

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: P323632

Luminaire Tested: **GLEON-SA8A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 23455 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

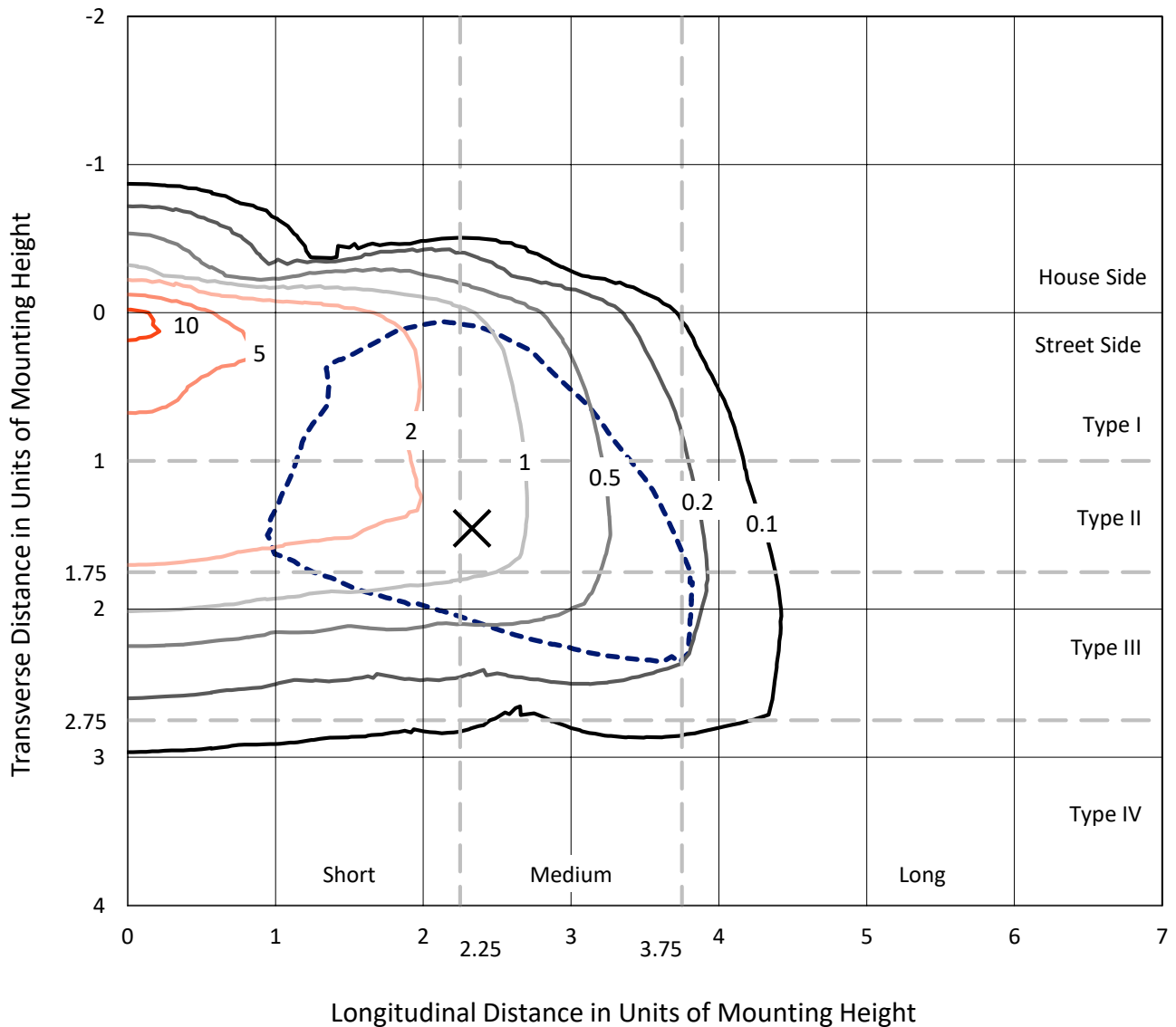
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

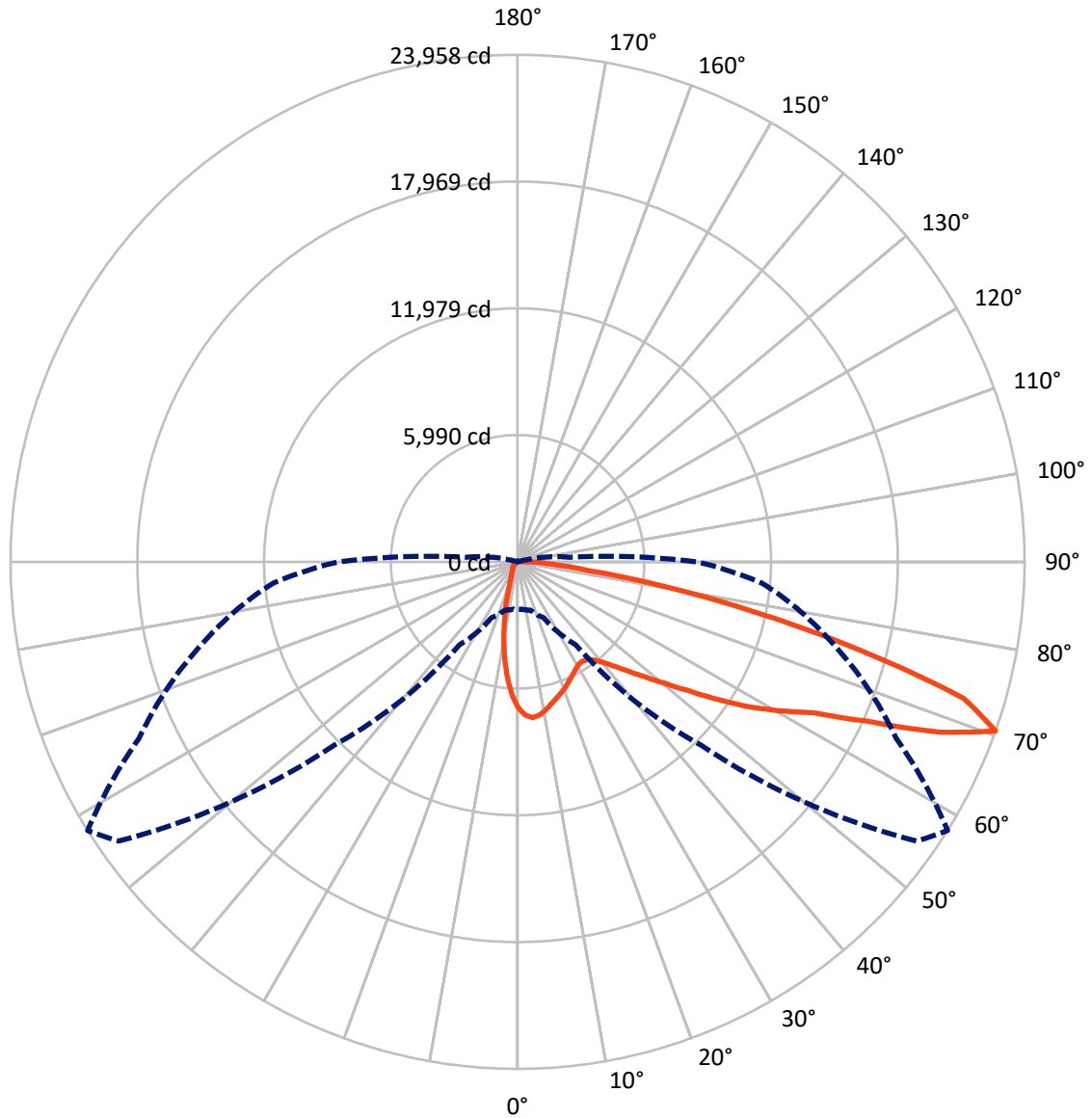
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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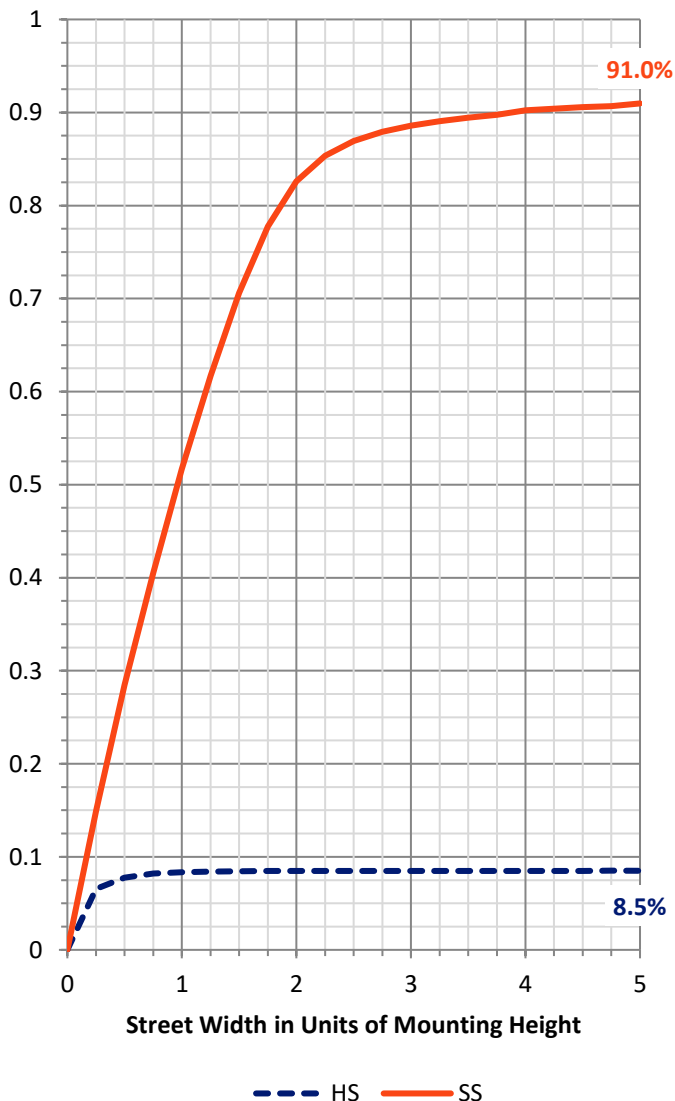
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.2	0.0	2007.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	21447.8	0.0	21447.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	23455.0	0.0	23455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.6	2.4
10°-20°	1189.1	5.1
20°-30°	1563.3	6.7
30°-40°	2070.4	8.8
40°-50°	3094.6	13.2
50°-60°	4957.4	21.1
60°-70°	6248.7	26.6
70°-80°	3370.5	14.4
80°-90°	394.5	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°	23455.0	100.0
0°-180°	23455.0	100.0

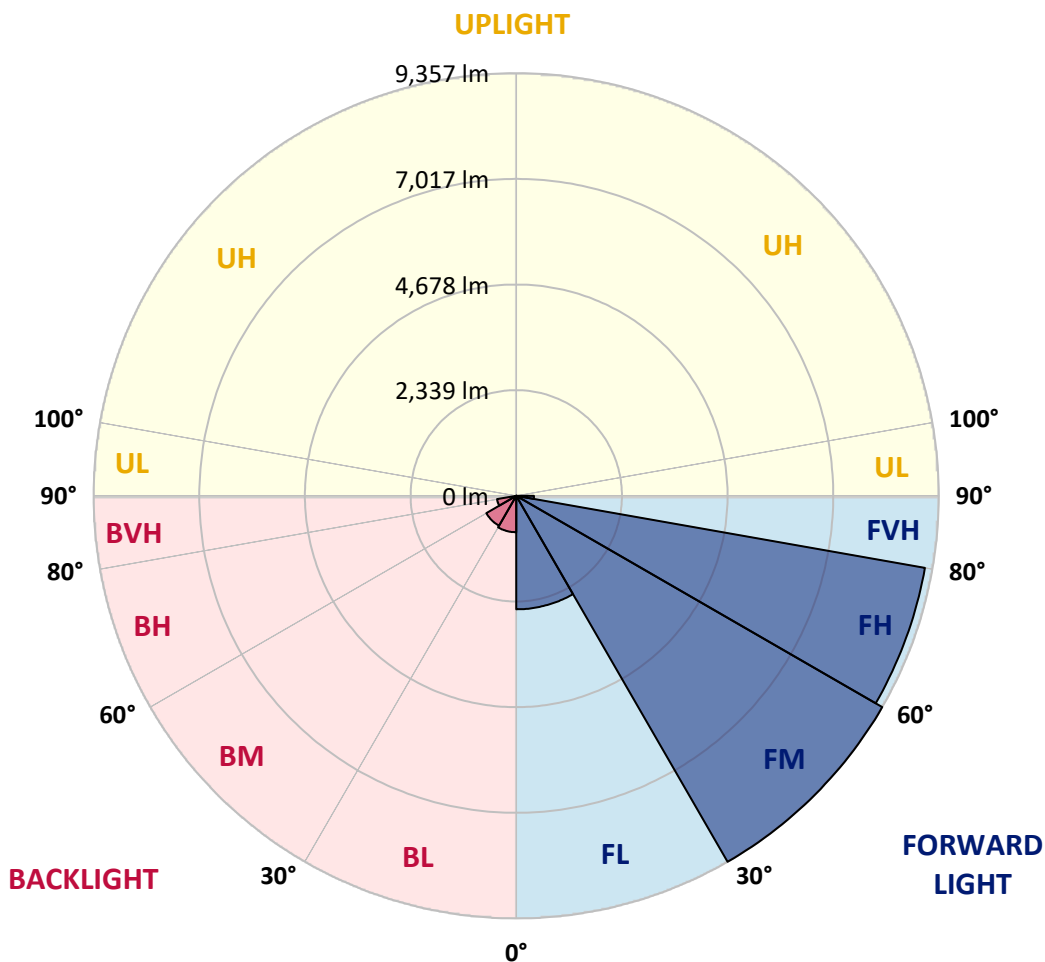


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2512.5	10.7			
FM (30°-60°)	9356.6	39.9			
