

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: P323970

Luminaire Tested: **GLEON-SA6C-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
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-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25240 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

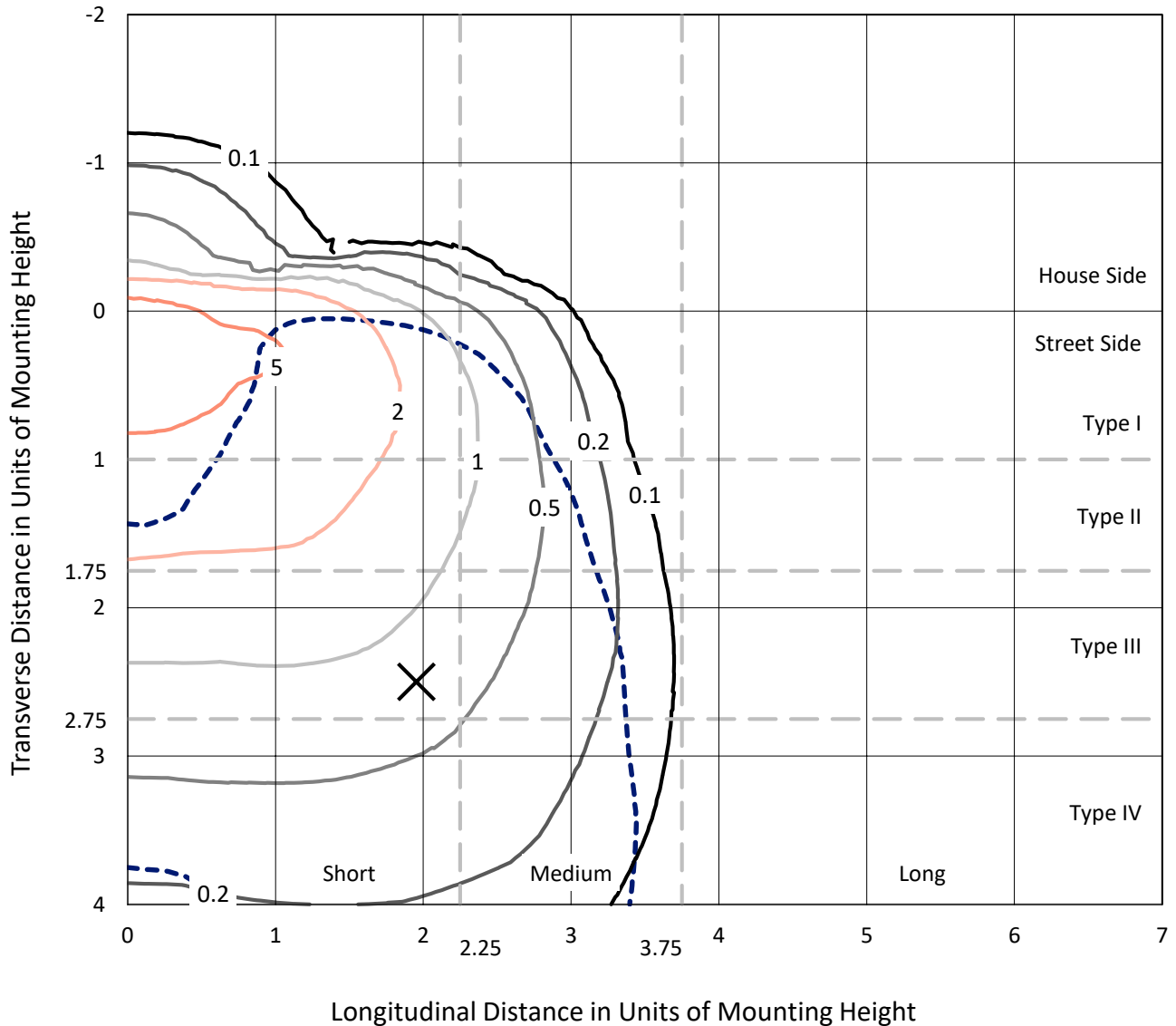
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

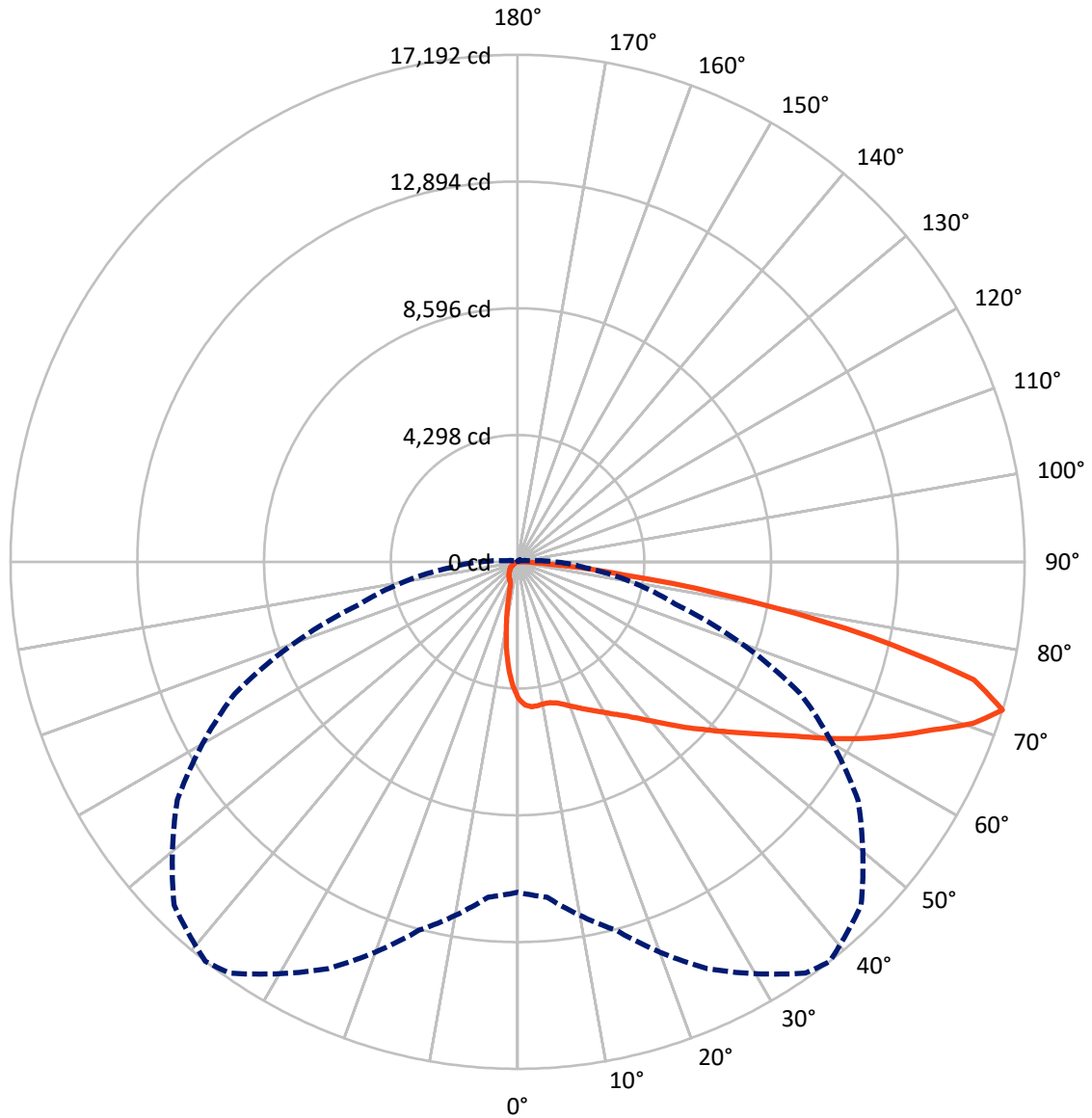
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2124.0	0.0	2124.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23116.0	0.0	23116.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25240.0	0.0	25240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.5	1.6
10°-20°	967.2	3.8
20°-30°	1538.3	6.1
30°-40°	2312.7	9.2
40°-50°	3528.2	14.0
50°-60°	4986.5	19.8
60°-70°	6254.8	24.8
70°-80°	4676.8	18.5
80°-90°	579.9	2.3
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°	25240.0	100.0
0°-180°	25240.0	100.0

**Coefficient of Utilization**

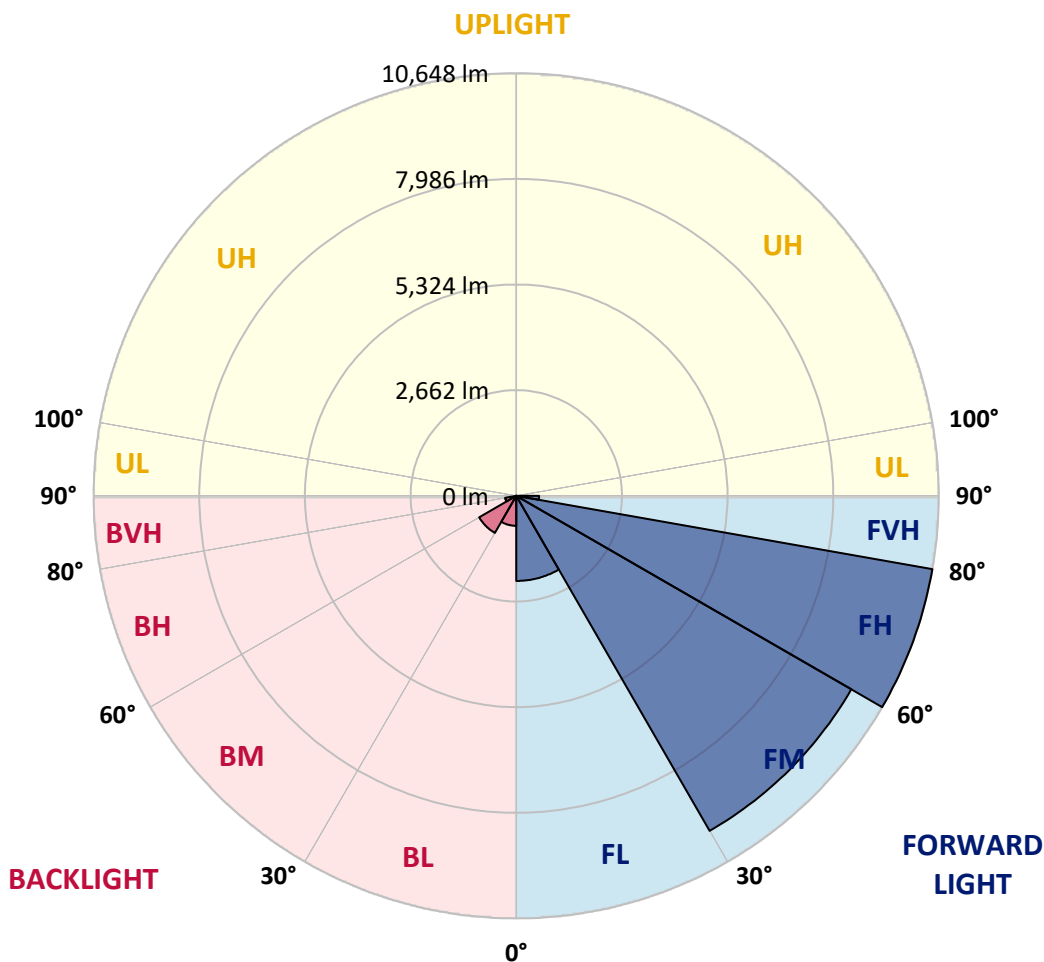


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.8	8.5			
FM (30°-60°)	9748.8	38.6			
FH (60°-80°)	10647.9	42.2			G4/12000
FVH (80°-90°)	574.5	2.3			G4/750
BL (0°-30°)	756.3	3.0	B2/1000		
BM (30°-60°)	1078.6	4.3	B2/2500		
BH (60°-80°)	283.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6
