

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: P323329

Luminaire Tested: **GLEON-SA5C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323329
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-SA5C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 21526 lumens
Efficiency: N/A
Efficacy: 77.2 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): 279
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

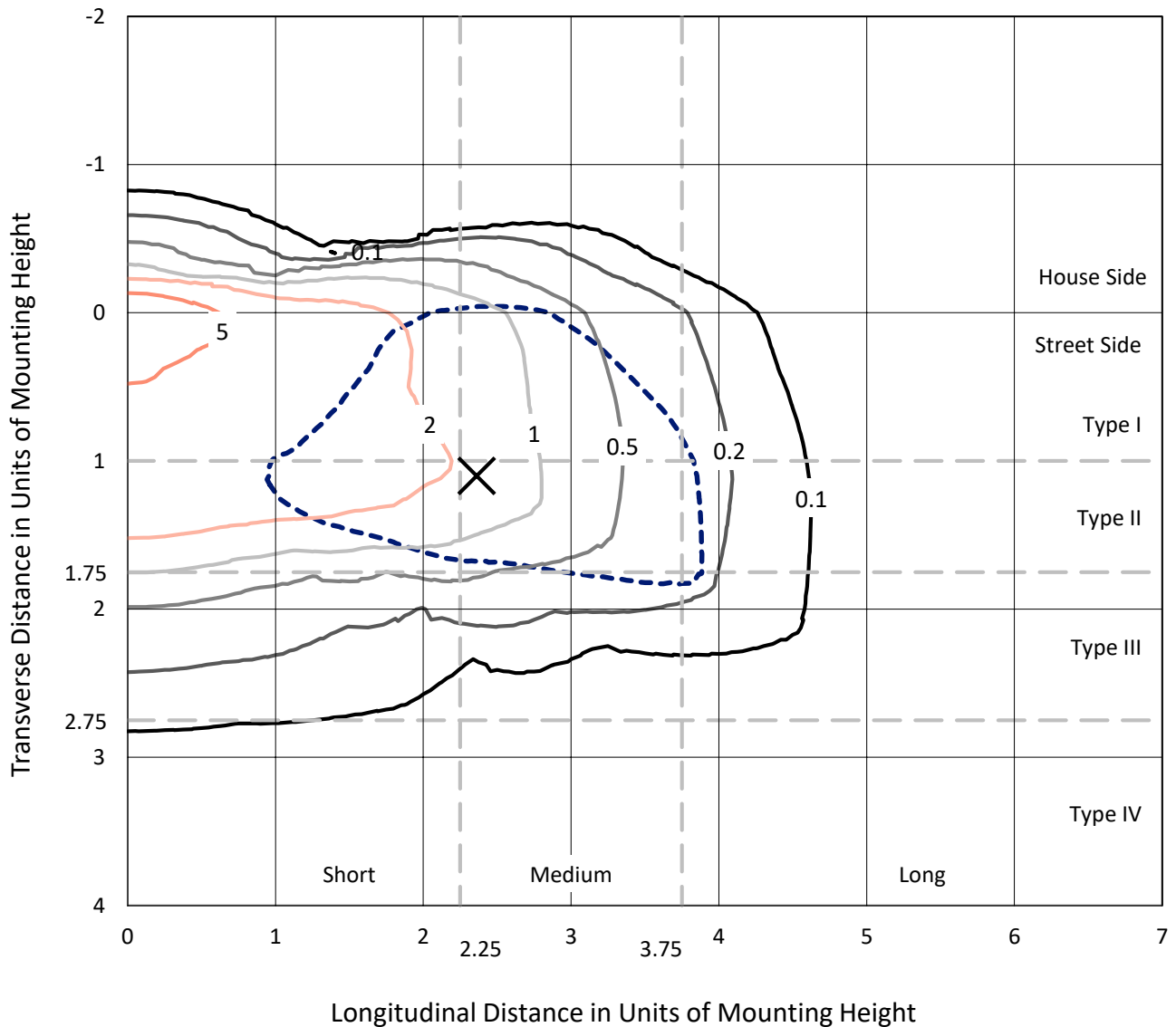




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Iso-Footcandle Lines of Horizontal Illumination

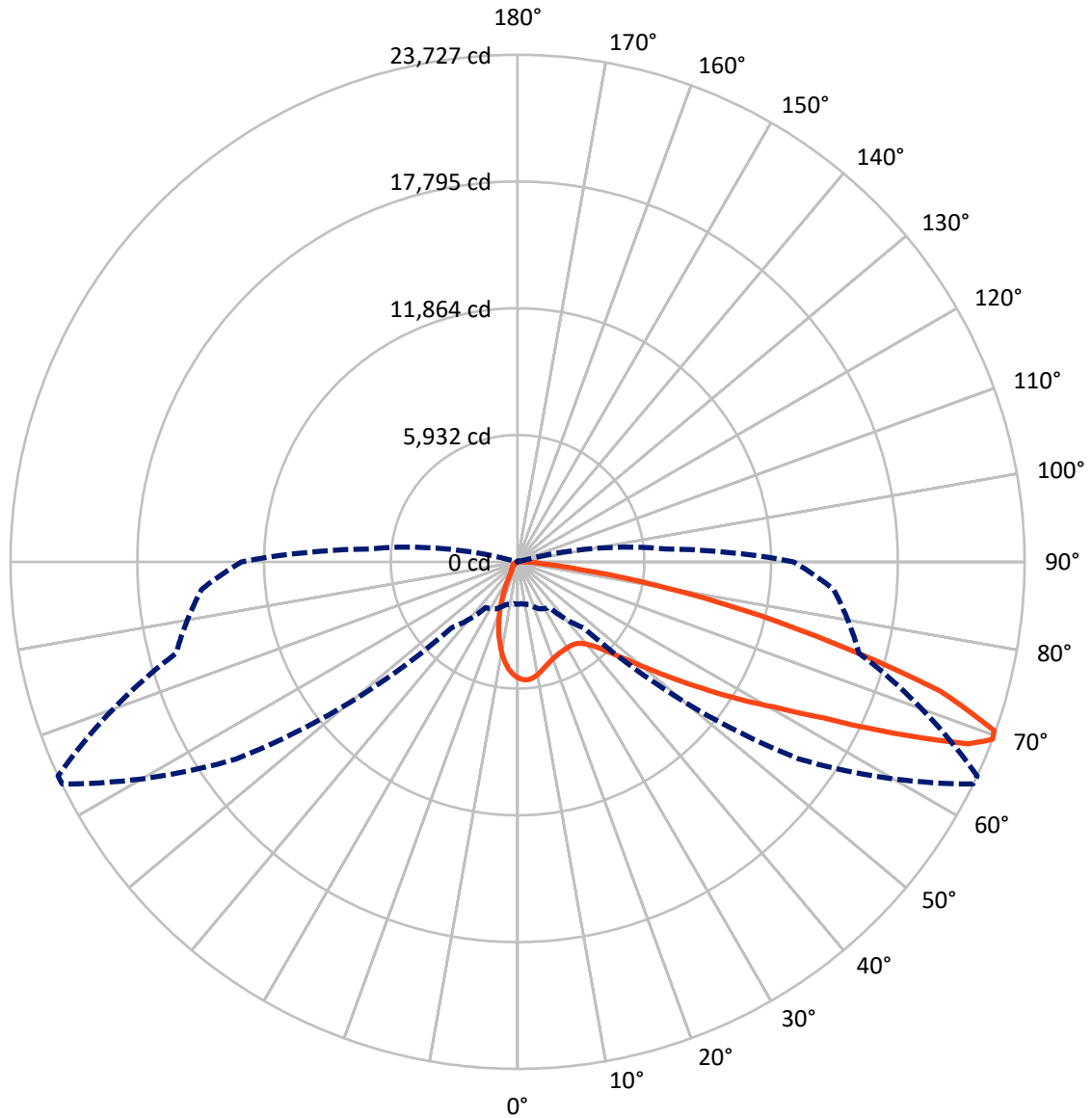
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2537.4	0.0	2537.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18988.6	0.0	18988.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	21526.0	0.0	21526.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.9	2.1
10°-20°	995.7	4.6
20°-30°	1379.1	6.4
30°-40°	1922.9	8.9
40°-50°	2988.9	13.9
50°-60°	4798.3	22.3
60°-70°	5427.7	25.2
70°-80°	3187.7	14.8
80°-90°	370.8	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°	21526.0	100.0
0°-180°	21526.0	100.0

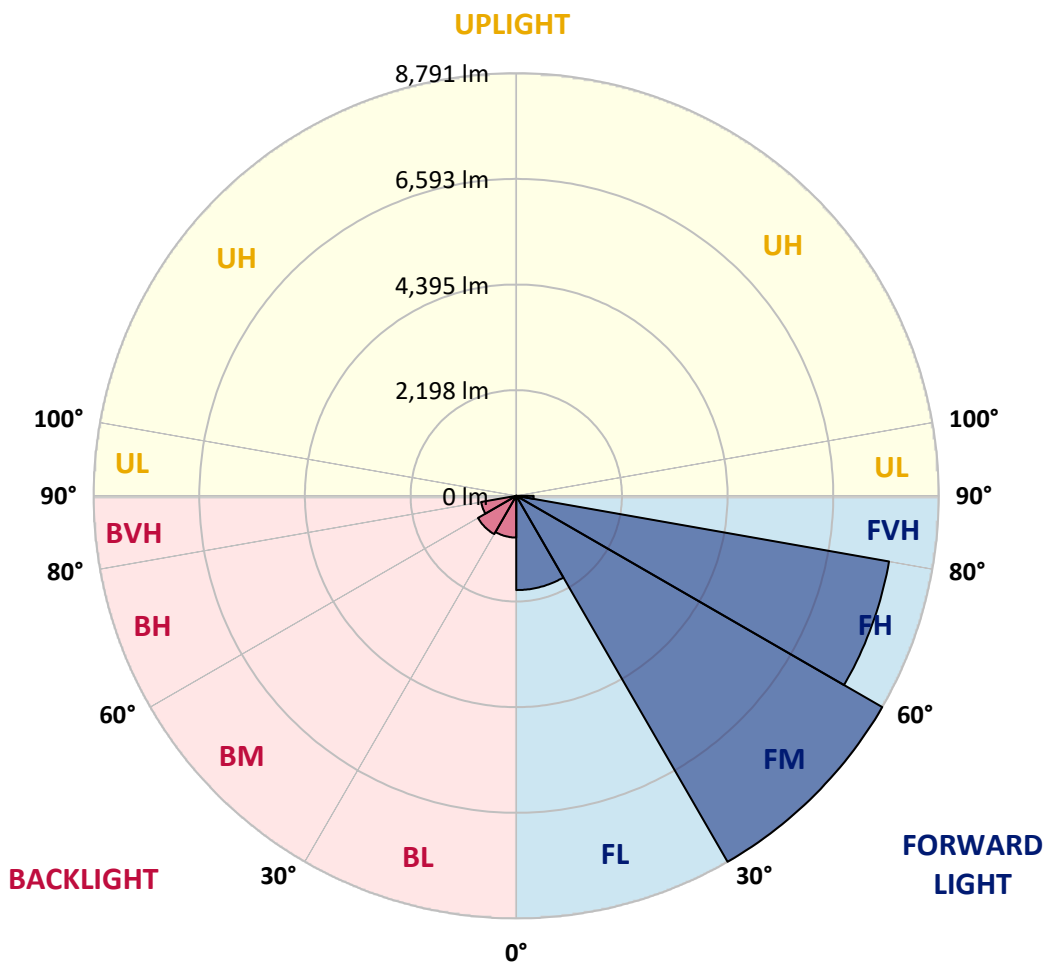


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1961.5	9.1			
FM (30°-60°)	8790.6	40.8			
FH (60°-80°)	7874.0	36.6			G4/12000
FVH (80°-90°)	362.5	1.7			G3/500
BL (0°-30°)	868.2	4.0	B2/1000		
BM (30°-60°)	919.5	4.3	B1/1000		
