

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: P323339

Luminaire Tested: **GLEON-SA5D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323339
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-SA5D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 23613 lumens
Efficiency: N/A
Efficacy: 73.8 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): 320
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

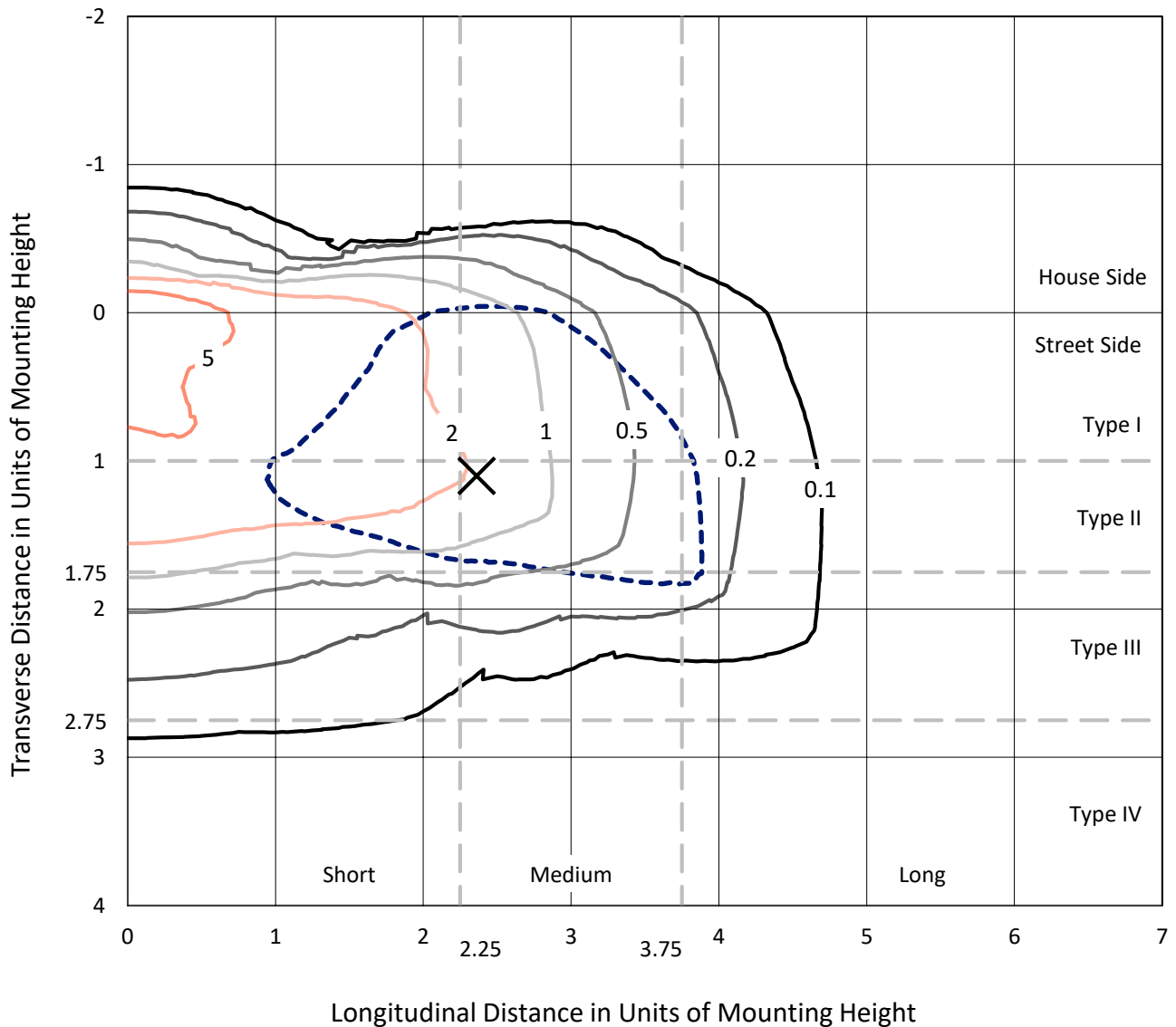




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Iso-Footcandle Lines of Horizontal Illumination

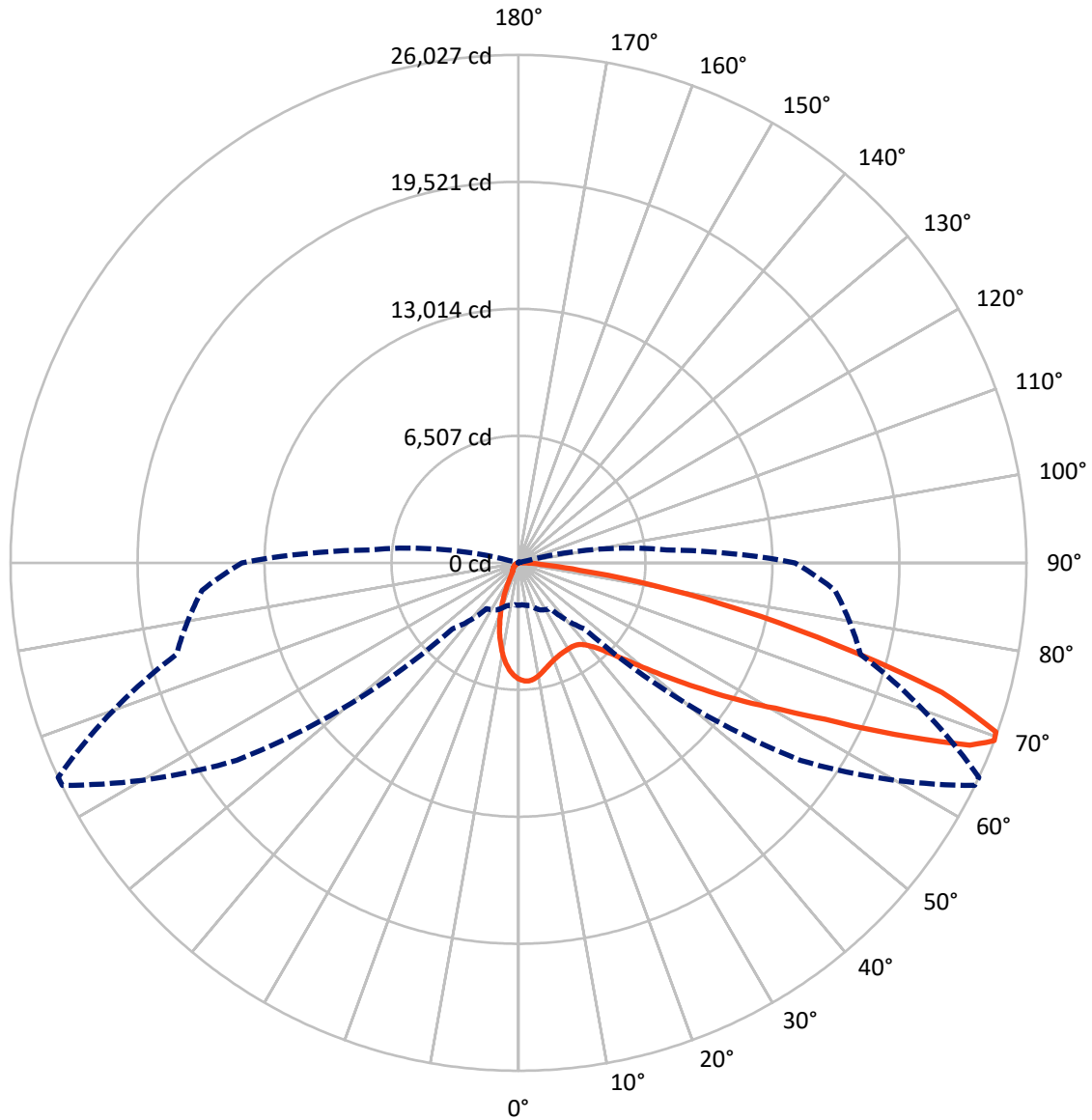
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	2783.4	0.0	2783.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20829.6	0.0	20829.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	23613.0	0.0	23613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.0	2.1
10°-20°	1092.3	4.6
20°-30°	1512.8	6.4
30°-40°	2109.4	8.9
40°-50°	3278.6	13.9
50°-60°	5263.5	22.3
60°-70°	5953.9	25.2
70°-80°	3496.8	14.8
80°-90°	406.8	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°	23613.0	100.0
0°-180°	23613.0	100.0

Coefficient of Utilization

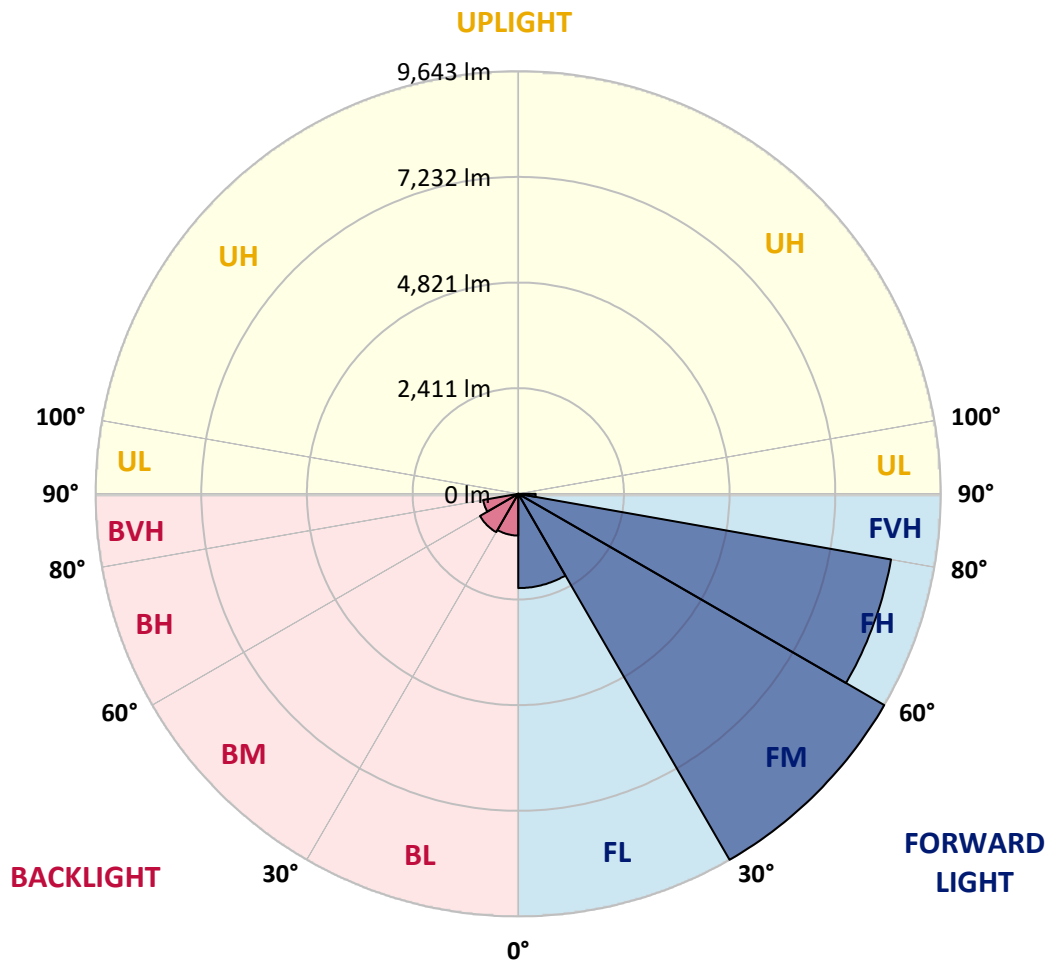


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.7	9.1			
FM (30°-60°)	9642.9	40.8			
FH (60°-80°)	8637.4	36.6			G4/12000
FVH (80°-90°)	397.6	1.7			G3/500
BL (0°-30°)	952.4	4.0	B2/1000		
BM (30°-60°)	1008.6	4.3	B2/2500		
