

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: P323313

Luminaire Tested: **GLEON-SA9A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323313
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-SA9A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 25367 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

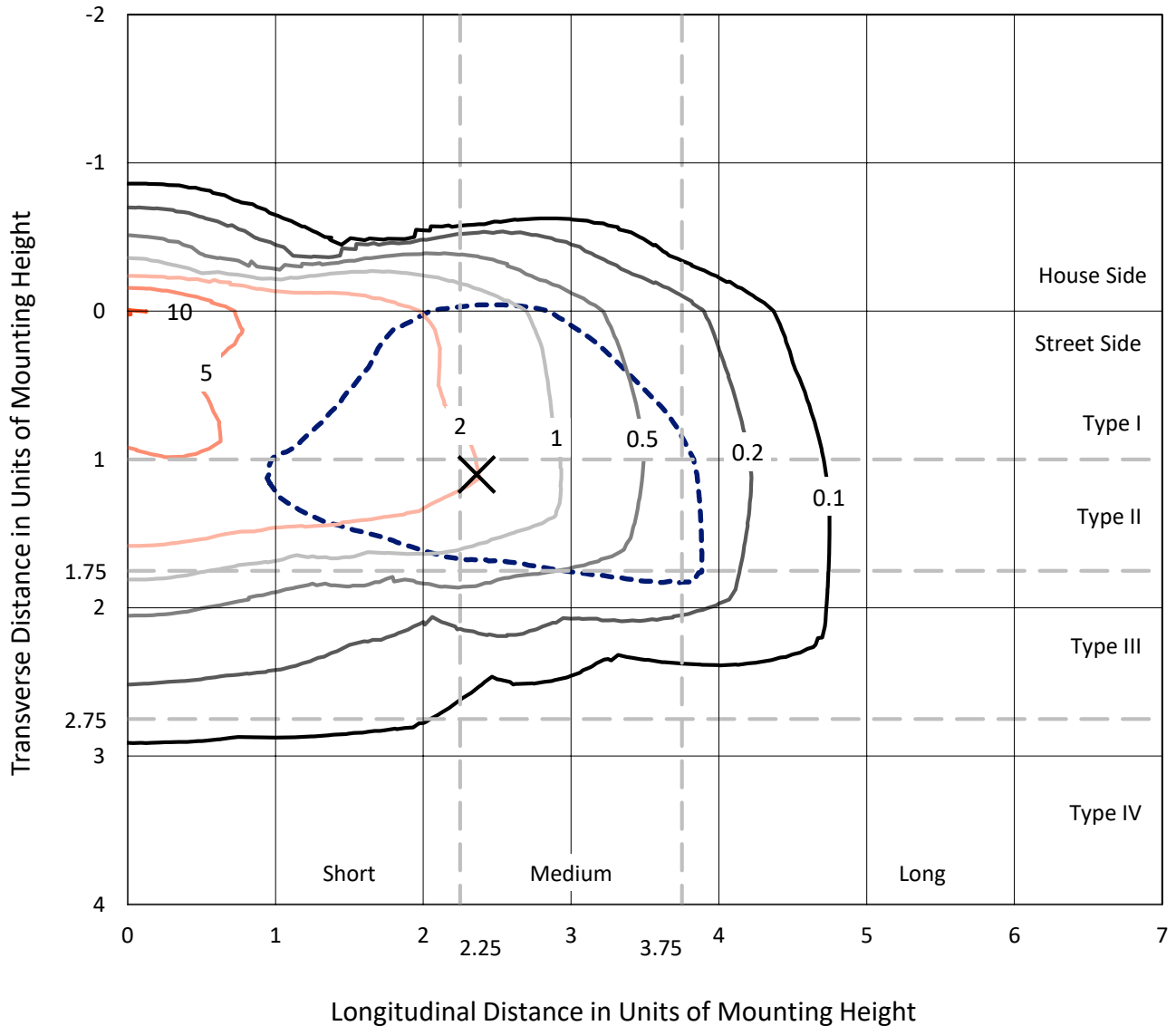
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

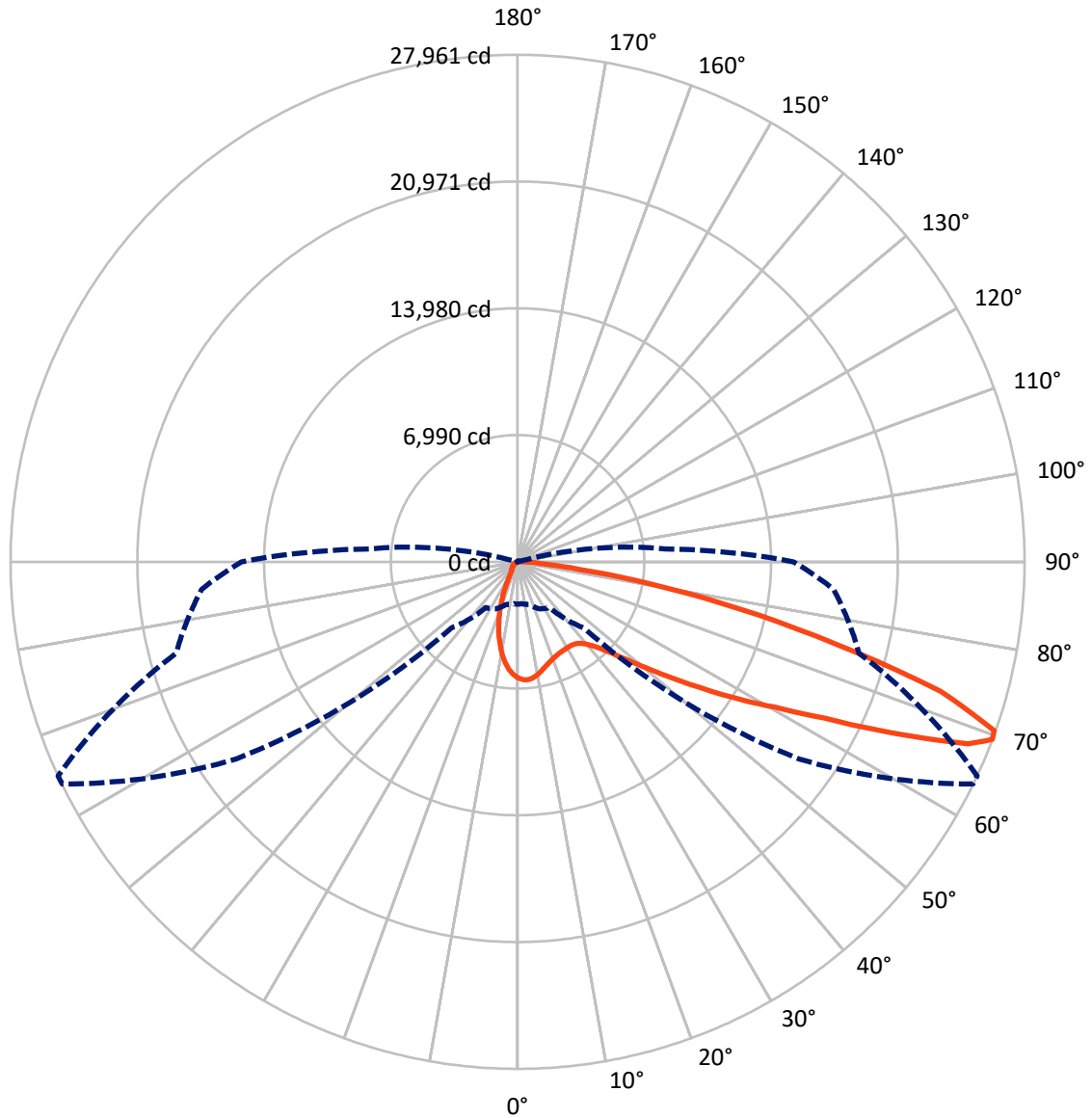
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	2990.2	0.0	2990.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22376.8	0.0	22376.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	25367.0	0.0	25367.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	2.1
10°-20°	1173.4	4.6
20°-30°	1625.2	6.4
30°-40°	2266.0	8.9
40°-50°	3522.2	13.9
50°-60°	5654.5	22.3
60°-70°	6396.1	25.2
70°-80°	3756.5	14.8
80°-90°	437.0	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°	25367.0	100.0
0°-180°	25367.0	100.0

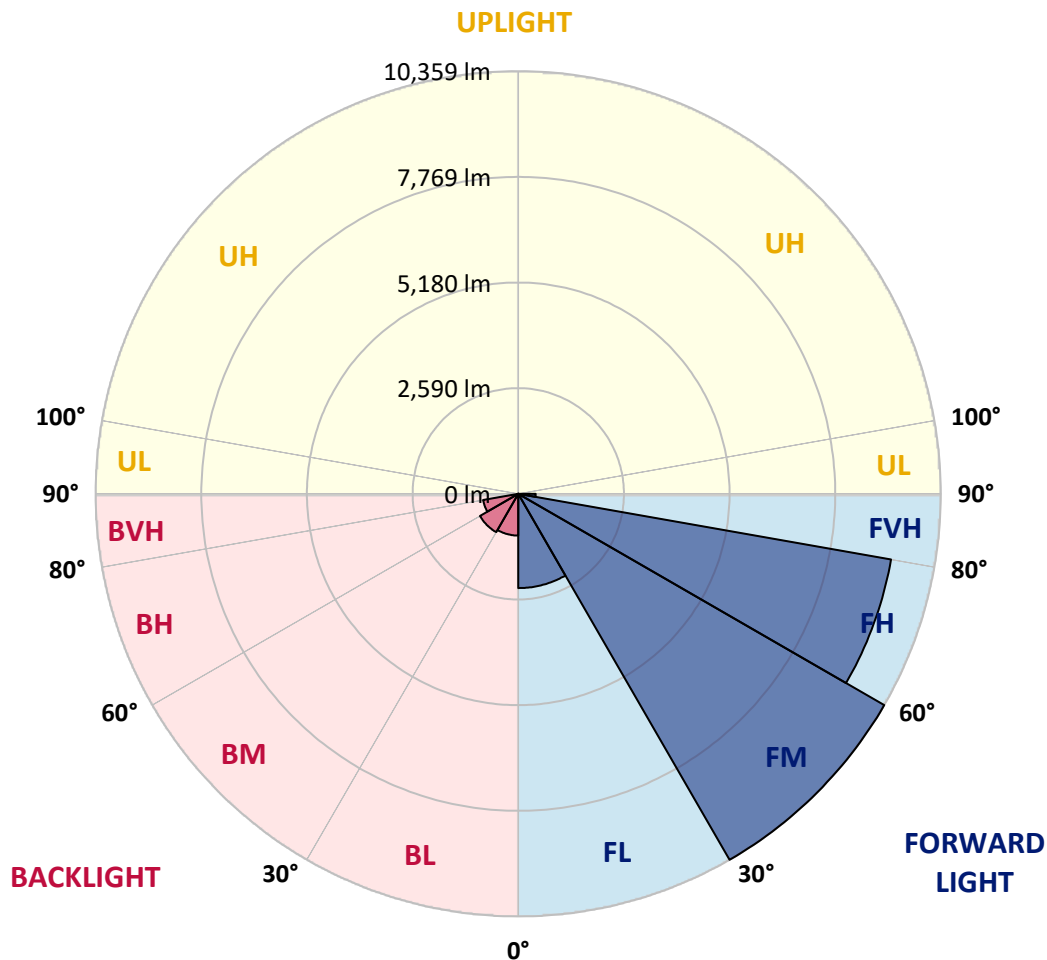


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2311.5	9.1			
FM (30°-60°)	10359.2	40.8			
FH (60°-80°)	9279.0	36.6			G4/12000
FVH (80°-90°)	427.2	1.7			G3/500
BL (0°-30°)	1023.1	4.0	B3/2500		
BM (30°-60°)	1083.6	4.3	B2/2500		
BH (60°-80°)	873.7	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3
2.5°	6467.2	6451.1	6464.0	6491.9	6505.8	6505.8	6516.6	6503.7	6508.0	6476.8	6431.8
