

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: P321732

Luminaire Tested: **GLEON-SA8C-827-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321732  
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-SA8C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA 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: 32050 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

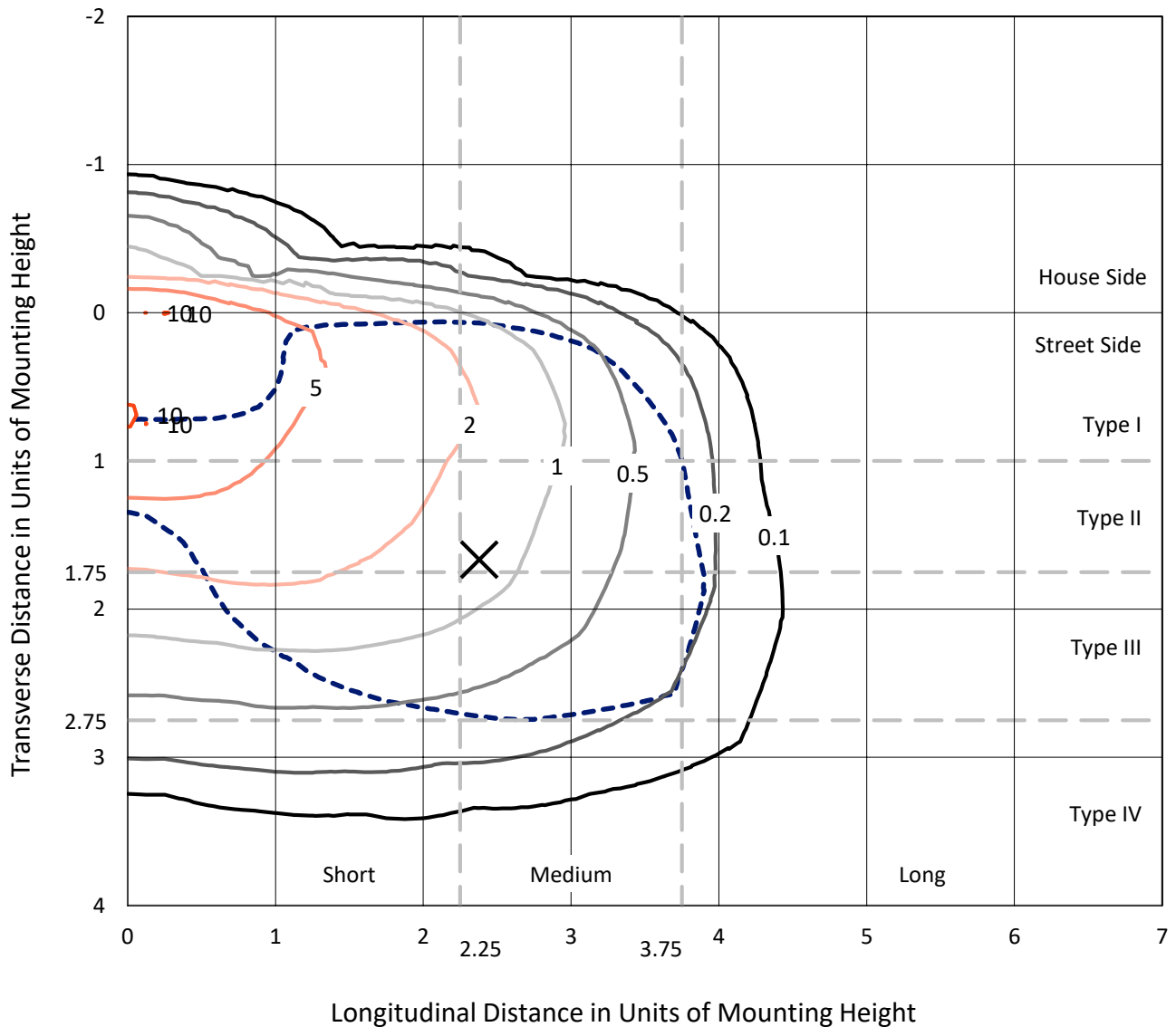
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

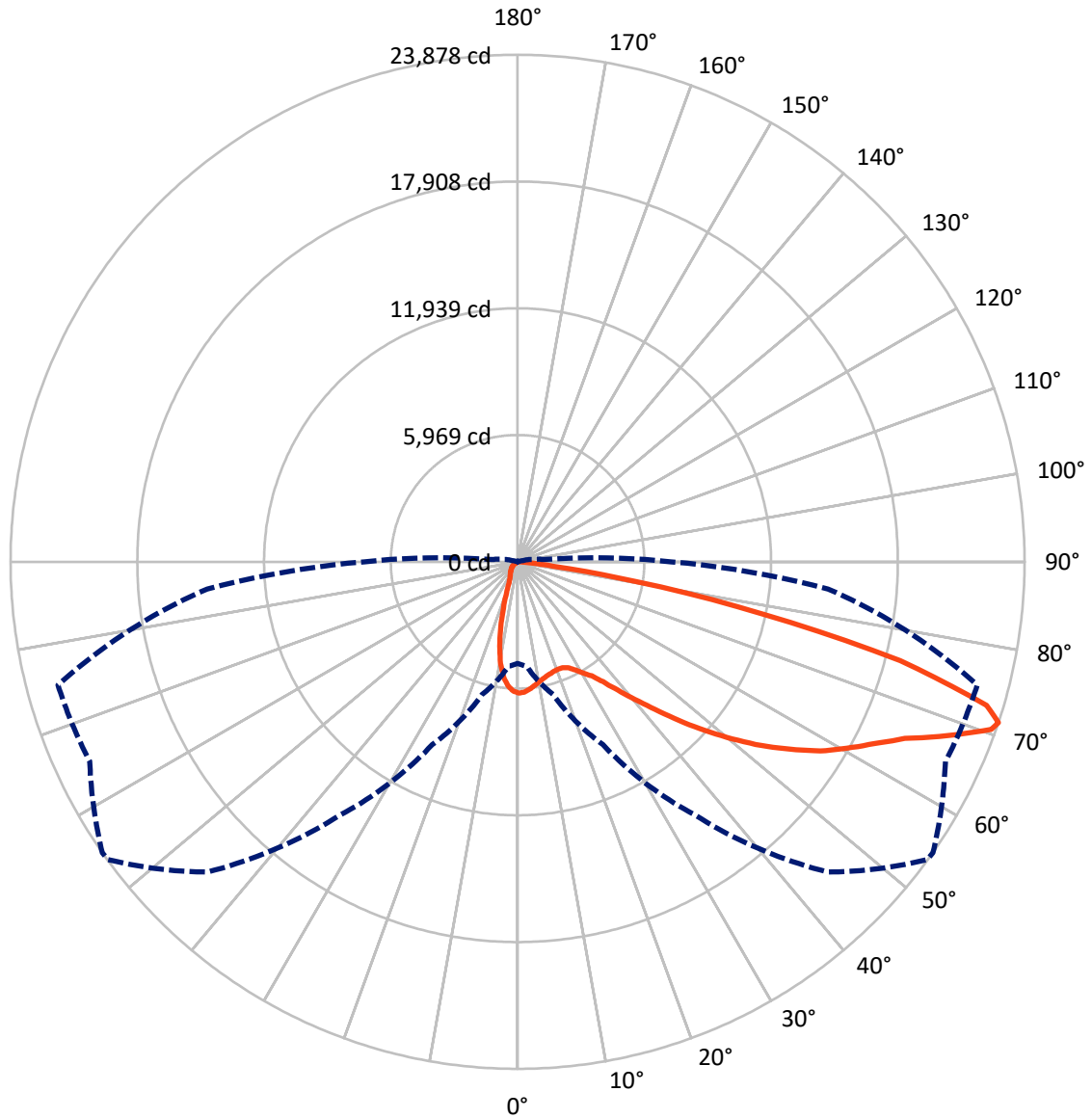
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2537.5	0.0	2537.5
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	29512.5	0.0	29512.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	32050.0	0.0	32050.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.0	1.6
10°-20°	1189.8	3.7
20°-30°	1912.0	6.0
30°-40°	3248.6	10.1
40°-50°	5042.2	15.7
50°-60°	6779.1	21.2
60°-70°	8293.1	25.9
70°-80°	4848.8	15.1
80°-90°	209.6	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°	32050.0	100.0
0°-180°	32050.0	100.0

**Coefficient of Utilization**

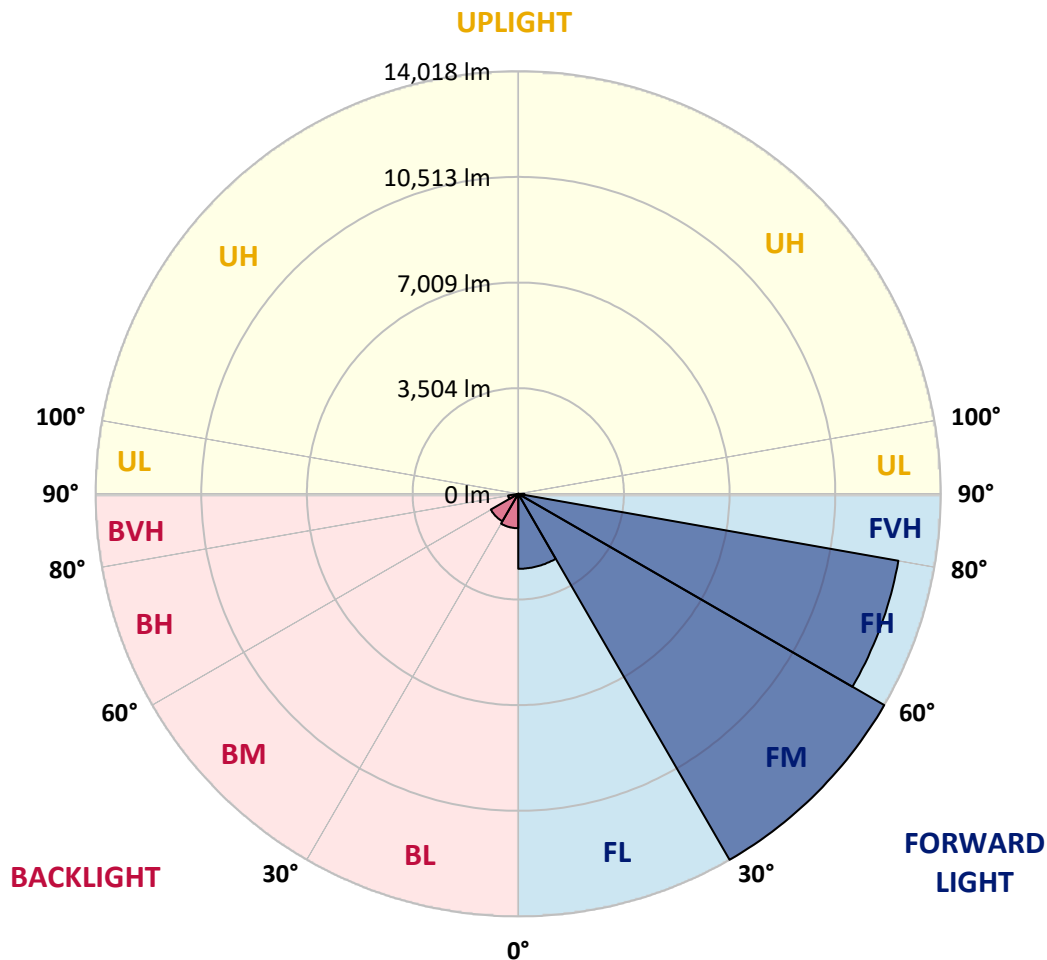


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.6	7.8			
FM (30°-60°)	14017.7	43.7			
FH (60°-80°)	12801.8	39.9			G5
FVH (80°-90°)	206.3	0.6			G2/225
BL (0°-30°)	1142.1	3.6	B3/2500		
BM (30°-60°)	1052.1	3.3	B2/2500		
BH (60°-80°)	340.0	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°	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0