BH (60°-80°)	741.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7
2.5°	5487.9	5474.3	5485.2	5508.9	5520.7	5520.7	5529.8	5518.9	5522.5	5496.1	5457.9
5°	5144.5	5123.6	5153.6	5220.1	5302.1	5372.3	5476.1	5530.7	5536.2	5537.1	5492.5
7.5°	4774.7	4755.6	4800.2	4878.6	4984.2	5114.5	5295.7	5454.2	5463.3	5549.0	5516.2
10°	4474.1	4460.5	4512.4	4596.2	4720.1	4865.8	5088.1	5308.5	5334.9	5524.4	5512.5
12.5°	4235.5	4224.6	4273.8	4370.3	4496.9	4658.1	4890.4	5146.4	5181.9	5468.8	5494.3
15°	4061.5	4059.7	4100.7	4193.6	4333.9	4484.2	4721.9	4996.1	5037.1	5408.7	5491.6
17.5°	3970.4	3973.2	4003.2	4082.5	4202.7	4352.1	4579.8	4869.5	4914.1	5354.9	5505.2
20°	3961.3	3964.1	3980.5	4025.1	4122.6	4254.6	4464.1	4762.9	4809.3	5314.9	5527.1
22.5°	4041.5	4039.7	4044.2	4039.7	4094.3	4194.5	4387.6	4680.9	4734.7	5288.5	5544.4
25°	4195.4	4192.7	4190.9	4157.2	4120.7	4174.5	4355.7	4634.5	4685.5	5269.3	5554.4
27.5°	4409.5	4407.7	4404.9	4349.4	4240.1	4206.4	4359.4	4617.2	4660.0	5253.8	5552.6
30°	4690.9	4703.7	4700.0	4622.6	4452.3	4303.8	4397.6	4608.0	4645.4	5223.8	5533.5
32.5°	5021.6	5047.1	5067.1	4984.2	4771.1	4496.9	4486.0	4618.1	4645.4	5201.0	5498.9
35°	5365.0	5397.8	5471.5	5442.4	5161.8	4787.5	4638.1	4678.2	4701.0	5213.8	5482.5
37.5°	5702.9	5742.1	5902.4	5987.1	5673.7	5171.9	4874.9	4826.6	4838.5	5291.2	5500.7
40°	6095.5	6154.7	6397.9	6534.5	6284.9	5686.5	5229.2	5081.7	5086.2	5461.5	5585.4
42.5°	6611.0	6672.1	6935.3	7149.3	6973.5	6336.9	5710.2	5471.5	5467.0	5780.3	5784.9