FH (60°-80°)	9187.6	39.2			G4/12000
FVH (80°-90°)	391.1	1.7			G3/500
BL (0°-30°)	806.4	3.4	B2/1000		
BM (30°-60°)	765.7	3.3	B1/1000		
BH (60°-80°)	431.7	1.8	B1/500		G1/500
BVH (80°-90°)	3.4	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°	58°	65°	75°	85°
0°	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5
2.5°	7502.9	7484.4	7477.6	7465.9	7421.0	7377.1	7290.3	7265.9	7211.3	7081.6	6944.1
5°	7508.8	7507.8	7528.3	7523.4	7507.8	7487.3	7424.9	7392.7	7300.1	7114.8	6863.2
7.5°	7147.0	7165.5	7211.3	7248.4	7291.3	7346.9	7354.7	7323.5	7247.4	7047.5	6713.9
10°	6661.3	6690.5	6754.9	6828.0	6940.2	7051.4	7150.9	7147.0	7120.6	6923.6	6534.5
12.5°	6174.6	6208.7	6282.9	6391.1	6550.1	6731.5	6909.0	6933.4	6977.3	6812.4	6368.7
15°	5748.4	5777.6	5850.8	5983.4	6180.4	6424.3	6684.7	6729.5	6842.7	6725.6	6230.2
17.5°	5386.6	5405.1	5458.7	5606.0	5834.2	6129.7	6468.2	6555.9	6724.7	6657.4	6110.2
20°	5134.0	5136.9	5172.0	5275.4	5503.6	5834.2	6243.8	6369.7	6599.8	6598.8	5986.4
22.5°	5009.1	4999.4	5006.2	5065.7	5233.4	5552.4	6019.5	6168.7	6487.7	6549.1	5860.5
25°	4985.7	4977.9	4958.4	4966.2	5067.6	5305.6	5793.3	5965.9	6389.2	6518.9	5751.3