2.5°	5999.6	6006.8	6032.7	6044.2	6071.6	6117.6	6140.7	6142.1	6179.5	6193.9	6205.4
5°	5575.1	5618.3	5661.4	5707.5	5791.0	5901.8	6011.1	6021.2	6142.1	6231.3	6278.8
7.5°	5209.6	5248.4	5300.2	5373.6	5491.6	5665.8	5848.5	5870.1	6098.9	6301.8	6408.3
10°	4834.0	4865.6	4940.4	5048.4	5211.0	5444.1	5690.2	5726.2	6060.1	6396.8	6583.9
12.5°	4432.4	4451.2	4541.8	4697.2	4936.1	5232.6	5556.4	5603.9	6035.6	6506.2	6791.1
15°	4127.4	4136.0	4222.3	4383.5	4656.9	5042.6	5452.8	5510.3	6041.4	6637.2	7017.1
17.5°	4049.6	4054.0	4100.0	4210.8	4452.6	4872.8	5370.7	5441.3	6058.6	6765.2	7244.5
20°	4364.8	4334.6	4287.1	4269.8	4373.4	4770.6	5321.8	5401.0	6081.7	6878.9	7448.8
22.5°	5229.7	5140.5	4943.3	4680.0	4520.2	4777.8	5334.8	5413.9	6155.1	7018.5	7684.8
25°	6513.4	6389.6	6054.3	5536.2	5038.3	4985.1	5442.7	5523.3	6297.5	7185.5	7910.8
27.5°	7974.1	7851.8	7441.6	6701.9	5852.8	5395.2	5690.2	5765.1	6509.1	7333.7	8083.5
30°	9372.9	9338.4	8854.8	8014.4	6877.5	6060.1	6009.7	6073.0	6665.9	7422.9	8220.2
32.5°	10558.7	10504.0	10115.5	9298.1	8050.4	6858.8	6385.3	6404.0	6783.9	7538.0	8398.6
35°	11658.2	11590.6	11249.5	10476.7	9253.4	7834.5	6963.8	6936.5	7041.5	7769.7	8657.7
37.5°	12618.1	12680.0	12301.5	11566.1	10332.8	8849.1	7743.8	7661.8	7444.5	8146.8	9033.3
40°	13421.1	13421.1	13223.9	12610.9	11498.5	9898.2	8626.0	8518.1	8050.4	8728.2	9509.6
42.5°	13710.4	13772.2	13845.6	13498.8	12541.8	10989.0	9608.9	9496.7	8903.7	9552.8	10111.2