BH (60°-80°)	813.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.2	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°	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0
2.5°	6020.0	6005.0	6017.0	6043.0	6056.0	6056.0	6066.0	6054.0	6058.0	6029.0	5987.0
5°	5643.3	5620.3	5653.3	5726.2	5816.2	5893.1	6007.0	6067.0	6073.0	6074.0	6025.0
7.5°	5237.7	5216.7	5265.6	5351.6	5467.5	5610.3	5809.2	5983.0	5993.0	6086.9	6051.0
10°	4907.9	4892.9	4949.9	5041.8	5177.7	5337.6	5581.4	5823.2	5852.1	6060.0	6047.0
12.5°	4646.1	4634.2	4688.1	4794.0	4932.9	5109.8	5364.5	5645.3	5684.3	5999.0	6027.0
15°	4455.3	4453.3	4498.3	4600.2	4754.1	4918.9	5179.7	5480.5	5525.4	5933.1	6024.0
17.5°	4355.4	4358.4	4391.4	4478.3	4610.2	4774.0	5023.8	5341.6	5390.5	5874.1	6039.0
20°	4345.4	4348.4	4366.4	4415.3	4522.2	4667.1	4896.9	5224.7	5275.6	5830.2	6063.0
22.5°	4433.3	4431.3	4436.3	4431.3	4491.3	4601.2	4813.0	5134.7	5193.7	5801.2	6082.0
25°	4602.2	4599.2	4597.2	4560.2	4520.2	4579.2	4778.0	5083.8	5139.7	5780.2	6092.9
27.5°	4837.0	4835.0	4832.0	4771.0	4651.1	4614.2	4782.0	5064.8	5111.8	5763.2	6090.9
30°	5145.7	5159.7	5155.7	5070.8	4883.9	4721.1	4824.0	5054.8	5095.8	5730.2	6070.0
32.5°	5508.4	5536.4	5558.4	5467.5	5233.7	4932.9	4920.9	5065.8	5095.8	5705.3	6032.0
35°	5885.1	5921.1	6002.0	5970.0	5662.3	5251.6	5087.8	5131.7	5156.7	5719.3	6014.0
37.5°	6255.8	6298.8	6474.6	6567.5	6223.8	5673.3	5347.6	5294.6	5307.6	5804.2	6034.0
40°	6686.4	6751.4	7018.2	7168.0	6894.3	6237.8	5736.2	5574.4	5579.4	5991.0	6126.9