45°	7239.5	7303.3	7575.6	7813.4	7734.1	7107.4	6325.9	6040.8	6035.4	6283.1	6162.9
47.5°	7951.8	8014.7	8257.9	8502.9	8588.5	8007.4	7110.2	6817.8	6805.0	6981.7	6746.7
50°	8563.0	8604.0	8828.1	9157.8	9544.0	9113.2	8085.7	7804.3	7790.6	7909.9	7603.9
52.5°	8785.2	8808.9	9036.6	9498.5	10462.1	10610.6	9367.3	9004.8	8994.7	9046.7	8745.2
55°	8335.3	8378.1	8657.7	9342.7	10959.5	12303.0	10985.0	10491.3	10415.7	10303.7	9938.4
57.5°	7109.3	7177.6	7478.2	8389.0	10727.2	13645.6	13362.3	12172.7	12061.6	11376.6	10908.5
60°	5326.7	5410.5	5660.1	6642.9	9487.5	14123.8	15960.1	14046.4	13795.9	12231.0	11800.2
62.5°	3655.3	3697.2	3866.6	4506.9	6987.2	13340.5	18133.4	16555.8	16098.5	13160.1	12764.8
65°	2791.8	2806.4	2875.6	3096.0	4160.8	10836.5	18997.8	19866.8	19313.9	14271.4	13765.8
67.5°	2249.8	2238.0	2333.6	2648.8	2786.3	6611.0	17989.5	22999.2	22740.5	15757.0	14773.2
69°	1983.9	1967.5	2064.9	2431.1	2616.9	4370.3	16082.2	23710.6	23727.0	16541.2	14842.5
70°	1785.3	1796.2	1892.8	2301.7	2559.5	3430.3	14260.4	23529.3	23658.7	16834.5	14427.1
72.5°	1192.3	1221.5	1415.5	1911.0	2461.1	2596.0	8610.4	20191.0	20688.4	16174.1	12377.7
75°	672.2	694.1	924.5	1441.0	2319.1	2472.1	4547.9	14875.3	15356.2	13525.4	9544.9
77.5°	329.7	341.6	522.8	930.0	1939.2	2355.5	2579.6	10104.2	10653.4	8828.1	5398.7
80°	139.4	145.7	261.4	573.8	1386.3	2248.0	1915.5	6218.4	6286.8	3458.5	1438.2
82.5°	53.7	55.6	110.2	358.0	880.8	1752.5	1602.2	2948.5	2877.4	651.3	327.9
