

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: P322050

Luminaire Tested: **GLEON-SA6C-827-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22123 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

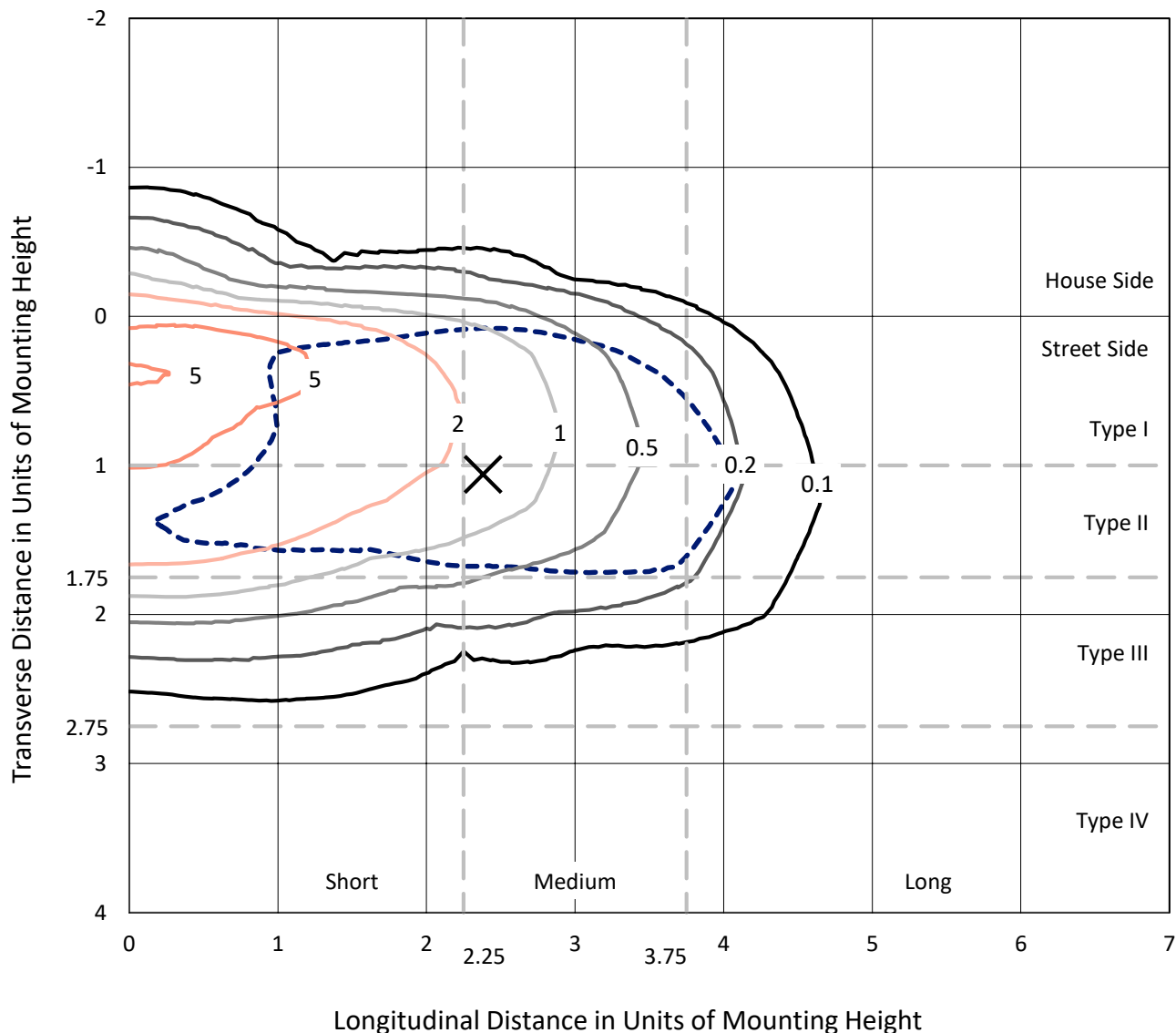
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

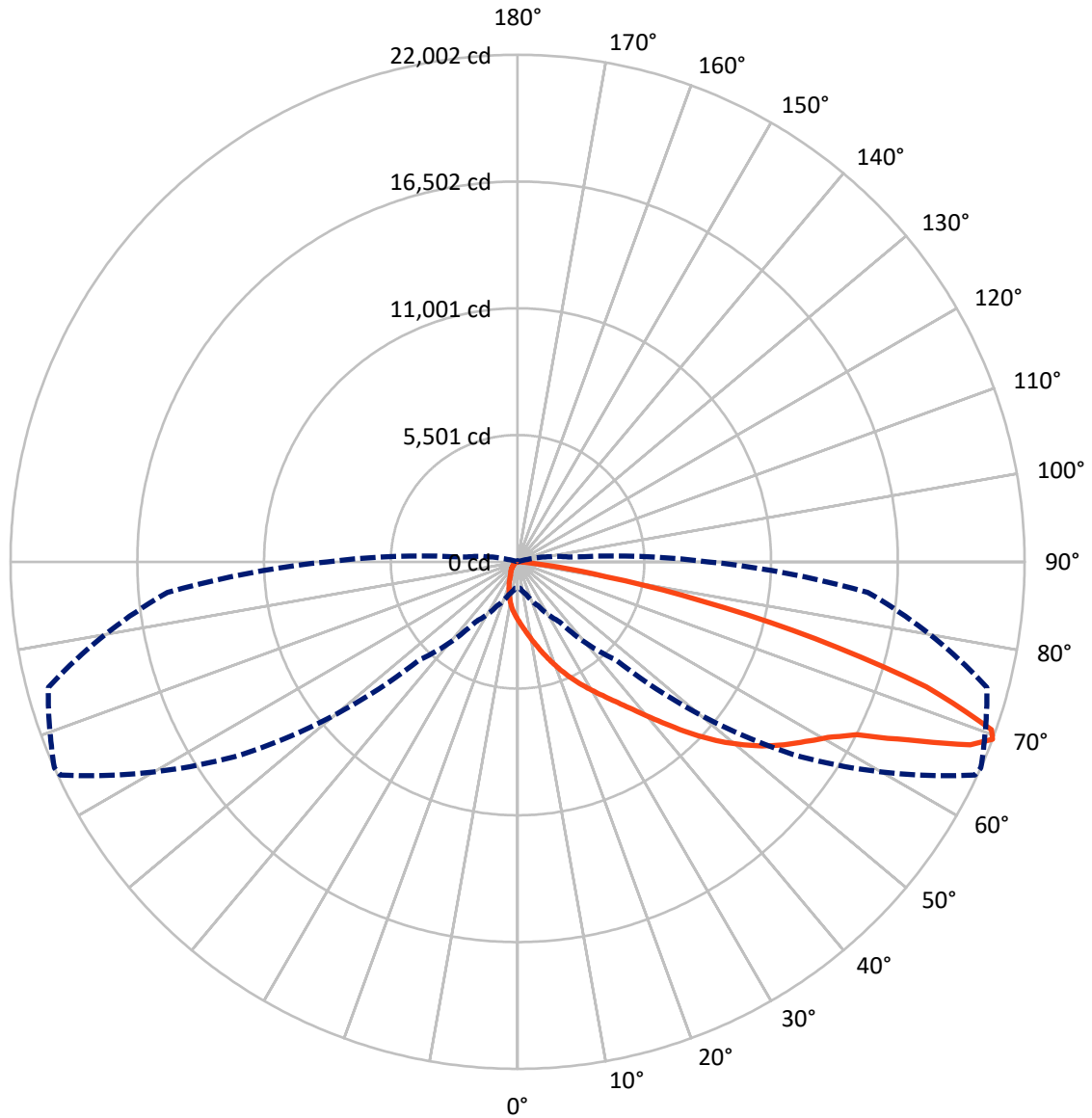
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1327.1	0.0	1327.1
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	20795.9	0.0	20795.9
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	22123.0	0.0	22123.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.4	1.1
10°-20°	724.3	3.3
20°-30°	1261.3	5.7
30°-40°	2212.9	10.0
40°-50°	3704.1	16.7
50°-60°	5444.6	24.6
60°-70°	5590.2	25.3
70°-80°	2759.8	12.5
80°-90°	182.5	0.8
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°	22123.0	100.0
0°-180°	22123.0	100.0

**Coefficient of Utilization**

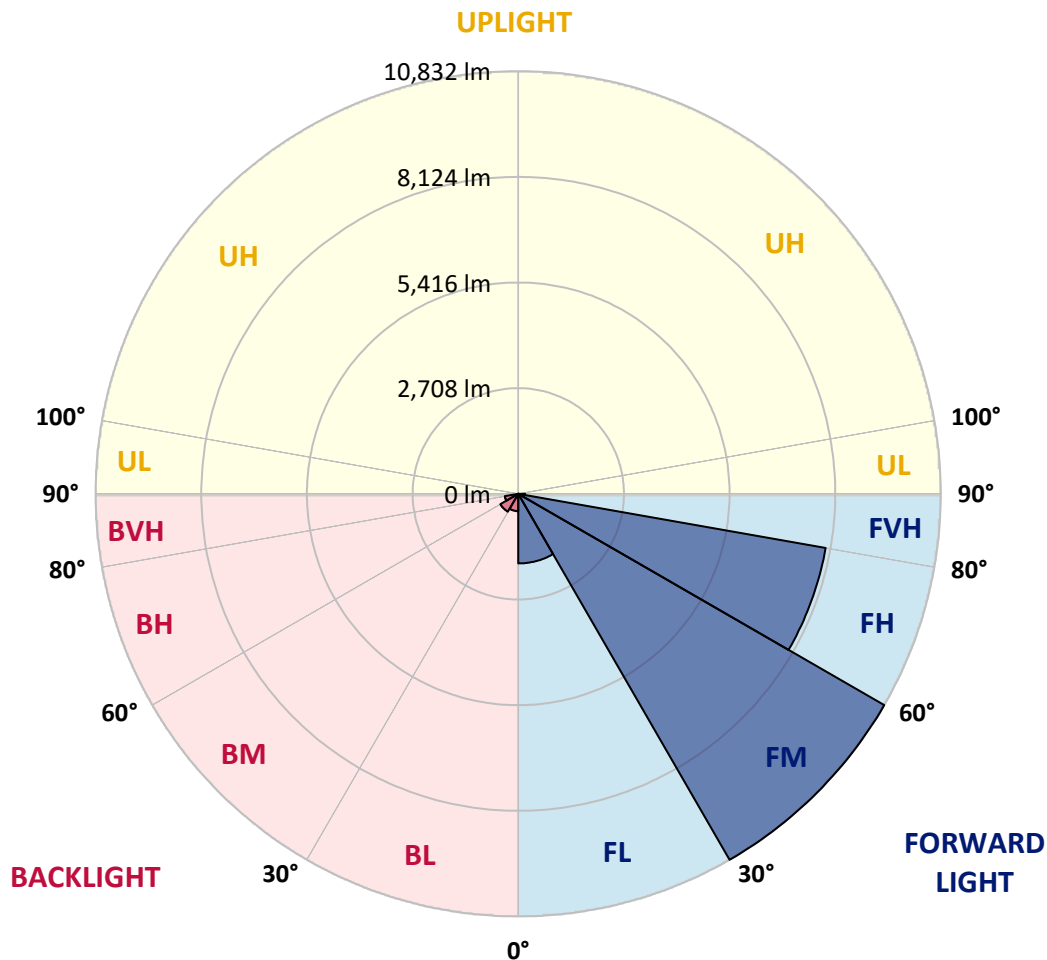


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.1	8.1			
FM (30°-60°)	10832.5	49.0			
FH (60°-80°)	8000.3	36.2			G4/12000
FVH (80°-90°)	178.1	0.8			G2/225
BL (0°-30°)	443.8	2.0	B1/500		
BM (30°-60°)	529.1	2.4	B1/1000		
BH (60°-80°)	349.7	1.6	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7
2.5°	2963.2	2950.6	2945.3	2922.2	2882.3	2851.8	2793.0	2724.7	2712.1	2645.9	2565.0
