

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: P454385

Luminaire Tested: **GALN-SA5C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23574 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

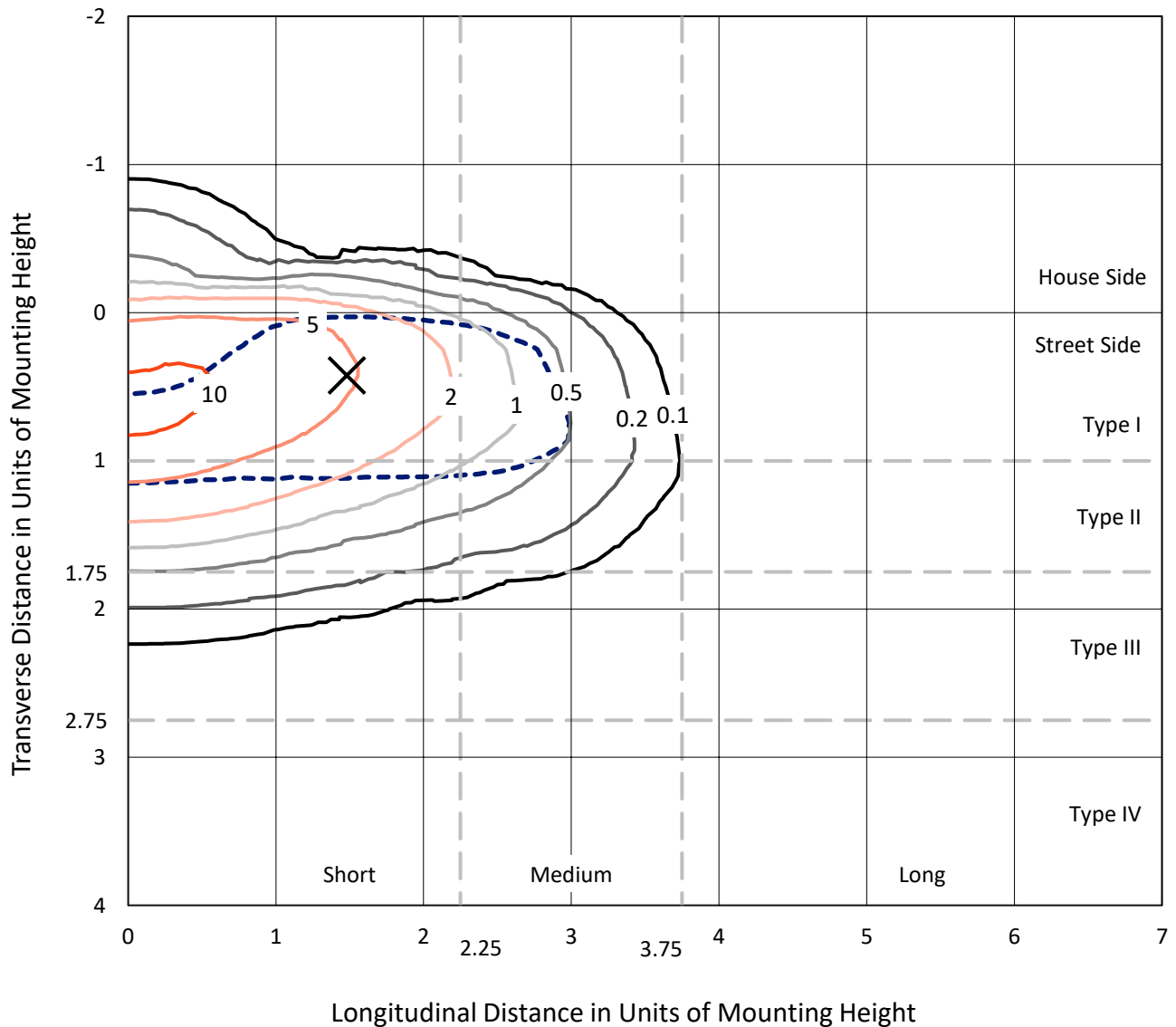
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

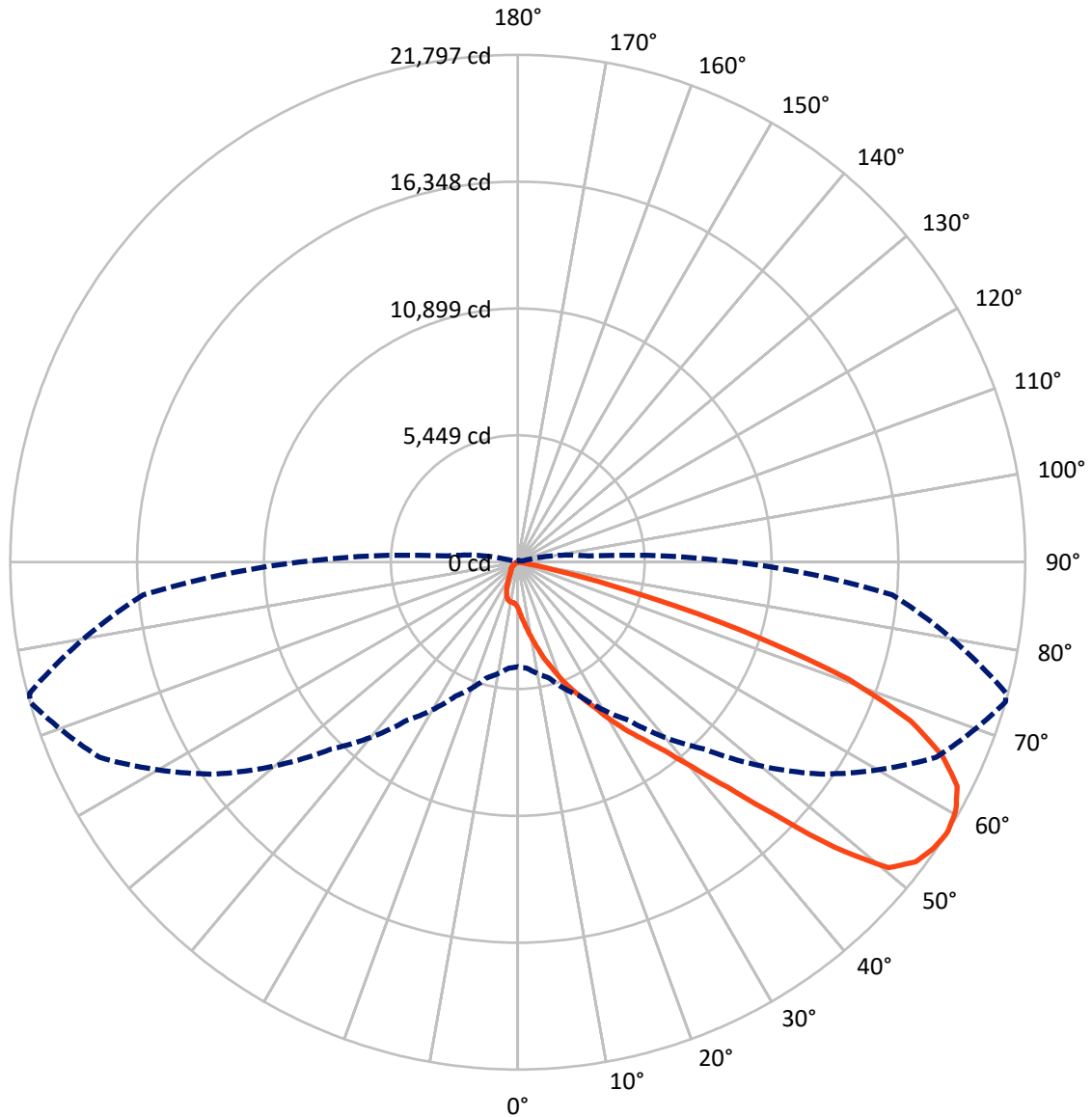
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1359.7	0.0	1359.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	22214.3	0.0	22214.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	23574.0	0.0	23574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	1.0
10°-20°	939.3	4.0
20°-30°	2009.8	8.5
30°-40°	3694.1	15.7
40°-50°	5663.1	24.0
50°-60°	5990.8	25.4
60°-70°	3912.1	16.6
70°-80°	1068.9	4.5
80°-90°	57.5	0.2
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°	23574.0	100.0
0°-180°	23574.0	100.0

Coefficient of Utilization



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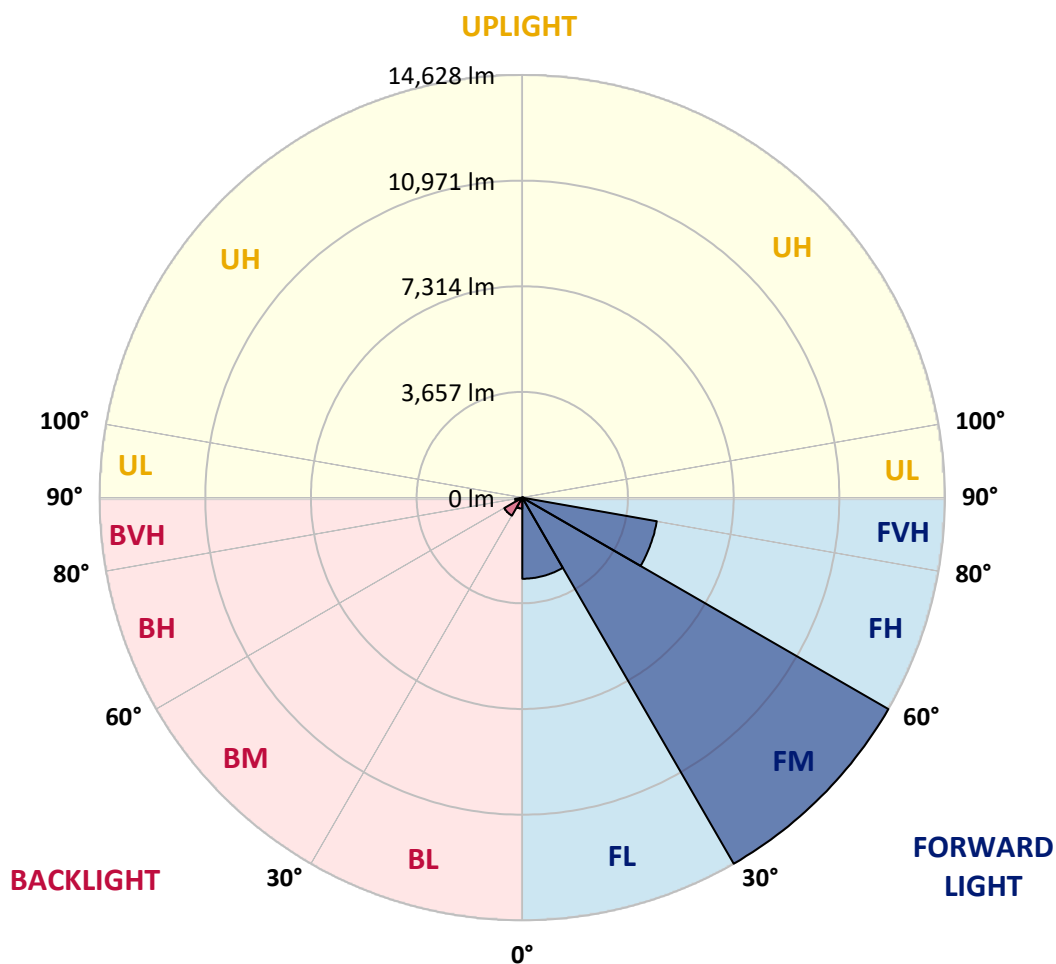
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2807.6	11.9			
FM (30°-60°)	14628.1	62.1			
FH (60°-80°)	4725.8	20.0			G2/5000
FVH (80°-90°)	52.8	0.2			G1/100
BL (0°-30°)	379.8	1.6	B1/500		
BM (30°-60°)	719.8	3.1	B1/1000		
BH (60°-80°)	255.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3
2.5°	2889.0	2863.0	2810.9	2793.0	2716.5	2597.7	2493.5	2353.5	2242.8	2231.5	2098.0
