

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: P321724

Luminaire Tested: **GLEON-SA0B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31979 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

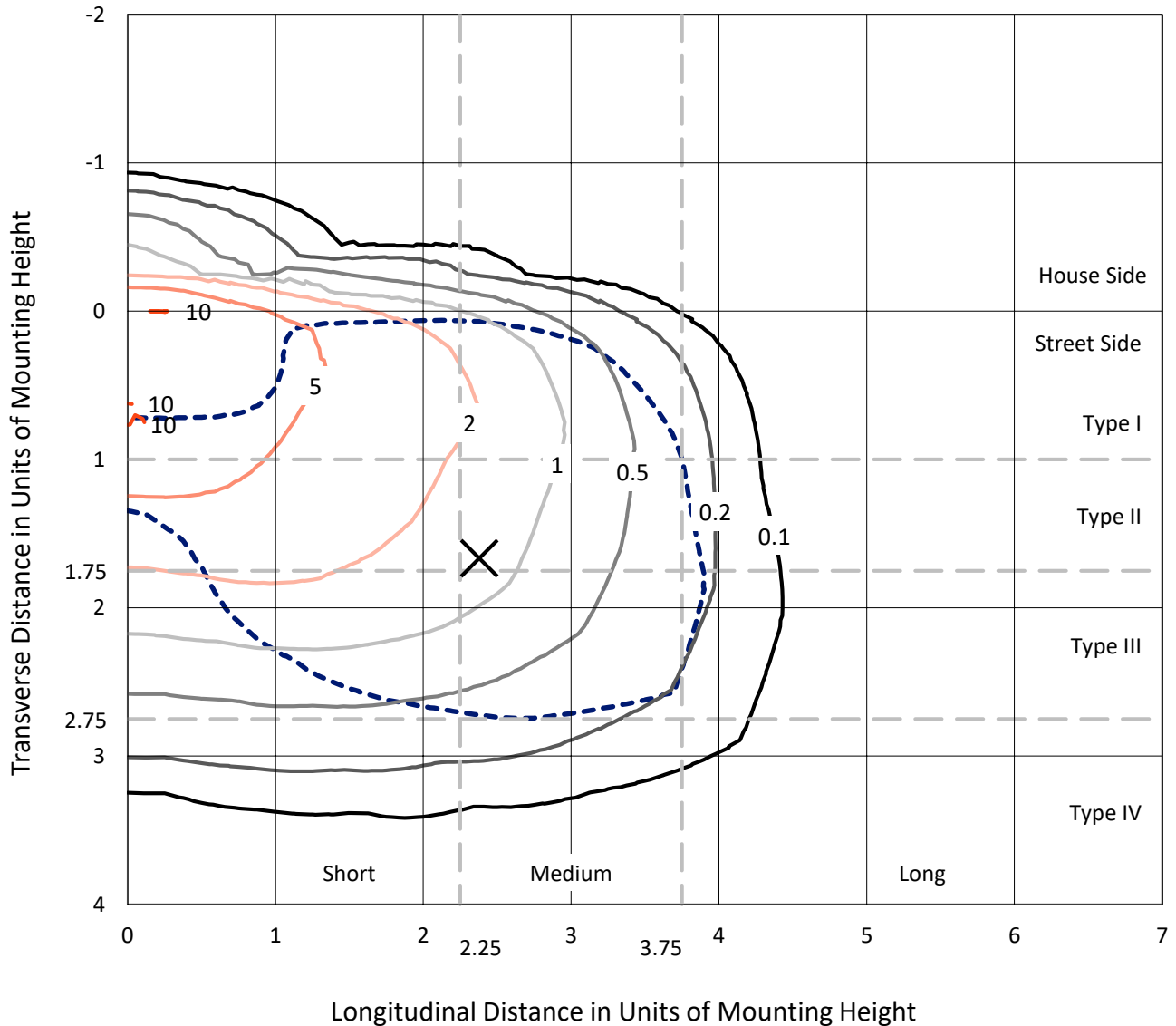
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

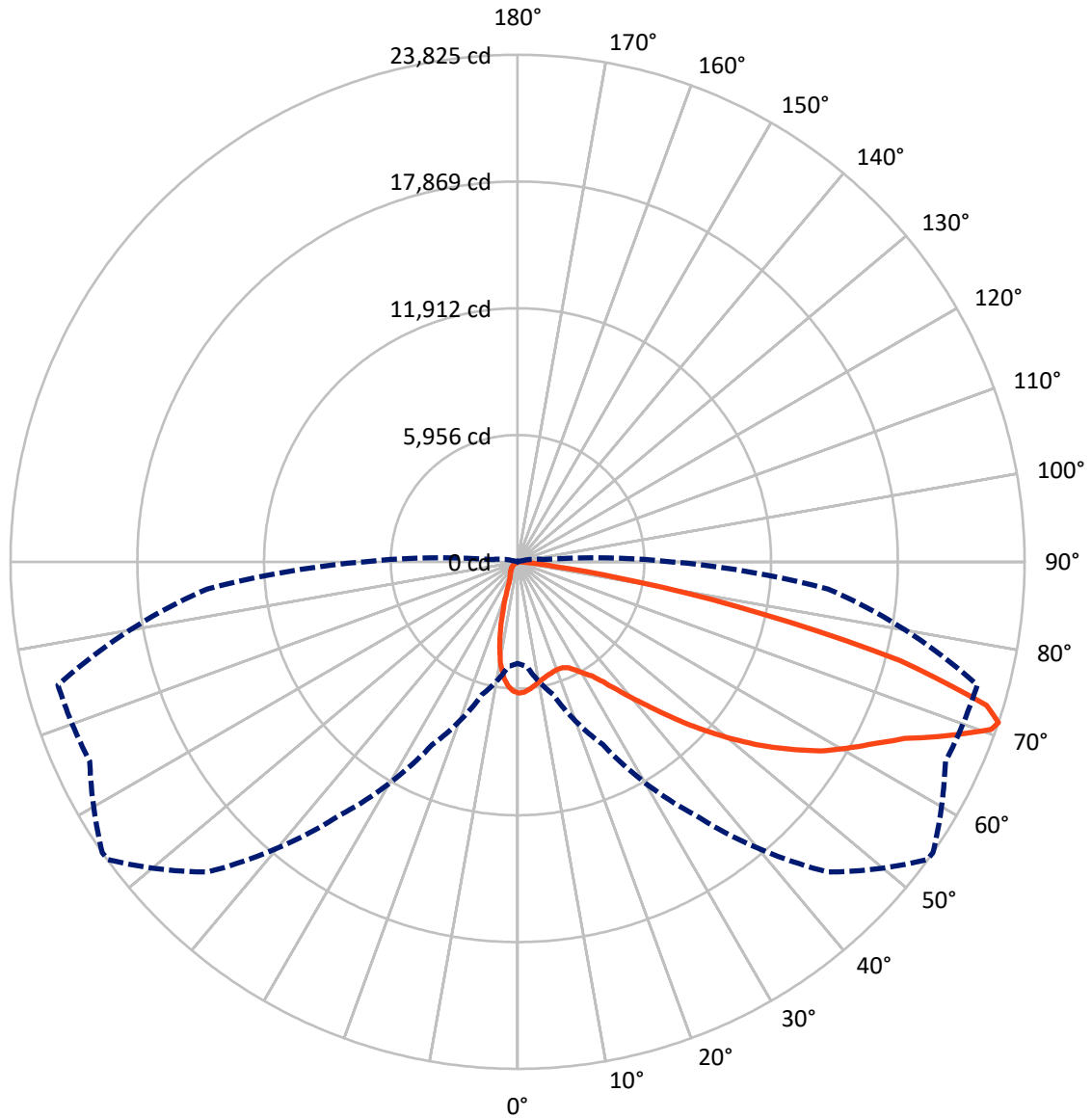
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.9	0.0	2531.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	29447.1	0.0	29447.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	31979.0	0.0	31979.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.8	1.6
10°-20°	1187.1	3.7
20°-30°	1907.8	6.0
30°-40°	3241.4	10.1
40°-50°	5031.0	15.7
50°-60°	6764.1	21.2
60°-70°	8274.7	25.9
70°-80°	4838.0	15.1
80°-90°	209.1	0.7
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°	31979.0	100.0
0°-180°	31979.0	100.0

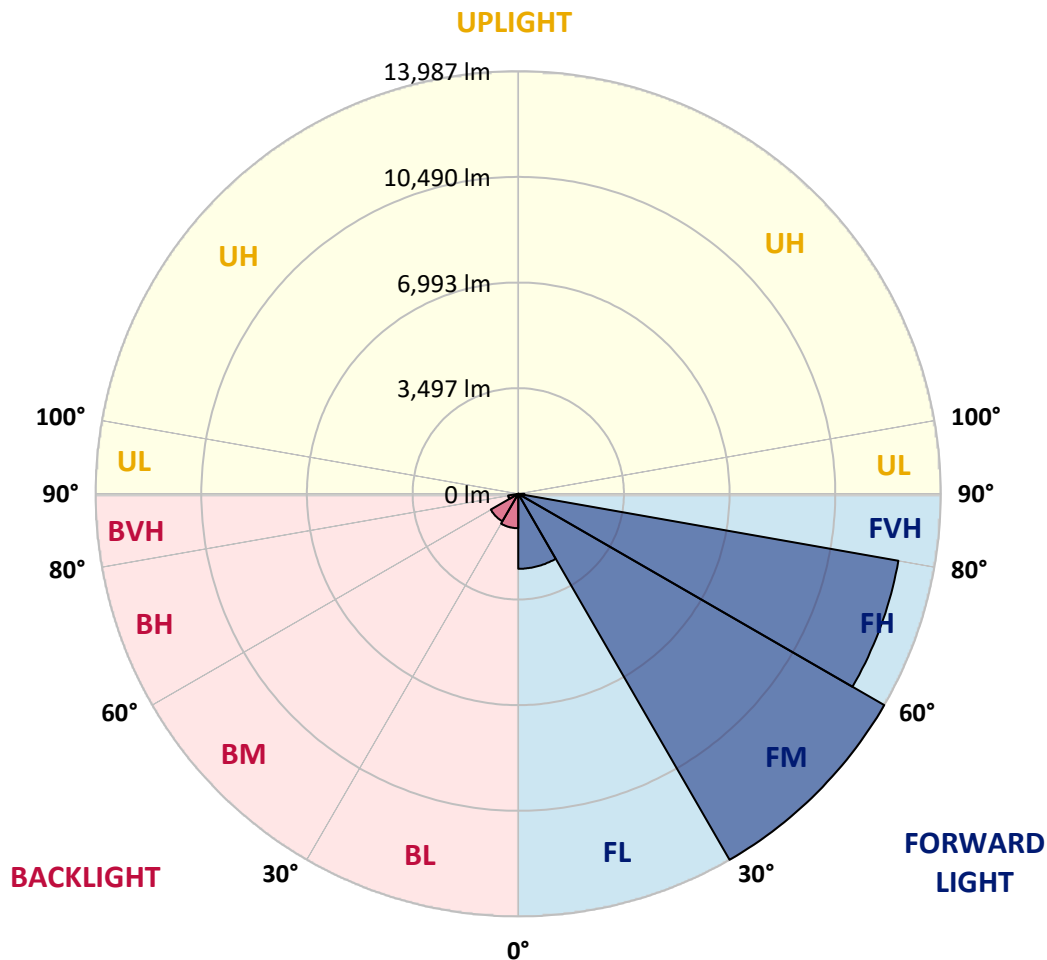


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.1	7.8			
FM (30°-60°)	13986.7	43.7			
FH (60°-80°)	12773.5	39.9			G5
FVH (80°-90°)	205.8	0.6			G2/225
BL (0°-30°)	1139.6	3.6	B3/2500		
BM (30°-60°)	1049.8	3.3	B2/2500		
BH (60°-80°)	339.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3
2.5°	5986.3	5993.5	6019.4	6030.9	6058.1	6104.1	6127.1	6128.5	6165.8	6180.2	6191.7
5°	5562.7	5605.8	5648.9	5694.8	5778.1	5888.7	5997.8	6007.9	6128.5	6217.5	6264.9