2.5°	4926.7	4927.7	4916.2	4897.3	4873.2	4860.6	4839.7	4806.1	4770.5	4706.5	4637.4
5°	5027.3	5027.3	5012.6	4987.5	4948.7	4937.2	4897.3	4843.9	4770.5	4666.7	4550.4
7.5°	5016.8	5018.9	4999.0	4972.8	4934.0	4923.5	4875.3	4815.6	4724.4	4598.6	4449.7
10°	4962.3	4967.6	4951.8	4939.2	4903.6	4892.1	4847.0	4787.3	4696.1	4561.9	4391.0
12.5°	4906.8	4912.0	4917.2	4928.8	4906.8	4902.6	4866.9	4816.6	4729.6	4590.2	4397.3
15°	4871.1	4881.6	4919.3	4964.4	4969.6	4965.5	4942.4	4895.2	4807.2	4662.5	4442.4
17.5°	4871.1	4887.9	4966.5	5052.5	5082.9	5086.0	5066.1	5000.0	4895.2	4740.1	4484.3
20°	4912.0	4935.1	5057.7	5179.3	5229.6	5229.6	5190.8	5098.6	4975.9	4810.3	4512.6
22.5°	5016.8	5047.2	5201.3	5341.8	5395.2	5383.7	5331.3	5197.1	5059.8	4890.0	4548.3
25°	5223.3	5246.4	5406.8	5548.3	5580.8	5554.6	5488.5	5316.6	5166.7	4998.0	4613.3
27.5°	5489.6	5492.7	5658.3	5777.8	5757.9	5740.1	5657.3	5466.5	5320.8	5152.0	4725.4
30°	5782.0	5782.0	5927.7	6018.9	5958.1	5943.5	5860.6	5647.9	5517.9	5361.7	4884.7
32.5°	6065.0	6077.6	6196.1	6253.7	6185.6	6170.9	6090.2	5877.4	5779.9	5681.4	5133.2
35°	6338.6	6348.1	6460.2	6491.7	6426.7	6430.9	6373.2	6192.9	6156.2	6143.7	5507.4
37.5°	6603.8	6605.9	6720.2	6740.1	6707.6	6743.2	6748.5	6589.2	6657.3	6759.0	6034.6
40°	6846.0	6848.1	6961.3	7012.6	7068.2	7114.3	7155.2	7070.3	7295.7	7531.5	6662.5
42.5°	7039.9	7061.9	7205.5	7303.0	7449.8	7537.8	7648.9	7644.7	8055.6	8409.9	7421.5
