

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: P453515

Luminaire Tested: **GALN-SA4C-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453515
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-SA4C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 22267 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

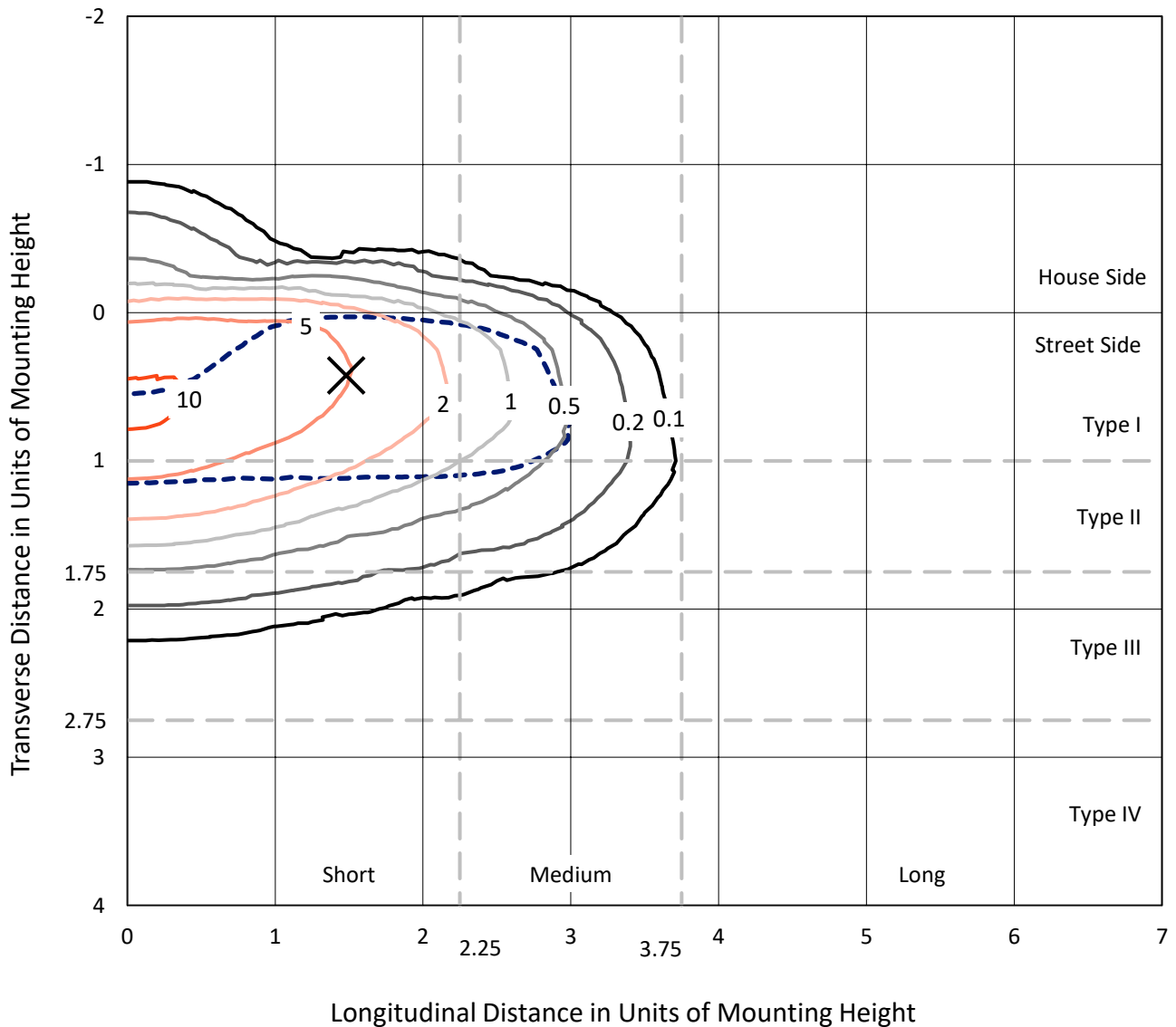
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

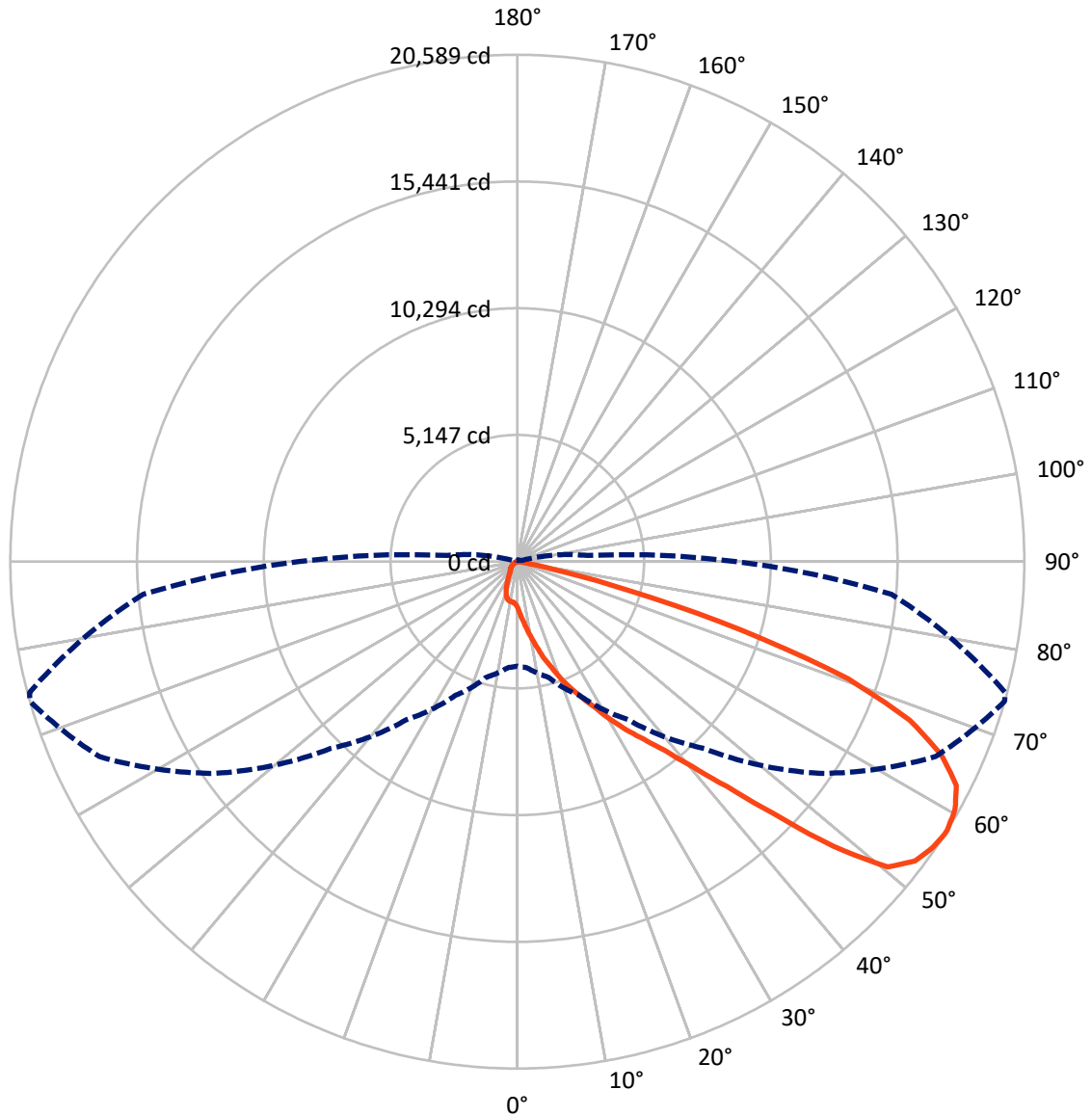
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	1284.3	0.0	1284.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20982.7	0.0	20982.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	22267.0	0.0	22267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	1.0
10°-20°	887.2	4.0
20°-30°	1898.4	8.5
30°-40°	3489.3	15.7
40°-50°	5349.1	24.0
50°-60°	5658.6	25.4
60°-70°	3695.2	16.6
70°-80°	1009.7	4.5
80°-90°	54.3	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°	22267.0	100.0
0°-180°	22267.0	100.0

Coefficient of Utilization

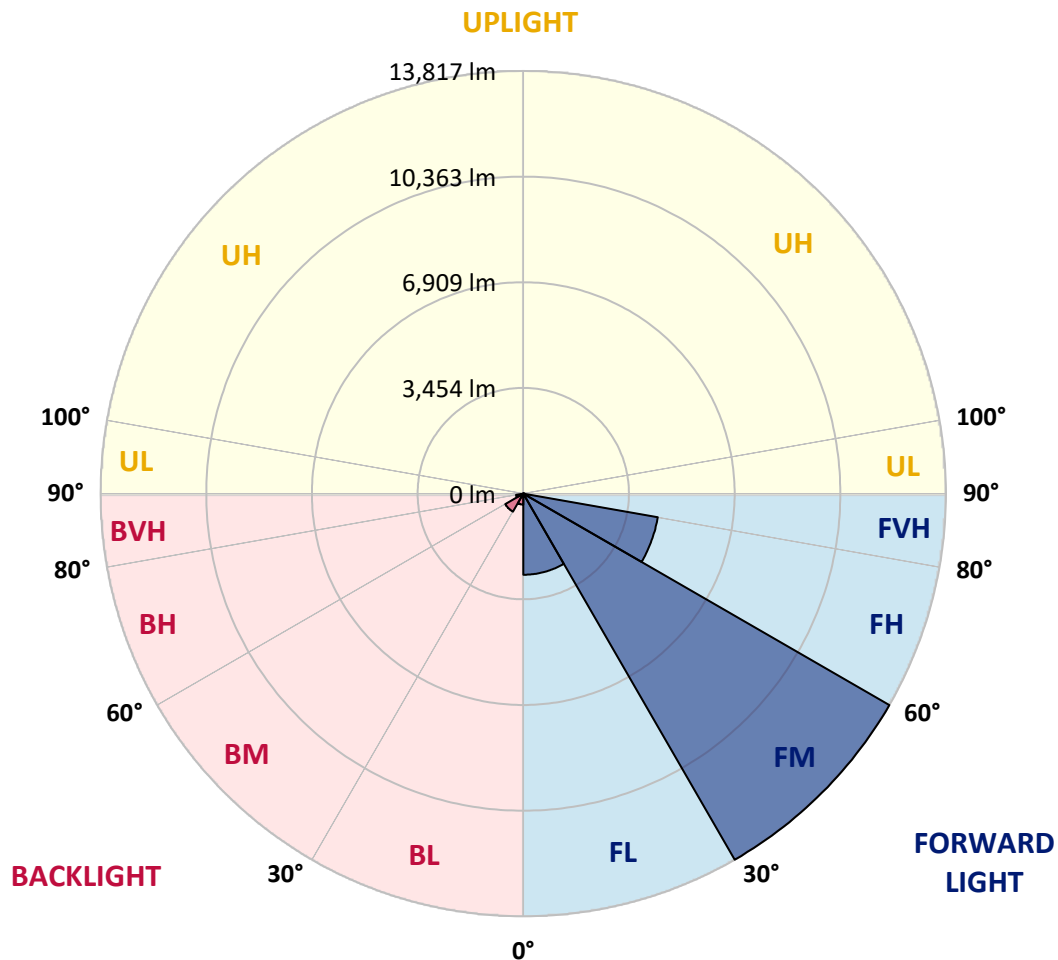


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2652.0	11.9			
FM (30°-60°)	13817.1	62.1			
FH (60°-80°)	4463.8	20.0			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	358.7	1.6	B1/500		
BM (30°-60°)	679.9	3.1	B1/1000		
BH (60°-80°)	241.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8