7.5°	5198.0	5236.8	5288.5	5361.7	5479.5	5653.2	5835.6	5857.1	6085.4	6287.9	6394.1
10°	4823.2	4854.8	4929.5	5037.2	5199.5	5432.1	5677.6	5713.5	6046.6	6382.7	6569.3
12.5°	4422.6	4441.3	4531.8	4686.8	4925.2	5221.0	5544.1	5591.5	6022.2	6491.8	6776.1
15°	4118.2	4126.8	4213.0	4373.8	4646.6	5031.5	5440.7	5498.1	6028.0	6622.5	7001.5
17.5°	4040.7	4045.0	4090.9	4201.5	4442.7	4862.0	5358.8	5429.2	6045.2	6750.2	7228.4
20°	4355.1	4325.0	4277.6	4260.4	4363.8	4760.1	5310.0	5389.0	6068.2	6863.7	7432.3
22.5°	5218.1	5129.1	4932.4	4669.6	4510.2	4767.2	5322.9	5401.9	6141.4	7003.0	7667.8
25°	6499.0	6375.5	6040.9	5524.0	5027.1	4974.0	5430.6	5511.1	6283.6	7169.5	7893.2
27.5°	7956.4	7834.4	7425.1	6687.1	5839.9	5383.3	5677.6	5752.3	6494.7	7317.4	8065.5
30°	9352.1	9317.7	8835.2	7996.6	6862.2	6046.6	5996.4	6059.6	6651.2	7406.5	8202.0
32.5°	10535.3	10480.8	10093.1	9277.5	8032.5	6843.6	6371.2	6389.8	6768.9	7521.3	8380.0
35°	11632.4	11564.9	11224.6	10453.5	9232.9	7817.1	6948.4	6921.1	7025.9	7752.5	8638.5
37.5°	12590.1	12651.9	12274.2	11540.5	10309.9	8829.5	7726.7	7644.8	7428.0	8128.7	9013.3
40°	13391.4	13391.4	13194.6	12582.9	11473.0	9876.2	8606.9	8499.2	8032.5	8708.8	9488.5
42.5°	13680.0	13741.7	13815.0	13468.9	12514.0	10964.7	9587.6	9475.6	8884.0	9531.6	10088.8
45°	13697.2	13794.9	14169.6	14168.2	13454.5	12045.9	10693.3	10640.1	9975.3	10588.5	10832.6
47.5°	13454.5	13576.6	14194.0	14544.4	14199.8	13052.5	11902.3	11836.3	11257.6	11883.7	11610.8