45°	7210.8	7248.5	7448.7	7619.6	7871.1	8011.6	8185.6	8321.9	8911.0	9387.9	8189.8
47.5°	7436.1	7471.8	7700.3	7980.2	8315.6	8500.1	8788.3	9082.9	9851.2	10348.1	8940.3
50°	7753.7	7738.0	7963.4	8364.9	8795.7	9037.8	9448.7	9890.0	10784.2	11184.6	9381.6
52.5°	8092.3	8086.0	8252.7	8783.1	9361.7	9644.7	10187.7	10724.4	11676.2	11761.1	9583.9
55°	8511.6	8466.5	8607.0	9260.0	10033.6	10337.6	10977.0	11550.4	12386.9	12086.1	9685.6
57.5°	8950.8	8876.4	9010.6	9791.5	10791.5	11151.0	11851.3	12355.5	12859.7	12308.3	9684.6
60°	9404.7	9316.6	9476.0	10456.1	11732.8	12149.0	12798.9	12899.5	13301.0	12420.5	9613.3
62.5°	9784.2	9731.7	9968.6	11166.8	12784.2	13193.0	13514.8	13394.3	13673.1	12507.5	9446.6
65°	10185.6	10188.8	10571.4	11995.9	13901.6	14177.3	14204.5	14035.8	13984.4	12489.6	8882.7
67.5°	10728.6	10778.9	11417.3	13121.7	14988.6	15201.4	15199.3	14730.7	14211.9	11781.0	7632.1
70°	11303.0	11421.5	12392.1	14410.0	16175.2	16391.1	16280.0	15173.1	13381.7	9526.3	5401.5
72.5°	11206.6	11412.1	12934.1	15222.4	17027.4	17192.0	16469.8	14086.1	10576.6	5536.7	2299.8
75°	8645.8	8883.7	11859.6	14417.3	16133.3	15985.5	14151.1	10961.3	5779.9	1545.1	517.8
77.5°	4567.1	4694.0	7834.5	10983.3	12579.8	12270.6	9968.6	6080.8	1762.1	382.6	232.7
80°	2392.1	2421.4	3414.1	6231.7	7764.2	7766.3	5907.8	2670.9	726.4	196.0	156.2
82.5°	1280.9	1306.1	1804.0	2879.5	4068.2	3687.7	2262.1	1469.6	422.4	111.1	149.9
