	85.8
47.5°	5779.7	4103.9	539.9	316.1	215.4	152.0	119.3	95.1	79.3	70.9	70.0
50°	6503.3	4436.9	451.3	282.5	180.0	129.6	98.8	77.4	64.4	56.9	56.0
52.5°	7463.8	5030.0	402.8	249.9	149.2	110.0	81.1	61.6	50.4	44.7	43.8
55°	8523.1	5748.0	371.1	214.4	122.1	91.4	64.4	48.5	39.1	34.5	32.6
57.5°	9557.3	6370.0	341.3	180.0	101.6	74.6	51.3	38.2	30.7	26.1	25.2
60°	10507.5	6941.6	306.8	144.6	83.0	58.8	40.1	29.8	24.2	19.6	19.6
62.5°	11524.9	7383.6	259.2	112.8	68.1	44.7	32.6	27.0	19.6	16.8	15.8
65°	12602.9	7711.8	203.3	87.7	53.2	33.5	27.0	27.9	15.8	12.1	11.2
67.5°	13399.2	7646.6	150.2	69.0	41.0	26.1	26.1	29.8	14.0	9.3	8.4
69°	13223.9	7116.0	125.9	59.7	35.4	22.4	24.2	29.8	13.0	8.4	7.5
70°	12715.7	6528.5	110.9	53.2	31.7	20.5	23.3	28.9	12.1	8.4	7.5
72.5°	10589.6	4917.1	86.7	40.1	25.2	16.8	19.6	25.2	12.1	8.4	6.5
75°	7965.5	3147.2	66.2	28.9	18.6	13.0	14.9	18.6	12.1	7.5	6.5
77.5°	4334.3	1134.9	47.6	19.6	13.0	10.2	10.2	14.0	11.2	5.6	3.7
80°	1114.3	285.3	29.8	13.0	10.2	7.5	6.5	9.3	6.5	0.9	0.0
82.5°	275.1	64.4	15.8	9.3	7.5	2.8	2.8	4.7	2.8	0.0	0.0
85°	151.1	31.7	10.2	6.5	3.7	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	77.4	9.3	2.8	1.9	0.9	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)