2.5°	2728.8	2704.2	2655.0	2638.1	2565.9	2453.6	2355.3	2223.0	2118.5	2107.7	1981.7
5°	3654.3	3599.0	3575.9	3465.2	3291.5	3128.6	2848.8	2636.6	2392.2	2373.7	2120.0
7.5°	4546.0	4469.1	4446.1	4341.5	4138.6	3881.9	3519.0	3133.2	2745.7	2710.4	2306.1
10°	5191.7	5202.5	5161.0	5091.8	4927.3	4665.9	4218.5	3691.2	3139.3	3094.7	2515.1
12.5°	5654.5	5652.9	5660.6	5659.1	5571.4	5373.1	4902.7	4295.4	3572.9	3485.2	2755.0
15°	5955.8	5960.4	5983.5	6063.4	6072.6	5949.6	5557.6	4873.5	4075.6	3966.4	3014.8
17.5°	6260.2	6292.5	6329.4	6404.7	6472.3	6423.1	6146.4	5476.1	4530.6	4449.2	3293.1
20°	6762.9	6807.5	6786.0	6832.1	6867.4	6872.1	6658.4	6032.6	5082.6	4945.7	3611.3
22.5°	7566.9	7565.4	7510.1	7427.0	7357.9	7354.8	7161.1	6604.6	5583.7	5451.5	3931.1
25°	8583.1	8587.8	8480.1	8243.4	8071.2	7860.6	7637.7	7105.7	6120.3	5957.3	4267.7
27.5°	9748.5	9719.3	9556.3	9230.4	8889.1	8529.3	8208.0	7688.4	6689.1	6553.8	4653.6
30°	10795.4	10784.7	10594.0	10195.9	9746.9	9385.7	8919.8	8418.6	7425.5	7259.5	5085.6
32.5°	11770.1	11785.5	11521.1	11109.1	10675.5	10258.9	9766.9	9116.6	8148.1	7912.9	5556.1
35°	12531.1	12546.5	12272.8	11930.0	11484.2	11138.3	10669.4	9860.7	8861.4	8663.1	6097.2
37.5°	12937.0	12957.0	12798.6	12540.3	12262.1	12088.4	11651.7	10818.5	9728.5	9608.6	6736.8
40°	13013.9	13036.9	12967.7	12898.6	12883.2	13007.7	12880.1	11946.9	10930.7	10743.2	7689.9
42.5°	12783.2	12814.0	12844.7	12998.5	13312.1	13768.7	14213.0	13478.1	12478.8	12226.7	8855.3