85°	6.4	7.3	40.1	215.0	490.0	901.8	1301.6	1270.7	1175.9	129.3	168.5
87.5°	0.0	0.0	2.7	65.6	145.7	422.6	676.8	527.4	475.5	41.9	87.4
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°	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7	5439.7
2.5°	5426.0	5416.9	5367.7	5296.7	5229.2	5145.5	5065.3	5017.0	4978.8	4953.3	4983.3
5°	5440.6	5400.5	5251.1	5059.8	4872.2	4660.9	4464.1	4297.4	4231.9	4159.0	4191.8
7.5°	5436.0	5360.4	5091.7	4751.0	4406.7	4050.6	3713.6	3454.0	3319.2	3187.1	3220.8
10°	5413.2	5285.7	4878.6	4374.0	3858.4	3346.5	2868.3	2504.9	2301.7	2117.8	2144.2
12.5°	5363.1	5185.5	4627.2	3942.2	3252.7	2577.7	2017.6	1552.1	1302.5	1192.3	1206.0
15°	5333.1	5088.1	4361.2	3505.0	2606.0	1795.3	1233.3	917.2	803.4	766.9	771.5
17.5°	5318.5	4994.2	4086.1	3004.9	1944.7	1143.1	797.0	703.2	678.6	672.2	674.0
20°	5303.9	4899.5	3802.8	2510.3	1339.9	768.8	654.9	627.6	618.5	610.3	612.1
22.5°	5279.3	4808.4	3498.6	2009.4	903.6	623.9	590.2	563.8	544.7	534.7	536.5
25°	5249.3	4712.8	3188.0	1496.5	659.5	556.5	524.7	487.3	464.5	446.3	447.2
27.5°	5201.0	4595.3	2867.4	1089.4	553.8	498.2	455.4	414.4	376.2	355.2	355.2
30°	5133.6	4462.3	2511.2	779.7	496.4	440.9	388.9	337.9	296.9	277.8	276.0
32.5°	5058.9	4323.9	2151.5	591.1	450.9	387.1	327.9	274.2	237.7	222.2	221.3
35°	4995.2	4174.5	1792.6	495.5	405.3	335.2	270.5	225.0	195.8	183.1	182.2
37.5°	4954.2	4025.1	1442.8	442.7	364.3	286.9	226.8	185.8	164.9	154.8	153.9