27.5°	5058.9	5066.7	5033.5	4998.4	5006.2	5145.7	5592.3	5792.3	6309.2	6518.9	5674.3
30°	5206.1	5210.0	5185.6	5139.8	5078.4	5100.8	5452.9	5652.8	6269.2	6563.7	5625.5
32.5°	5369.0	5390.5	5387.5	5350.5	5262.7	5172.0	5419.7	5602.1	6266.3	6663.2	5620.6
35°	5570.9	5595.3	5636.2	5628.4	5536.7	5387.5	5532.8	5676.2	6323.8	6827.1	5673.3
37.5°	5785.5	5822.5	5910.3	5952.2	5892.7	5724.0	5786.4	5888.8	6477.9	7092.3	5806.9
40°	5993.2	6035.1	6195.1	6359.9	6315.0	6141.4	6170.7	6252.6	6752.0	7473.7	6060.5
42.5°	6197.0	6259.4	6494.5	6765.6	6819.3	6680.8	6696.4	6761.7	7158.7	7998.4	6475.0
45°	6440.8	6511.1	6859.3	7193.8	7337.1	7276.7	7343.0	7385.9	7690.2	8691.8	7033.8
47.5°	6798.8	6879.7	7306.9	7688.3	7939.9	7978.9	8112.5	8140.8	8362.2	9499.4	7762.4
50°	7497.1	7519.5	7905.7	8252.0	8614.8	8848.9	9001.0	9022.5	9175.6	10382.0	8672.3
52.5°	8375.8	8390.5	8608.9	8841.0	9253.6	9731.5	10087.5	10117.7	10149.9	11242.2	9570.6
55°	9248.7	9246.8	9391.1	9527.7	9999.7	10694.1	11466.5	11485.1	11253.9	12058.5	10257.2
57.5°	9793.9	9846.6	10066.0	10241.6	10900.9	11791.3	12863.2	12931.4	12413.6	12663.2	10936.0
60°	9620.3	9645.7	10132.3	10781.9	12023.4	13350.8	14276.4	14293.9	13285.5	13266.9	11794.2