45°	12177.5	12174.4	12295.9	12694.1	13396.7	14371.4	15605.9	15395.2	14588.1	14288.3	10501.8
47.5°	11141.3	11126.0	11388.9	11956.1	13050.8	14482.0	16742.0	17722.8	17280.1	17003.3	12271.3
50°	9562.5	9637.8	10051.3	10843.1	12191.4	14146.9	17092.5	19249.4	19489.3	19195.6	13701.1
52.5°	7713.0	7709.9	8358.7	9433.3	10918.4	13409.0	16848.1	19526.2	20207.2	19982.8	14405.2
55°	5708.3	5748.2	6423.1	7507.0	9265.7	12062.2	16050.2	19241.7	20480.9	20322.5	14869.5
57°	4246.2	4316.9	4858.1	6005.0	7826.8	10729.3	14987.8	18732.9	20588.5	20502.4	15255.3
57.5°	3963.3	3966.4	4493.7	5536.1	7405.5	10217.4	14683.4	18520.7	20585.4	20537.8	15318.4
60°	2439.8	2516.7	2881.0	3742.0	5420.8	7974.3	12643.3	17301.6	20425.5	20494.7	15587.4
62.5°	1460.5	1492.8	1729.5	2255.3	3494.4	5820.5	10346.5	15741.2	20008.9	20219.5	15569.0
65°	939.3	947.0	1054.6	1365.2	2184.6	3934.1	7972.8	13679.5	18931.2	19318.6	14960.2
67.5°	725.6	737.9	781.0	896.3	1266.8	2450.6	5639.1	11479.6	17187.8	17687.5	13484.3
70°	644.2	650.3	665.7	702.6	837.9	1383.6	3508.3	8967.5	14253.0	14394.4	10552.5
72.5°	525.8	542.7	590.4	602.6	664.1	864.0	1952.5	6018.8	9576.3	9611.6	5903.5
75°	407.4	410.5	481.2	516.6	559.6	595.0	871.7	3034.8	4599.8	4353.8	2275.3
77.5°	304.4	318.2	350.5	395.1	456.6	425.9	390.5	1143.8	1428.2	1402.1	661.1
80°	195.2	202.9	244.4	296.7	355.1	278.3	219.8	335.1	313.6	322.8	158.3