5°	3868.8	3810.2	3785.8	3668.6	3484.7	3312.2	3016.0	2791.4	2532.6	2513.0	2244.5
7.5°	4812.8	4731.5	4707.1	4596.4	4381.5	4109.7	3725.6	3317.1	2906.9	2869.5	2441.4
10°	5496.4	5507.8	5463.9	5390.6	5216.5	4939.8	4466.2	3907.9	3323.6	3276.4	2662.8
12.5°	5986.4	5984.7	5992.9	5991.2	5898.5	5688.5	5190.5	4547.5	3782.6	3689.8	2916.7
15°	6305.4	6310.2	6334.7	6419.3	6429.1	6298.9	5883.8	5159.5	4314.8	4199.2	3191.7
17.5°	6627.6	6661.8	6700.9	6780.6	6852.2	6800.2	6507.2	5797.5	4796.6	4710.3	3486.3
20°	7159.9	7207.1	7184.3	7233.1	7270.5	7275.4	7049.2	6386.7	5380.9	5236.0	3823.3
22.5°	8011.1	8009.5	7950.9	7863.0	7789.7	7786.5	7581.4	6992.2	5911.5	5771.5	4161.8
25°	9087.0	9091.8	8977.9	8727.2	8545.0	8322.0	8086.0	7522.8	6479.5	6307.0	4518.2
27.5°	10320.7	10289.8	10117.2	9772.2	9410.8	9030.0	8689.8	8139.7	7081.7	6938.5	4926.8
30°	11429.1	11417.7	11215.9	10794.3	10319.1	9936.6	9443.4	8912.8	7861.4	7685.6	5384.1
32.5°	12461.0	12477.3	12197.3	11761.1	11302.1	10861.0	10340.2	9651.7	8626.3	8377.3	5882.2
35°	13266.7	13282.9	12993.2	12630.3	12158.3	11792.0	11295.6	10439.5	9381.5	9171.6	6455.1
37.5°	13696.3	13717.5	13549.9	13276.4	12981.8	12797.9	12335.7	11453.5	10299.5	10172.6	7132.2
40°	13777.7	13802.1	13728.9	13655.7	13639.4	13771.2	13636.1	12648.2	11572.3	11373.7	8141.3
42.5°	13533.6	13566.1	13598.7	13761.4	14093.5	14576.9	15047.3	14269.3	13211.3	12944.4	9375.0