62.5°	8196.4	8210.0	8974.7	10313.7	12592.0	15373.6	15981.2	15695.4	14288.1	14104.7	12821.2
65°	5617.7	5706.5	6345.3	8000.3	11547.5	16642.4	18620.3	18147.3	15816.4	15312.1	13749.7
67.5°	3308.2	3289.7	3605.7	4824.8	8481.2	15799.8	21958.8	21488.7	17900.6	16120.7	13477.6
70°	2259.8	2247.1	2368.0	2921.0	4787.7	12256.5	23009.2	23958.1	19740.9	15576.4	11599.2
72.5°	1613.1	1620.0	1798.4	2269.5	3005.9	7141.1	19786.8	22032.9	19164.5	13579.0	8816.7
75°	1095.3	1113.8	1369.3	1861.8	2635.2	3633.0	14041.3	16748.7	15605.7	9869.0	5067.6
77.5°	589.1	609.6	910.9	1500.0	2382.6	2524.1	9032.2	11527.0	9802.7	4436.6	1468.8
80°	245.8	257.5	426.2	1090.4	2058.8	2216.8	5314.4	6989.9	4177.2	874.8	327.7
82.5°	106.3	112.2	177.5	650.5	1539.0	1871.6	2813.7	3362.8	1265.9	192.1	164.8
85°	20.5	21.5	73.1	344.3	982.1	1056.2	1823.8	1787.7	568.6	82.9	120.0
87.5°	0.0	0.0	17.6	108.3	288.7	575.4	1112.8	1099.2	193.1	40.0	44.9
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°	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5	6928.5
2.5°	6873.9	6806.6	6665.2	6490.6	6357.0	6209.7	6092.7	5944.4	5880.1	5883.0	5847.9
5°	6719.8	6581.3	6268.2	5873.2	5568.9	5254.9	4984.7	4715.6	4556.6	4504.9	4456.1