5°	3347.8	3337.3	3329.9	3297.3	3256.4	3179.7	3072.5	2945.3	2921.2	2795.1	2633.3
7.5°	3615.7	3634.6	3634.6	3613.6	3562.1	3504.4	3373.0	3199.6	3169.2	2975.8	2724.7
10°	3772.3	3795.4	3813.3	3831.1	3823.8	3800.7	3676.7	3481.2	3444.5	3188.1	2830.8
12.5°	3787.0	3810.1	3860.6	3935.2	4007.7	4060.2	3982.5	3793.3	3751.3	3433.9	2956.9
15°	3705.0	3729.2	3807.0	3952.0	4127.5	4280.9	4306.1	4139.0	4095.9	3727.1	3114.5
17.5°	3562.1	3577.9	3689.3	3890.0	4165.3	4446.9	4599.3	4509.9	4470.0	4062.3	3290.0
20°	3456.0	3467.6	3565.3	3780.7	4142.2	4550.9	4876.7	4904.0	4862.0	4421.7	3480.2
22.5°	3637.8	3658.8	3662.0	3763.9	4079.1	4602.4	5120.5	5291.7	5260.2	4803.1	3667.2
25°	4134.8	4159.0	4079.1	4016.1	4132.7	4625.5	5329.6	5688.9	5663.7	5214.0	3855.3
27.5°	4791.6	4816.8	4713.8	4525.7	4413.3	4712.7	5515.5	6092.4	6091.4	5649.0	4058.1
30°	5436.7	5462.0	5356.9	5168.8	4910.3	4959.7	5676.3	6514.8	6521.1	6097.7	4273.5
32.5°	6113.4	6145.0	6036.7	5795.1	5525.0	5386.3	5902.2	6939.3	6975.1	6617.8	4516.3
35°	6882.6	6886.8	6734.4	6481.2	6170.2	5956.9	6264.7	7415.4	7500.5	7261.9	4824.1
37.5°	7637.1	7667.5	7542.5	7143.2	6857.4	6615.7	6803.8	8010.1	8130.9	8049.0	5226.6
40°	8196.1	8260.2	8242.3	7811.5	7540.4	7368.1	7473.1	8717.3	8870.7	8965.3	5734.1
42.5°	8547.0	8595.4	8677.3	8417.8	8171.9	8200.3	8263.3	9541.1	9730.2	10009.7	6317.3
45°	8949.5	8972.6	9040.9	8926.4	8760.4	9046.2	9101.9	10468.9	10667.5	11133.0	6964.6