5°	6062.5	6037.8	6073.2	6151.6	6248.2	6330.9	6453.2	6517.6	6524.1	6525.1	6472.5
7.5°	5626.7	5604.2	5656.8	5749.1	5873.6	6027.1	6240.7	6427.5	6438.2	6539.1	6500.5
10°	5272.5	5256.4	5317.6	5416.3	5562.3	5734.0	5996.0	6255.7	6286.8	6510.1	6496.2
12.5°	4991.3	4978.4	5036.3	5150.1	5299.3	5489.3	5763.0	6064.7	6106.5	6444.6	6474.7
15°	4786.2	4784.1	4832.4	4941.9	5107.2	5284.3	5564.5	5887.5	5935.8	6373.8	6471.5
17.5°	4678.9	4682.1	4717.5	4810.9	4952.6	5128.7	5397.0	5738.3	5790.9	6310.5	6487.6
20°	4668.2	4671.4	4690.7	4743.3	4858.2	5013.8	5260.7	5612.8	5667.5	6263.2	6513.3
22.5°	4762.6	4760.5	4765.9	4760.5	4824.9	4943.0	5170.5	5516.2	5579.5	6232.1	6533.7
25°	4944.0	4940.8	4938.7	4899.0	4856.0	4919.3	5133.0	5461.4	5521.5	6209.6	6545.5
27.5°	5196.3	5194.1	5190.9	5125.4	4996.6	4956.9	5137.2	5441.0	5491.5	6191.3	6543.4
30°	5528.0	5543.0	5538.7	5447.5	5246.7	5071.8	5182.3	5430.3	5474.3	6155.9	6520.8
32.5°	5917.6	5947.7	5971.3	5873.6	5622.4	5299.3	5286.4	5442.1	5474.3	6129.1	6480.1
35°	6322.3	6360.9	6447.9	6413.5	6082.9	5641.7	5465.7	5512.9	5539.8	6144.1	6460.7
37.5°	6720.5	6766.7	6955.6	7055.4	6686.1	6094.7	5744.8	5687.9	5701.8	6235.3	6482.2
40°	7183.1	7252.9	7539.5	7700.5	7406.4	6701.2	6162.3	5988.4	5993.8	6436.0	6582.0
42.5°	7790.7	7862.6	8172.8	8425.0	8217.9	7467.6	6729.1	6447.9	6442.5	6811.7	6817.1
45°	8531.3	8606.4	8927.4	9207.5	9114.2	8375.7	7454.7	7118.7	7112.3	7404.2	7262.6