7.5°	6499.4	6279.9	5780.6	5172.0	4657.0	4153.8	3715.9	3330.6	3086.8	2967.8	2923.9
10°	6250.7	5942.5	5219.8	4418.1	3682.7	3002.0	2434.3	1940.8	1743.8	1610.2	1576.1
12.5°	6032.2	5614.8	4671.7	3644.7	2771.8	1950.6	1409.3	1102.1	968.5	915.8	907.0
15°	5826.4	5308.5	4144.0	2944.4	1919.4	1200.6	896.3	791.9	760.7	752.0	752.0
17.5°	5632.3	5016.9	3628.1	2254.9	1269.8	841.7	742.2	718.8	709.0	708.1	709.0
20°	5429.5	4725.3	3120.9	1652.1	886.5	712.9	685.6	673.0	670.0	670.0	670.0
22.5°	5235.4	4433.7	2627.4	1180.1	711.0	650.5	636.9	628.1	625.2	624.2	622.2
25°	5049.1	4156.7	2145.6	833.9	624.2	595.9	584.2	572.5	563.7	558.8	555.9
27.5°	4896.0	3910.0	1697.0	669.1	563.7	539.3	524.7	507.2	485.7	475.9	472.0
30°	4774.1	3684.7	1307.9	564.7	507.2	482.8	460.3	430.1	398.9	382.3	381.3
32.5°	4678.5	3463.3	992.9	499.4	456.4	426.2	394.0	356.0	319.9	301.4	300.4
35°	4631.7	3268.2	758.8	451.6	411.6	373.5	333.6	291.6	256.5	238.9	237.0
37.5°	4662.9	3103.4	592.0	411.6	373.5	329.6	282.8	238.9	207.7	192.1	191.2
40°	4777.0	2998.1	480.8	377.4	341.4	287.7	237.0	196.0	169.7	157.0	156.0
42.5°	5019.8	2959.0	410.6	349.2	310.1	248.7	197.0	161.9	137.5	128.7	126.8