47.5°	9441.3	9495.9	9514.8	9409.7	9334.1	9794.3	9909.9	11312.7	11591.2	12336.2	7649.7
50°	10067.5	10082.2	10114.8	10046.5	9970.8	10437.4	10634.9	12198.5	12451.7	13543.5	8325.3
52.5°	10680.1	10732.7	10846.1	10803.1	10772.6	10984.9	11281.2	12997.1	13279.8	14550.1	8999.9
55°	10856.7	10901.8	11293.8	11561.7	11809.7	11659.5	11899.0	13712.7	14018.5	15449.6	9649.3
57.5°	10151.6	10243.0	10921.8	11619.5	12648.2	12708.1	12748.1	14447.2	14721.4	16138.9	10325.0
60°	8369.5	8387.3	9501.2	10698.0	12509.5	13623.4	13988.0	15236.3	15466.4	16781.0	11134.1
62.5°	5323.3	5505.0	6727.1	8416.7	11042.6	13491.0	15487.4	16430.0	16514.1	17551.2	12294.1
65°	2535.5	2653.2	3533.8	5200.3	7998.5	11796.1	16522.5	18589.3	18627.2	19078.0	13844.0
67.5°	1403.8	1460.6	1879.8	2799.3	4676.0	8342.1	16104.3	21146.9	21182.7	20637.3	15203.7
69°	1098.1	1146.4	1476.3	2110.0	3170.2	5995.7	14573.3	21896.1	22002.3	21083.9	15252.1
70°	932.0	979.3	1271.4	1782.1	2549.2	4632.9	12971.9	21710.2	21822.6	21041.9	14891.7
72.5°	570.6	597.9	846.9	1254.6	1708.6	2330.6	7999.6	18360.3	18550.5	19301.8	12798.5
75°	384.6	399.3	529.6	865.8	1222.1	1200.0	4155.8	12941.4	13353.3	15014.6	9452.8
77.5°	275.3	289.0	355.2	560.1	856.4	792.3	1881.9	8042.7	8130.9	9005.2	5155.1
80°	156.6	169.2	251.1	333.1	581.1	528.5	748.2	3841.7	3885.8	3861.6	1721.2
82.5°	82.0	92.5	137.7	219.6	373.0	345.7	311.0	1286.2	1292.5	1074.9	377.2