45°	12892.3	12889.0	13017.6	13439.2	14183.0	15214.9	16521.9	16298.9	15444.4	15127.0	11118.2
47.5°	11795.3	11779.0	12057.3	12657.9	13816.8	15332.1	17724.7	18763.1	18294.3	18001.4	12991.6
50°	10123.7	10203.5	10641.3	11479.5	12907.0	14977.3	18095.8	20379.3	20633.2	20322.3	14505.3
52.5°	8165.7	8162.5	8849.3	9987.0	11559.3	14196.0	17837.0	20672.3	21393.3	21155.7	15250.7
55°	6043.3	6085.6	6800.2	7947.6	9809.6	12770.2	16992.3	20371.2	21683.0	21515.4	15742.3
57°	4495.5	4570.3	5143.2	6357.4	8286.2	11359.1	15867.6	19832.4	21797.0	21705.8	16150.8
57.5°	4196.0	4199.2	4757.5	5861.0	7840.2	10817.1	15545.3	19607.8	21793.7	21743.3	16217.5
60°	2583.0	2664.4	3050.1	3961.6	5739.0	8442.4	13385.5	18317.1	21624.4	21697.7	16502.3
62.5°	1546.2	1580.4	1831.1	2387.7	3699.6	6162.1	10953.8	16665.1	21183.4	21406.3	16482.8
65°	994.5	1002.6	1116.5	1445.3	2312.8	4165.1	8440.8	14482.5	20042.4	20452.6	15838.3
67.5°	768.2	781.3	826.8	948.9	1341.2	2594.4	5970.1	12153.4	18196.7	18725.7	14275.8
70°	682.0	688.5	704.8	743.8	887.0	1464.8	3714.2	9493.9	15089.6	15239.3	11171.9
72.5°	556.6	574.5	625.0	638.0	703.1	914.7	2067.1	6372.1	10138.4	10175.8	6250.0
75°	431.3	434.6	509.4	546.9	592.5	629.9	922.9	3212.9	4869.8	4609.4	2408.9
77.5°	322.3	336.9	371.1	418.3	483.4	450.8	413.4	1210.9	1512.1	1484.4	699.9
80°	206.7	214.8	258.8	314.1	376.0	294.6	232.7	354.8	332.0	341.8	167.6
82.5°	104.2	105.8	166.0	255.5	239.3	148.1	146.5	144.9	123.7	122.1	78.1