50°	13079.8	13214.7	13932.7	14692.3	14706.7	13928.4	13176.0	13076.9	12669.1	13364.1	12414.9
52.5°	12409.2	12670.5	13698.7	14726.8	15039.8	14685.1	14387.9	14344.8	14248.6	14789.9	13055.4
55°	10974.7	11264.8	13111.4	14738.3	15348.5	15355.7	15523.7	15535.2	15729.0	16122.5	13532.1
57.5°	10297.0	10460.7	12086.1	14792.8	15806.6	16116.7	16681.1	16770.1	17070.2	17387.5	14076.3
60°	9870.5	10064.3	11580.7	14718.2	16526.0	17114.7	17753.7	17783.8	18105.5	18692.8	14812.9
62.5°	9530.2	9721.2	11261.9	14431.0	17334.4	18315.1	18801.9	18804.8	19046.0	20247.9	15650.1
65°	8690.2	8851.0	10617.2	14107.9	17868.6	19502.6	20019.6	20000.9	20197.6	21887.7	16622.2
67.5°	7475.4	7598.9	9300.4	12883.1	17667.5	20582.4	21857.5	21795.8	21557.4	23304.9	17004.1
70°	5779.6	5824.1	7330.4	10736.4	15783.6	20997.4	23633.8	23602.2	22391.7	23050.8	15604.1
71°	4777.3	4923.8	6460.2	9475.6	14521.4	20614.0	23806.1	23824.7	22182.1	22358.7	14640.6
72.5°	2774.2	2899.1	4682.5	7277.2	12328.8	19014.4	22912.9	23047.9	21202.8	20336.9	12505.4
75°	594.5	636.1	1736.0	3522.3	6781.8	13326.7	18085.4	18566.4	17281.3	13835.1	7537.1
77.5°	413.5	446.6	743.8	1598.2	2241.5	6585.1	11234.6	11777.4	10324.2	5199.5	2412.3
80°	327.4	364.7	580.1	789.8	606.0	2123.7	5262.6	5594.3	3443.3	1160.2	406.4
82.5°	182.4	216.8	452.3	426.5	232.6	403.5	1473.3	1665.7	689.2	234.1	96.2