45°	13727.6	13825.5	14201.1	14199.7	13484.4	12072.7	10717.0	10663.8	9997.5	10612.0	10856.6
47.5°	13484.4	13606.7	14225.6	14576.7	14231.3	13081.5	11928.7	11862.5	11282.6	11910.0	11636.6
50°	13108.8	13244.1	13963.6	14724.9	14739.3	13959.3	13205.2	13105.9	12697.2	13393.8	12442.5
52.5°	12436.7	12698.7	13729.1	14759.5	15073.2	14717.7	14419.8	14376.7	14280.2	14822.8	13084.3
55°	10999.1	11289.8	13140.5	14771.0	15382.6	15389.8	15558.2	15569.7	15764.0	16158.3	13562.1
57.5°	10319.8	10483.9	12112.9	14825.7	15841.7	16152.5	16718.1	16807.3	17108.1	17426.1	14107.5
60°	9892.4	10086.7	11606.4	14750.8	16562.7	17152.7	17793.1	17823.3	18145.7	18734.3	14845.8
62.5°	9551.3	9742.7	11286.9	14463.0	17372.9	18355.8	18843.6	18846.5	19088.3	20292.8	15684.8
65°	8709.5	8870.6	10640.7	14139.2	17908.2	19545.9	20064.0	20045.3	20242.5	21936.3	16659.1
67.5°	7492.0	7615.7	9321.1	12911.7	17706.8	20628.1	21906.1	21844.2	21605.3	23356.7	17041.9
70°	5792.4	5837.0	7346.6	10760.2	15818.6	21044.0	23686.2	23654.6	22441.4	23102.0	15638.8
71°	4787.9	4934.7	6474.5	9496.7	14553.7	20659.8	23858.9	23877.6	22231.3	22408.3	14673.1
72.5°	2780.4	2905.6	4692.9	7293.4	12356.2	19056.6	22963.8	23099.1	21249.8	20382.0	12533.2
75°	595.8	637.5	1739.9	3530.1	6796.9	13356.3	18125.5	18607.6	17319.6	13865.8	7553.9
77.5°	414.5	447.6	745.5	1601.7	2246.4	6599.7	11259.6	11803.5	10347.2	5211.0	2417.7
80°	328.1	365.5	581.4	791.5	607.3	2128.4	5274.3	5606.8	3451.0	1162.8	407.3