47.5°	9370.7	9444.8	9731.4	10020.1	10121.0	9436.2	8378.9	8034.3	8019.3	8227.5	7950.6
50°	10090.9	10139.2	10403.3	10791.9	11247.0	10739.3	9528.5	9196.8	9180.7	9321.3	8960.7
52.5°	10352.8	10380.8	10649.1	11193.3	12329.0	12503.9	11038.7	10611.5	10599.7	10660.9	10305.6
55°	9822.6	9873.0	10202.6	11009.8	12915.0	14498.3	12945.1	12363.3	12274.2	12142.2	11711.8
57.5°	8377.8	8458.3	8812.5	9885.9	12641.3	16080.5	15746.6	14344.8	14213.8	13406.6	12854.9
60°	6277.2	6375.9	6670.0	7828.2	11180.4	16644.0	18807.9	16552.7	16257.6	14413.5	13905.8
62.5°	4307.5	4356.9	4556.5	5311.1	8234.0	15720.9	21369.0	19509.9	18971.1	15508.3	15042.5
65°	3289.9	3307.1	3388.7	3648.5	4903.2	12770.1	22387.7	23411.7	22760.2	16817.9	16222.1
67.5°	2651.3	2637.3	2750.0	3121.4	3283.5	7790.7	21199.5	27103.1	26798.3	18568.6	17409.3
69°	2337.8	2318.5	2433.4	2864.9	3083.8	5150.1	18951.8	27941.4	27960.7	19492.8	17490.9
70°	2103.8	2116.7	2230.5	2712.5	3016.2	4042.4	16805.0	27727.8	27880.2	19838.4	17001.4
72.5°	1405.1	1439.4	1668.0	2252.0	2900.3	3059.2	10146.8	23793.8	24379.9	19060.2	14586.3
75°	792.2	817.9	1089.5	1698.1	2732.9	2913.2	5359.4	17529.5	18096.3	15938.8	11248.1
77.5°	388.6	402.5	616.1	1095.9	2285.2	2775.8	3039.8	11907.1	12554.4	10403.3	6362.0
80°	164.2	171.7	308.1	676.2	1633.7	2649.1	2257.3	7328.0	7408.5	4075.7	1694.9
82.5°	63.3	65.5	129.9	421.8	1038.0	2065.2	1888.1	3474.6	3390.8	767.5	386.4