82.5°	98.4	99.9	156.8	241.4	226.0	139.9	138.4	136.8	116.8	115.3	73.8
85°	10.8	23.1	101.5	138.4	101.5	46.1	64.6	63.0	61.5	63.0	43.0
87.5°	1.5	1.5	16.9	20.0	13.8	15.4	18.4	20.0	24.6	23.1	18.4
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°	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8
2.5°	1920.2	1858.7	1744.9	1635.8	1554.3	1502.0	1434.4	1409.8	1374.4	1369.8	1352.9
5°	2003.2	1886.4	1688.0	1531.2	1405.2	1309.8	1226.8	1157.6	1102.3	1090.0	1096.1
7.5°	2121.6	1947.9	1671.1	1457.4	1282.2	1119.2	987.0	905.5	847.1	825.6	828.6
10°	2255.3	2029.3	1668.0	1379.0	1111.5	911.7	767.1	694.9	661.1	648.8	634.9
12.5°	2413.7	2123.1	1660.4	1257.6	924.0	727.2	624.2	581.1	548.8	539.6	539.6
15°	2592.0	2223.0	1623.5	1106.9	750.2	601.1	531.9	498.1	487.3	478.1	478.1
17.5°	2778.0	2321.4	1546.6	920.9	622.6	515.0	472.0	452.0	436.6	425.9	425.9
20°	2990.2	2418.3	1423.6	756.4	525.8	459.7	425.9	402.8	390.5	381.3	378.2
22.5°	3191.6	2496.7	1266.8	621.1	458.1	413.6	382.8	358.2	345.9	341.3	341.3
25°	3400.7	2544.4	1077.7	513.5	418.2	375.1	341.3	321.3	310.5	307.5	305.9
27.5°	3603.6	2572.0	911.7	448.9	381.3	339.8	307.5	292.1	281.3	278.3	279.8
30°	3849.6	2576.6	750.2	402.8	349.0	305.9	276.7	262.9	256.7	253.7	252.1
32.5°	4098.6	2570.5	630.3	375.1	318.2	276.7	252.1	241.4	236.8	232.1	232.1
35°	4378.4	2538.2	536.5	347.4	289.0	252.1	230.6	221.4	215.2	210.6	209.1
37.5°	4725.9	2521.3	482.7	316.7	262.9	229.1	209.1	199.9	195.2	189.1	187.6