82.5°	182.8	217.3	453.3	427.4	233.1	404.4	1476.5	1669.4	690.8	234.6	96.4
85°	53.2	64.8	292.1	310.8	99.3	77.7	251.8	312.3	131.0	61.9	43.2
87.5°	0.0	0.0	141.0	119.4	28.8	11.5	23.0	25.9	25.9	25.9	28.8
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°	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0	6181.0
2.5°	6205.4	6215.5	6179.5	6132.0	6081.7	6019.8	5955.0	5904.6	5903.2	5878.7	5854.3
5°	6281.7	6275.9	6176.6	6025.5	5847.1	5661.4	5484.4	5284.4	5218.2	5136.2	5108.8
7.5°	6422.7	6382.4	6172.3	5841.3	5449.9	5061.3	4659.8	4255.4	4082.7	3927.3	3900.0
10°	6599.7	6523.5	6145.0	5565.0	4846.9	4130.2	3524.4	2974.6	2732.9	2547.2	2538.6
12.5°	6783.9	6667.4	6068.7	5147.7	4056.8	3049.5	2351.5	1810.4	1608.9	1479.4	1490.9
15°	6976.8	6802.7	5904.6	4585.0	3157.4	2069.4	1444.9	1126.8	1046.2	1013.1	1021.8
17.5°	7173.9	6896.2	5675.8	3907.2	2269.5	1335.5	1000.2	911.0	911.0	918.1	921.0
20°	7345.2	6946.6	5339.1	3147.3	1538.4	972.8	875.0	862.0	869.2	880.7	882.2
22.5°	7515.0	6949.4	4900.2	2377.4	1076.5	852.0	833.2	827.5	831.8	844.8	846.2
25°	7653.2	6914.9	4350.4	1690.9	859.1	803.0	794.4	791.5	794.4	810.2	810.2
27.5°	7709.3	6789.7	3679.8	1188.7	769.9	748.3	745.5	748.3	752.7	764.2	765.6
30°	7715.0	6571.0	2948.7	860.6	698.0	674.9	680.7	690.8	686.5	683.6	686.5
32.5°	7729.4	6317.7	2236.4	708.0	637.5	601.5	594.4	594.4	577.1	567.0	561.3
35°	7776.9	6019.8	1621.9	636.1	575.6	533.9	506.6	474.9	441.8	424.5	420.2