85°	7.5	8.6	47.2	253.3	577.5	1062.7	1533.9	1497.4	1385.7	152.4	198.6
87.5°	0.0	0.0	3.2	77.3	171.7	498.1	797.5	621.5	560.3	49.4	103.0
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°	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3	6410.3
2.5°	6394.2	6383.5	6325.5	6241.8	6162.3	6063.6	5969.1	5912.2	5867.1	5837.1	5872.5
5°	6411.4	6364.1	6188.1	5962.7	5741.6	5492.5	5260.7	5064.3	4987.0	4901.1	4939.7
7.5°	6406.0	6316.9	6000.3	5598.8	5193.1	4773.4	4376.2	4070.3	3911.4	3755.8	3795.5
10°	6379.2	6228.9	5749.1	5154.4	4546.9	3943.6	3380.1	2951.8	2712.5	2495.6	2526.8
12.5°	6320.1	6110.8	5452.8	4645.6	3833.1	3037.7	2377.6	1829.1	1534.9	1405.1	1421.2
15°	6284.7	5996.0	5139.4	4130.4	3071.0	2115.7	1453.4	1080.9	946.7	903.8	909.2
17.5°	6267.5	5885.4	4815.2	3541.1	2291.7	1347.1	939.2	828.7	799.7	792.2	794.3
20°	6250.4	5773.8	4481.4	2958.3	1579.0	905.9	771.8	739.6	728.8	719.2	721.3
22.5°	6221.4	5666.4	4122.9	2367.9	1064.8	735.3	695.6	664.4	641.9	630.1	632.2
25°	6185.9	5553.7	3756.9	1763.6	777.1	655.8	618.3	574.3	547.4	526.0	527.0
27.5°	6129.1	5415.3	3379.0	1283.8	652.6	587.1	536.7	488.4	443.3	418.6	418.6
30°	6049.6	5258.5	2959.3	918.8	585.0	519.5	458.3	398.2	349.9	327.4	325.2
32.5°	5961.6	5095.4	2535.3	696.6	531.3	456.2	386.4	323.1	280.2	261.9	260.8
35°	5886.5	4919.3	2112.4	583.9	477.7	395.0	318.8	265.1	230.8	215.8	214.7
37.5°	5838.2	4743.3	1700.2	521.7	429.4	338.1	267.3	219.0	194.3	182.5	181.4