85°	53.1	64.6	291.5	310.2	99.1	77.5	251.3	311.6	130.7	61.7	43.1
87.5°	0.0	0.0	140.7	119.2	28.7	11.5	23.0	25.8	25.8	25.8	28.7
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°	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3	6167.3
2.5°	6191.7	6201.7	6165.8	6118.4	6068.2	6006.4	5941.8	5891.6	5890.1	5865.7	5841.3
5°	6267.8	6262.0	6163.0	6012.2	5834.1	5648.9	5472.3	5272.7	5206.6	5124.8	5097.5
7.5°	6408.5	6368.3	6158.6	5828.4	5437.8	5050.1	4649.5	4246.0	4073.7	3918.6	3891.3
10°	6585.1	6509.0	6131.4	5552.7	4836.2	4121.1	3516.6	2968.0	2726.8	2541.6	2533.0
12.5°	6768.9	6652.6	6055.3	5136.3	4047.9	3042.7	2346.3	1806.4	1605.4	1476.1	1487.6
15°	6961.3	6787.6	5891.6	4574.8	3150.4	2064.8	1441.7	1124.3	1043.9	1010.9	1019.5
17.5°	7158.0	6880.9	5663.3	3898.5	2264.4	1332.5	998.0	908.9	908.9	916.1	919.0
20°	7328.9	6931.2	5327.3	3140.4	1535.0	970.7	873.0	860.1	867.3	878.8	880.2
22.5°	7498.4	6934.0	4889.3	2372.1	1074.1	850.1	831.4	825.7	830.0	842.9	844.3
25°	7636.2	6899.6	4340.8	1687.2	857.2	801.2	792.6	789.8	792.6	808.4	808.4
27.5°	7692.2	6774.7	3671.6	1186.1	768.2	746.7	743.8	746.7	751.0	762.5	763.9
30°	7698.0	6556.4	2942.2	858.7	696.4	673.4	679.2	689.2	684.9	682.1	684.9
32.5°	7712.3	6303.7	2231.4	706.5	636.1	600.2	593.0	593.0	575.8	565.8	560.0
35°	7759.7	6006.4	1618.3	634.7	574.4	532.7	505.4	473.9	440.8	423.6	419.3
37.5°	7834.4	5694.8	1158.8	587.3	519.8	472.4	420.7	364.7	317.3	304.4	304.4