37.5°	7851.8	5707.5	1161.4	588.6	521.0	473.5	421.7	365.5	318.0	305.1	305.1
40°	7988.5	5385.1	859.1	551.2	477.8	418.8	341.1	267.7	224.5	217.3	217.3
42.5°	8204.3	5045.5	685.0	518.1	440.4	362.7	260.5	194.3	162.6	158.3	156.9
45°	8428.8	4671.3	598.7	486.4	400.1	297.9	192.8	143.9	125.2	120.9	120.9
47.5°	8653.3	4272.7	556.9	456.2	361.2	231.7	143.9	113.7	105.1	105.1	106.5
50°	8843.3	3856.8	526.7	423.1	310.8	175.6	113.7	96.4	93.5	99.3	100.7
52.5°	8890.8	3448.1	489.3	381.4	249.0	133.8	93.5	84.9	84.9	84.9	84.9
55°	8862.0	3131.5	440.4	329.6	184.2	106.5	80.6	74.8	73.4	73.4	73.4
57.5°	8959.9	2944.4	352.6	256.2	132.4	86.3	70.5	66.2	63.3	61.9	61.9
60°	9157.0	2822.1	251.8	184.2	99.3	72.0	60.4	56.1	51.8	48.9	48.9
62.5°	9418.9	2715.6	187.1	136.7	76.3	57.6	50.4	46.1	40.3	37.4	37.4
65°	9620.4	2525.6	142.5	102.2	57.6	46.1	38.9	37.4	28.8	25.9	24.5
67.5°	9312.5	2108.3	115.1	74.8	43.2	36.0	30.2	28.8	17.3	14.4	14.4
70°	7987.0	1467.9	92.1	54.7	31.7	28.8	24.5	18.7	13.0	11.5	11.5
71°	7243.0	1226.1	83.5	46.1	27.3	27.3	23.0	15.8	11.5	10.1	10.1
72.5°	6016.9	870.7	70.5	36.0	24.5	28.8	24.5	14.4	11.5	10.1	8.6
75°	3492.7	364.1	48.9	24.5	18.7	34.5	31.7	13.0	8.6	7.2	7.2
77.5°	1050.5	133.8	27.3	15.8	14.4	30.2	36.0	11.5	4.3	1.4	1.4
80°	191.4	57.6	17.3	10.1	10.1	18.7	27.3	5.8	0.0	0.0	0.0
82.5°	67.6	28.8	10.1	5.8	4.3	8.6	13.0	0.0	0.0	0.0	0.0
85°	38.9	20.1	5.8	2.9	0.0	1.4	2.9	0.0	0.0	0.0	0.0
87.5°	25.9	5.8	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)