40°	4947.8	3914.0	1123.1	402.6	326.1	244.1	189.5	157.6	138.5	127.5	126.6
42.5°	5030.7	3850.2	861.7	368.9	286.9	206.8	161.2	134.8	114.8	103.8	102.9
45°	5248.4	3870.2	663.1	338.8	247.8	174.9	136.6	112.0	93.8	85.6	83.8
47.5°	5645.5	4008.7	527.4	308.8	210.4	148.5	116.6	92.9	77.4	69.2	68.3
50°	6352.3	4333.9	440.9	276.0	175.8	126.6	96.6	75.6	62.8	55.6	54.7
52.5°	7290.5	4913.2	393.5	244.1	145.7	107.5	79.2	60.1	49.2	43.7	42.8
55°	8325.3	5614.5	362.5	209.5	119.3	89.3	62.8	47.4	38.3	33.7	31.9
57.5°	9335.4	6222.1	333.4	175.8	99.3	72.9	50.1	37.3	30.1	25.5	24.6
60°	10263.6	6780.4	299.7	141.2	81.1	57.4	39.2	29.1	23.7	19.1	19.1
62.5°	11257.3	7212.2	253.2	110.2	66.5	43.7	31.9	26.4	19.1	16.4	15.5
65°	12310.3	7532.8	198.6	85.6	51.9	32.8	26.4	27.3	15.5	11.8	10.9
67.5°	13088.2	7469.1	146.6	67.4	40.1	25.5	25.5	29.1	13.7	9.1	8.2
69°	12916.9	6950.8	123.0	58.3	34.6	21.9	23.7	29.1	12.8	8.2	7.3
70°	12420.5	6376.9	108.4	51.9	31.0	20.0	22.8	28.2	11.8	8.2	7.3
72.5°	10343.7	4803.0	84.7	39.2	24.6	16.4	19.1	24.6	11.8	8.2	6.4
75°	7780.6	3074.2	64.7	28.2	18.2	12.8	14.6	18.2	11.8	7.3	6.4
77.5°	4233.7	1108.5	46.5	19.1	12.8	10.0	10.0	13.7	10.9	5.5	3.6
80°	1088.5	278.7	29.1	12.8	10.0	7.3	6.4	9.1	6.4	0.9	0.0
82.5°	268.7	62.8	15.5	9.1	7.3	2.7	2.7	4.6	2.7	0.0	0.0
85°	147.6	31.0	10.0	6.4	3.6	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	75.6	9.1	2.7	1.8	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)