85°	11.4	24.4	107.4	146.5	107.4	48.8	68.4	66.7	65.1	66.7	45.6
87.5°	1.6	1.6	17.9	21.2	14.6	16.3	19.5	21.2	26.0	24.4	19.5
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°	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3	1974.3
2.5°	2032.9	1967.8	1847.3	1731.8	1645.5	1590.2	1518.6	1492.5	1455.1	1450.2	1432.3
5°	2120.8	1997.1	1787.1	1621.1	1487.6	1386.7	1298.8	1225.6	1167.0	1154.0	1160.5
7.5°	2246.1	2062.2	1769.2	1543.0	1357.4	1184.9	1044.9	958.7	896.8	874.0	877.3
10°	2387.7	2148.4	1766.0	1460.0	1176.8	965.2	812.2	735.7	699.9	686.9	672.2
12.5°	2555.3	2247.7	1757.8	1331.4	978.2	769.9	660.8	615.2	581.1	571.3	571.3
15°	2744.2	2353.5	1718.8	1171.9	794.3	636.4	563.2	527.3	516.0	506.2	506.2
17.5°	2941.1	2457.7	1637.4	974.9	659.2	545.2	499.7	478.5	462.2	450.8	450.8
20°	3165.7	2560.2	1507.2	800.8	556.6	486.7	450.8	426.4	413.4	403.6	400.4
22.5°	3378.9	2643.2	1341.2	657.6	485.0	437.8	405.3	379.2	366.2	361.3	361.3
25°	3600.3	2693.7	1141.0	543.6	442.7	397.1	361.3	340.2	328.8	325.5	323.9
27.5°	3815.1	2723.0	965.2	475.3	403.6	359.7	325.5	309.2	297.9	294.6	296.2
30°	4075.5	2727.9	794.3	426.4	369.5	323.9	293.0	278.3	271.8	268.6	266.9
32.5°	4339.2	2721.4	667.3	397.1	336.9	293.0	266.9	255.5	250.7	245.8	245.8
35°	4635.4	2687.2	568.0	367.8	306.0	266.9	244.1	234.4	227.9	223.0	221.4
37.5°	5003.3	2669.3	511.1	335.3	278.3	242.5	221.4	211.6	206.7	200.2	198.6