40°	5273.2	2596.6	465.8	289.0	236.8	207.5	189.1	178.3	172.2	166.0	164.5
42.5°	5955.8	2728.8	438.2	261.4	213.7	187.6	169.1	156.8	146.1	138.4	135.3
45°	6839.8	2902.6	395.1	232.1	193.7	166.0	149.1	133.8	119.9	113.8	112.2
47.5°	7766.8	3070.1	356.7	209.1	172.2	147.6	129.1	112.2	99.9	95.3	93.8
50°	8335.6	3104.0	332.1	182.9	150.7	127.6	109.2	93.8	86.1	81.5	81.5
52.5°	8595.4	3050.1	298.3	159.9	130.7	112.2	93.8	81.5	76.9	73.8	72.3
55°	8776.9	2967.1	253.7	138.4	112.2	95.3	83.0	73.8	67.6	64.6	63.0
57°	8882.9	2854.9	219.8	121.5	96.9	83.0	73.8	66.1	60.0	53.8	53.8
57.5°	8887.5	2811.9	210.6	119.9	92.2	79.9	72.3	64.6	56.9	50.7	49.2
60°	8750.7	2516.7	169.1	101.5	73.8	67.6	60.0	50.7	40.0	33.8	32.3
62.5°	8311.0	2141.6	139.9	86.1	60.0	52.3	43.0	38.4	27.7	20.0	20.0
65°	7645.4	1737.2	119.9	69.2	49.2	38.4	29.2	27.7	16.9	9.2	7.7
67.5°	6683.0	1352.9	101.5	56.9	41.5	27.7	20.0	18.4	9.2	3.1	0.0
70°	5091.8	922.4	84.6	46.1	30.7	20.0	13.8	10.8	6.1	1.5	0.0
72.5°	2934.8	507.3	70.7	35.4	23.1	15.4	10.8	6.1	6.1	0.0	0.0
75°	1048.5	218.3	53.8	26.1	18.4	12.3	7.7	3.1	4.6	1.5	0.0
77.5°	333.6	116.8	35.4	20.0	15.4	9.2	6.1	3.1	3.1	1.5	0.0
80°	98.4	61.5	21.5	16.9	10.8	7.7	4.6	1.5	3.1	1.5	0.0
82.5°	53.8	30.7	16.9	12.3	10.8	6.1	4.6	1.5	1.5	1.5	0.0
85°	27.7	18.4	13.8	12.3	10.8	6.1	4.6	1.5	0.0	1.5	1.5
87.5°	15.4	13.8	13.8	12.3	10.8	7.7	4.6	1.5	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)