42.5°	7252.0	7318.9	7607.7	7842.5	7649.6	6951.2	6263.8	6002.0	5997.0	6340.7	6345.7
45°	7941.4	8011.3	8310.1	8570.9	8484.0	7796.5	6939.2	6626.5	6620.5	6892.3	6760.4
47.5°	8722.8	8791.7	9058.5	9327.3	9421.2	8783.7	7799.5	7478.8	7464.8	7658.6	7400.9
50°	9393.2	9438.2	9684.0	10045.7	10469.3	9996.7	8869.6	8560.9	8545.9	8676.8	8341.1
52.5°	9637.0	9663.0	9912.8	10419.4	11476.5	11639.3	10275.5	9877.8	9866.8	9923.8	9593.0
55°	9143.4	9190.4	9497.1	10248.5	12022.0	13495.8	12050.0	11508.4	11425.5	11302.6	10901.9
57.5°	7798.5	7873.5	8203.2	9202.4	11767.2	14968.6	14657.8	13352.9	13231.0	12479.6	11966.1
60°	5843.1	5935.1	6208.8	7287.0	10407.4	15493.1	17507.5	15408.2	15133.4	13416.9	12944.3
62.5°	4009.7	4055.6	4241.5	4943.9	7664.6	14633.9	19891.5	18160.9	17659.3	14436.0	14002.4
65°	3062.5	3078.4	3154.4	3396.2	4564.2	11887.1	20839.7	21792.9	21186.4	15655.0	15100.5
67.5°	2468.0	2455.0	2559.9	2905.6	3056.5	7252.0	19733.6	25229.1	24945.3	17284.7	16205.5
69°	2176.2	2158.2	2265.1	2666.8	2870.6	4794.0	17641.4	26009.4	26027.4	18144.9	16281.5
70°	1958.4	1970.4	2076.3	2524.9	2807.7	3762.9	15643.0	25810.6	25952.5	18466.7	15825.9
72.5°	1307.9	1339.9	1552.7	2096.3	2699.8	2847.6	9445.2	22148.6	22694.2	17742.3	13577.7
75°	737.4	761.4	1014.2	1580.7	2543.9	2711.7	4988.9	16317.5	16845.0	14836.7	10470.3
77.5°	361.7	374.7	573.5	1020.2	2127.2	2583.9	2829.7	11083.8	11686.3	9684.0	5922.1
80°	152.9	159.9	286.8	629.5	1520.7	2466.0	2101.3	6821.3	6896.3	3793.9	1577.7