45°	5425.6	3016.6	362.8	321.8	278.0	211.6	162.9	132.6	111.2	104.4	103.4
47.5°	5965.9	3167.8	328.7	295.5	248.7	178.5	135.6	107.3	90.7	83.9	82.9
50°	6662.2	3407.7	300.4	269.2	221.4	151.2	112.2	84.9	70.2	65.3	65.3
52.5°	7420.0	3693.4	275.0	244.8	194.1	125.8	90.7	65.3	55.6	49.7	49.7
55°	8046.2	3943.1	247.7	226.3	160.9	104.4	69.2	49.7	41.0	38.0	38.0
57.5°	8671.3	4209.4	216.5	194.1	128.7	84.9	52.7	37.1	30.2	28.3	28.3
60°	9481.8	4535.1	186.3	158.0	101.4	64.4	39.0	26.3	22.4	21.5	21.5
62.5°	10373.2	4726.3	159.0	126.8	79.0	47.8	28.3	17.6	16.6	16.6	15.6
65°	10918.4	4456.1	133.6	101.4	61.4	36.1	18.5	12.7	14.6	13.7	11.7
67.5°	10223.0	3488.6	109.2	79.0	47.8	27.3	11.7	8.8	15.6	12.7	9.8
70°	8464.6	2442.1	84.9	55.6	38.0	23.4	7.8	5.9	16.6	12.7	7.8
72.5°	6334.5	1634.6	67.3	37.1	28.3	20.5	6.8	2.9	14.6	10.7	6.8
75°	3461.3	658.3	53.6	23.4	17.6	14.6	4.9	2.0	9.8	7.8	4.9
77.5°	910.9	173.6	39.0	15.6	9.8	5.9	2.9	1.0	4.9	3.9	2.0
80°	232.1	67.3	25.4	10.7	6.8	2.9	0.0	0.0	1.0	0.0	0.0
82.5°	123.9	28.3	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	93.6	18.5	8.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.1	5.9	2.9	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)