85°	308.2	313.4	1023.1	1315.5	1599.6	1142.6	671.9	1233.8	114.3	65.0	121.6
87.5°	118.4	120.5	379.5	569.2	407.8	264.2	314.5	460.2	14.7	25.2	18.9
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°	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6	4641.6
2.5°	4595.4	4568.2	4501.1	4416.2	4340.7	4286.2	4204.4	4151.0	4115.3	4114.3	4100.7
5°	4479.1	4423.5	4278.9	4107.0	3950.8	3810.3	3644.7	3513.7	3416.2	3400.5	3366.9
7.5°	4354.3	4263.1	4040.9	3772.6	3510.5	3244.3	2935.0	2743.2	2578.6	2500.0	2491.6
10°	4277.8	4149.9	3834.4	3446.6	3035.7	2602.7	2198.1	1918.3	1715.9	1658.3	1615.3
12.5°	4262.1	4093.3	3675.1	3140.5	2553.5	1981.2	1533.6	1235.9	1074.4	1023.1	1009.4
15°	4277.8	4067.1	3540.9	2837.6	2065.0	1405.7	1029.4	856.4	795.6	780.9	779.9
17.5°	4287.3	4035.7	3388.9	2501.1	1591.2	1004.2	788.3	738.0	728.5	727.5	729.6
20°	4286.2	3987.5	3207.6	2125.8	1183.4	789.3	712.8	702.3	700.2	701.3	700.2
22.5°	4278.9	3930.9	3008.4	1739.0	894.1	705.5	680.3	674.0	673.0	673.0	673.0
25°	4292.5	3885.8	2789.3	1369.0	736.9	666.7	650.9	645.7	644.7	644.7	642.6
27.5°	4341.8	3860.6	2549.3	1053.5	665.6	632.1	619.5	618.5	615.3	614.3	616.4
30°	4421.4	3860.6	2286.2	819.7	622.6	596.4	587.0	584.9	583.9	582.8	583.9
32.5°	4561.9	3890.0	1999.0	681.3	581.8	556.6	550.3	553.5	550.3	550.3	550.3
35°	4815.6	3978.0	1698.1	594.3	538.8	517.8	511.5	515.7	513.6	513.6	512.6
37.5°	5185.6	4141.5	1395.2	541.9	501.1	479.0	470.7	476.9	474.8	474.8	473.8