40°	5830.7	4612.4	1323.5	474.4	384.3	287.7	223.3	185.7	163.2	150.3	149.2
42.5°	5928.3	4537.2	1015.4	434.7	338.1	243.7	190.0	158.9	135.2	122.4	121.3
45°	6184.9	4560.8	781.4	399.3	292.0	206.1	161.0	132.0	110.6	100.9	98.8
47.5°	6652.9	4724.0	621.5	363.9	248.0	175.0	137.4	109.5	91.2	81.6	80.5
50°	7485.8	5107.2	519.5	325.2	207.2	149.2	113.8	89.1	74.1	65.5	64.4
52.5°	8591.4	5789.9	463.7	287.7	171.7	126.7	93.4	70.8	58.0	51.5	50.4
55°	9810.8	6616.4	427.2	246.9	140.6	105.2	74.1	55.8	45.1	39.7	37.6
57.5°	11001.2	7332.3	392.9	207.2	117.0	85.9	59.0	44.0	35.4	30.1	29.0
60°	12095.0	7990.3	353.1	166.4	95.5	67.6	46.2	34.3	27.9	22.5	22.5
62.5°	13266.0	8499.1	298.4	129.9	78.4	51.5	37.6	31.1	22.5	19.3	18.2
65°	14506.9	8876.9	234.0	100.9	61.2	38.6	31.1	32.2	18.2	14.0	12.9
67.5°	15423.5	8801.8	172.8	79.4	47.2	30.1	30.1	34.3	16.1	10.7	9.7
69°	15221.7	8191.0	144.9	68.7	40.8	25.8	27.9	34.3	15.0	9.7	8.6
70°	14636.7	7514.8	127.7	61.2	36.5	23.6	26.8	33.3	14.0	9.7	8.6
72.5°	12189.4	5660.0	99.8	46.2	29.0	19.3	22.5	29.0	14.0	9.7	7.5
75°	9168.9	3622.7	76.2	33.3	21.5	15.0	17.2	21.5	14.0	8.6	7.5
77.5°	4989.1	1306.3	54.7	22.5	15.0	11.8	11.8	16.1	12.9	6.4	4.3
80°	1282.7	328.5	34.3	15.0	11.8	8.6	7.5	10.7	7.5	1.1	0.0
82.5°	316.7	74.1	18.2	10.7	8.6	3.2	3.2	5.4	3.2	0.0	0.0
85°	173.9	36.5	11.8	7.5	4.3	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	89.1	10.7	3.2	2.1	1.1	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)