85°	15.8	18.9	68.3	150.3	192.3	150.3	127.1	301.6	307.9	272.2	93.5
87.5°	0.0	1.1	27.3	33.6	37.8	38.9	41.0	58.8	63.0	85.1	25.2
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°	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7
2.5°	2529.2	2491.4	2418.9	2334.8	2269.7	2205.6	2155.1	2102.6	2083.7	2074.2	2073.2
5°	2554.4	2474.6	2321.2	2163.6	2034.3	1912.4	1825.2	1742.2	1703.3	1685.5	1678.1
7.5°	2596.5	2468.3	2221.3	1980.7	1794.7	1642.4	1521.5	1431.2	1386.0	1367.1	1359.7
10°	2645.9	2459.9	2104.7	1787.4	1549.9	1392.3	1272.5	1183.2	1133.8	1112.8	1102.3
12.5°	2703.7	2445.2	1970.2	1591.9	1340.8	1183.2	1038.2	927.8	871.1	846.9	835.4
15°	2775.1	2430.5	1829.4	1408.0	1156.9	964.6	805.9	731.3	719.8	715.6	716.6
17.5°	2845.5	2407.3	1676.0	1226.3	963.6	753.4	672.5	668.3	670.4	670.4	670.4
20°	2908.6	2354.8	1508.9	1070.7	779.7	635.7	618.9	611.6	606.3	602.1	596.8
22.5°	2957.9	2284.4	1348.2	916.3	636.8	582.1	555.9	532.7	513.8	501.2	494.9
25°	2991.6	2190.9	1201.0	768.1	572.7	529.6	482.3	443.4	414.0	396.1	388.8
27.5°	3016.8	2090.0	1069.7	643.1	528.5	468.6	406.7	360.4	329.9	314.2	307.9
30°	3034.7	1975.5	954.1	565.3	479.2	404.6	338.4	293.2	271.1	262.7	258.5
32.5°	3051.5	1848.3	844.8	528.5	432.9	345.7	283.7	249.0	235.4	224.9	221.7
35°	3093.5	1730.6	740.8	489.7	385.6	295.3	243.8	218.6	204.9	198.6	196.5
37.5°	3193.3	1643.4	641.0	449.7	338.4	255.3	213.3	195.4	182.8	176.5	174.4