82.5°	59.0	60.9	120.9	392.7	966.2	1922.4	1757.5	3234.3	3156.4	714.4	359.7
85°	7.0	8.0	44.0	235.8	537.6	989.2	1427.8	1393.8	1289.9	141.9	184.8
87.5°	0.0	0.0	3.0	71.9	159.9	463.6	742.4	578.5	521.6	46.0	95.9
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°	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0	5967.0
2.5°	5952.1	5942.1	5888.1	5810.2	5736.2	5644.3	5556.4	5503.4	5461.5	5433.5	5466.5
5°	5968.0	5924.1	5760.2	5550.4	5344.6	5112.8	4896.9	4714.1	4642.1	4562.2	4598.2
7.5°	5963.0	5880.1	5585.4	5211.7	4834.0	4443.3	4073.6	3788.9	3641.0	3496.1	3533.1
10°	5938.1	5798.2	5351.6	4798.0	4232.5	3671.0	3146.4	2747.7	2524.9	2323.1	2352.0
12.5°	5883.1	5688.3	5075.8	4324.4	3568.0	2827.7	2213.2	1702.6	1428.8	1307.9	1322.9
15°	5850.1	5581.4	4784.0	3844.8	2858.6	1969.4	1352.9	1006.2	881.3	841.3	846.3
17.5°	5834.2	5478.5	4482.3	3296.3	2133.2	1254.0	874.3	771.4	744.4	737.4	739.4
20°	5818.2	5374.5	4171.5	2753.7	1469.8	843.3	718.4	688.4	678.4	669.4	671.4
22.5°	5791.2	5274.6	3837.8	2204.2	991.2	684.4	647.5	618.5	597.5	586.5	588.5
25°	5758.2	5169.7	3497.1	1641.6	723.4	610.5	575.5	534.6	509.6	489.6	490.6
27.5°	5705.3	5040.8	3145.4	1195.0	607.5	546.5	499.6	454.6	412.7	389.7	389.7
30°	5631.3	4894.9	2754.7	855.3	544.5	483.6	426.6	370.7	325.7	304.7	302.7
32.5°	5549.4	4743.1	2360.0	648.5	494.6	424.6	359.7	300.8	260.8	243.8	242.8
35°	5479.5	4579.2	1966.4	543.5	444.6	367.7	296.8	246.8	214.8	200.8	199.8