40°	5582.7	2749.0	493.2	306.0	250.7	219.7	200.2	188.8	182.3	175.8	174.2
42.5°	6305.4	2889.0	463.9	276.7	226.2	198.6	179.0	166.0	154.6	146.5	143.2
45°	7241.2	3072.9	418.3	245.8	205.1	175.8	157.9	141.6	127.0	120.4	118.8
47.5°	8222.7	3250.3	377.6	221.4	182.3	156.3	136.7	118.8	105.8	100.9	99.3
50°	8824.9	3286.1	351.6	193.7	159.5	135.1	115.6	99.3	91.1	86.3	86.3
52.5°	9100.0	3229.2	315.8	169.3	138.3	118.8	99.3	86.3	81.4	78.1	76.5
55°	9292.0	3141.3	268.6	146.5	118.8	100.9	87.9	78.1	71.6	68.4	66.7
57°	9404.3	3022.5	232.7	128.6	102.5	87.9	78.1	70.0	63.5	57.0	57.0
57.5°	9409.2	2976.9	223.0	127.0	97.7	84.6	76.5	68.4	60.2	53.7	52.1
60°	9264.4	2664.4	179.0	107.4	78.1	71.6	63.5	53.7	42.3	35.8	34.2
62.5°	8798.9	2267.3	148.1	91.1	63.5	55.3	45.6	40.7	29.3	21.2	21.2
65°	8094.1	1839.2	127.0	73.2	52.1	40.7	30.9	29.3	17.9	9.8	8.1
67.5°	7075.2	1432.3	107.4	60.2	43.9	29.3	21.2	19.5	9.8	3.3	0.0
70°	5390.6	976.6	89.5	48.8	32.6	21.2	14.6	11.4	6.5	1.6	0.0
72.5°	3107.1	537.1	74.9	37.4	24.4	16.3	11.4	6.5	6.5	0.0	0.0
75°	1110.0	231.1	57.0	27.7	19.5	13.0	8.1	3.3	4.9	1.6	0.0
77.5°	353.2	123.7	37.4	21.2	16.3	9.8	6.5	3.3	3.3	1.6	0.0
80°	104.2	65.1	22.8	17.9	11.4	8.1	4.9	1.6	3.3	1.6	0.0
82.5°	57.0	32.6	17.9	13.0	11.4	6.5	4.9	1.6	1.6	1.6	0.0
85°	29.3	19.5	14.6	13.0	11.4	6.5	4.9	1.6	0.0	1.6	1.6
87.5°	16.3	14.6	14.6	13.0	11.4	8.1	4.9	1.6	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)