40°	5636.3	4379.5	1106.9	502.1	464.4	441.3	434.0	437.1	431.9	431.9	434.0
42.5°	6192.9	4681.4	855.4	463.3	427.7	405.7	401.5	398.3	388.9	383.7	384.7
45°	6811.4	4995.9	666.7	425.6	393.1	375.3	369.0	360.6	344.9	334.4	335.4
47.5°	7363.8	5238.0	541.9	388.9	361.6	348.0	338.6	322.9	299.8	287.2	288.3
50°	7654.2	5274.7	461.2	352.2	332.3	318.7	305.0	280.9	253.7	240.0	239.0
52.5°	7728.6	5102.8	401.5	318.7	302.9	287.2	269.4	236.9	206.5	191.8	189.7
55°	7755.8	4840.7	348.0	287.2	271.5	253.7	230.6	193.9	165.6	150.9	149.9
57.5°	7665.7	4449.7	306.1	258.9	240.0	218.0	189.7	155.1	127.9	116.4	116.4
60°	7465.5	3920.4	273.6	228.5	207.5	182.4	153.0	120.5	95.4	86.0	86.0
62.5°	7066.1	3234.8	243.2	197.1	177.2	150.9	123.7	91.2	67.1	61.8	62.9
65°	6312.4	2453.9	212.8	168.8	150.9	124.7	96.4	65.0	45.1	45.1	47.2
67.5°	5147.8	1704.4	181.3	143.6	130.0	101.7	73.4	45.1	31.4	35.6	39.8
70°	3407.8	956.0	155.1	118.4	111.1	80.7	54.5	30.4	25.2	33.5	40.9
72.5°	1286.2	372.1	130.0	95.4	96.4	61.8	38.8	23.1	23.1	36.7	48.2
75°	358.5	182.4	93.3	70.2	75.5	45.1	28.3	19.9	22.0	41.9	56.6
77.5°	210.7	134.2	60.8	40.9	51.4	31.4	18.9	15.7	18.9	35.6	54.5
80°	169.8	71.3	35.6	21.0	28.3	17.8	12.6	9.4	5.2	13.6	28.3
82.5°	169.8	43.0	16.8	14.7	14.7	9.4	6.3	4.2	1.0	0.0	7.3
85°	114.3	17.8	10.5	9.4	7.3	3.1	2.1	1.0	0.0	0.0	0.0
87.5°	18.9	7.3	4.2	2.1	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)