40°	7970.8	5373.2	857.2	550.0	476.7	417.9	340.3	267.1	224.0	216.8	216.8
42.5°	8186.2	5034.3	683.5	516.9	439.4	361.9	259.9	193.8	162.3	158.0	156.5
45°	8410.2	4661.0	597.3	485.3	399.2	297.2	192.4	143.6	124.9	120.6	120.6
47.5°	8634.2	4263.2	555.7	455.2	360.4	231.2	143.6	113.4	104.8	104.8	106.3
50°	8823.7	3848.3	525.5	422.2	310.2	175.2	113.4	96.2	93.3	99.1	100.5
52.5°	8871.1	3440.5	488.2	380.5	248.4	133.5	93.3	84.7	84.7	84.7	84.7
55°	8842.4	3124.6	439.4	328.8	183.8	106.3	80.4	74.7	73.2	73.2	73.2
57.5°	8940.0	2937.9	351.8	255.6	132.1	86.2	70.4	66.1	63.2	61.7	61.7
60°	9136.7	2815.8	251.3	183.8	99.1	71.8	60.3	56.0	51.7	48.8	48.8
62.5°	9398.1	2709.6	186.7	136.4	76.1	57.4	50.3	45.9	40.2	37.3	37.3
65°	9599.1	2520.0	142.2	102.0	57.4	45.9	38.8	37.3	28.7	25.8	24.4
67.5°	9291.8	2103.6	114.9	74.7	43.1	35.9	30.2	28.7	17.2	14.4	14.4
70°	7969.3	1464.6	91.9	54.6	31.6	28.7	24.4	18.7	12.9	11.5	11.5
71°	7227.0	1223.4	83.3	45.9	27.3	27.3	23.0	15.8	11.5	10.1	10.1
72.5°	6003.6	868.7	70.4	35.9	24.4	28.7	24.4	14.4	11.5	10.1	8.6
75°	3485.0	363.3	48.8	24.4	18.7	34.5	31.6	12.9	8.6	7.2	7.2
77.5°	1048.2	133.5	27.3	15.8	14.4	30.2	35.9	11.5	4.3	1.4	1.4
80°	191.0	57.4	17.2	10.1	10.1	18.7	27.3	5.7	0.0	0.0	0.0
82.5°	67.5	28.7	10.1	5.7	4.3	8.6	12.9	0.0	0.0	0.0	0.0
85°	38.8	20.1	5.7	2.9	0.0	1.4	2.9	0.0	0.0	0.0	0.0
87.5°	25.8	5.7	0.0	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)