40°	3354.1	1599.3	556.9	406.7	292.1	224.9	193.3	176.5	162.9	153.4	151.3
42.5°	3590.5	1605.6	498.1	363.6	255.3	200.7	174.4	154.5	139.8	131.3	129.2
45°	3877.4	1651.8	457.1	321.5	224.9	181.8	153.4	132.4	118.7	111.4	109.3
47.5°	4188.4	1726.4	423.5	283.7	200.7	163.9	132.4	110.3	98.8	92.5	91.4
50°	4516.3	1798.9	388.8	246.9	179.7	146.1	111.4	91.4	82.0	76.7	74.6
52.5°	4848.3	1883.0	357.3	213.3	161.8	125.0	92.5	74.6	67.2	63.0	60.9
55°	5205.6	1946.0	326.8	187.0	144.0	106.1	76.7	62.0	55.7	50.4	49.4
57.5°	5625.9	2043.8	295.3	161.8	122.9	88.3	63.0	49.4	44.1	38.9	37.8
60°	6193.3	2158.3	261.6	142.9	100.9	72.5	51.5	39.9	33.6	29.4	28.4
62.5°	6941.5	2285.4	219.6	125.0	82.0	58.8	41.0	31.5	24.2	18.9	18.9
65°	7890.3	2492.4	179.7	105.1	67.2	48.3	31.5	23.1	13.7	8.4	8.4
67.5°	8444.1	2528.2	145.0	86.2	54.6	41.0	26.3	15.8	4.2	1.1	0.0
69°	8266.5	2321.2	122.9	73.6	47.3	38.9	24.2	11.6	2.1	0.0	0.0
70°	7932.3	2122.6	108.2	65.1	43.1	36.8	23.1	8.4	2.1	0.0	0.0
72.5°	6554.8	1511.0	82.0	48.3	31.5	32.6	21.0	5.3	2.1	0.0	0.0
75°	4774.7	918.4	58.8	33.6	20.0	24.2	14.7	2.1	1.1	0.0	0.0
77.5°	2656.4	432.9	36.8	18.9	12.6	14.7	7.4	0.0	0.0	0.0	0.0
80°	862.7	117.7	16.8	10.5	7.4	8.4	3.2	0.0	0.0	0.0	0.0
82.5°	159.7	33.6	9.5	5.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	34.7	13.7	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	4.2	1.1	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)