37.5°	5434.5	4415.3	1582.7	485.6	399.7	314.7	248.8	203.8	180.8	169.9	168.9
40°	5427.5	4293.4	1232.0	441.6	357.7	267.8	207.8	172.9	151.9	139.9	138.9
42.5°	5518.4	4223.5	945.2	404.7	314.7	226.8	176.9	147.9	125.9	113.9	112.9
45°	5757.2	4245.5	727.4	371.7	271.8	191.8	149.9	122.9	102.9	93.9	91.9
47.5°	6192.9	4397.3	578.5	338.7	230.8	162.9	127.9	101.9	84.9	75.9	74.9
50°	6968.2	4754.1	483.6	302.7	192.8	138.9	105.9	82.9	68.9	60.9	60.0
52.5°	7997.4	5389.5	431.6	267.8	159.9	117.9	86.9	65.9	54.0	48.0	47.0
55°	9132.4	6158.9	397.7	229.8	130.9	97.9	68.9	52.0	42.0	37.0	35.0
57.5°	10240.5	6825.3	365.7	192.8	108.9	79.9	55.0	41.0	33.0	28.0	27.0
60°	11258.7	7437.8	328.7	154.9	88.9	62.9	43.0	32.0	26.0	21.0	21.0
62.5°	12348.7	7911.4	277.8	120.9	72.9	48.0	35.0	29.0	21.0	18.0	17.0
65°	13503.8	8263.1	217.8	93.9	57.0	36.0	29.0	30.0	17.0	13.0	12.0
67.5°	14357.1	8193.2	160.9	73.9	44.0	28.0	28.0	32.0	15.0	10.0	9.0
69°	14169.2	7624.7	134.9	63.9	38.0	24.0	26.0	32.0	14.0	9.0	8.0
70°	13624.7	6995.2	118.9	57.0	34.0	22.0	25.0	31.0	13.0	9.0	8.0
72.5°	11346.6	5268.6	92.9	43.0	27.0	18.0	21.0	27.0	13.0	9.0	7.0
75°	8534.9	3372.2	70.9	31.0	20.0	14.0	16.0	20.0	13.0	8.0	7.0
77.5°	4644.1	1216.0	51.0	21.0	14.0	11.0	11.0	15.0	12.0	6.0	4.0
80°	1194.0	305.7	32.0	14.0	11.0	8.0	7.0	10.0	7.0	1.0	0.0
82.5°	294.8	68.9	17.0	10.0	8.0	3.0	3.0	5.0	3.0	0.0	0.0
85°	161.9	34.0	11.0	7.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	82.9	10.0	3.0	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)