

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: P652023

Luminaire Tested: **GALN-SA7A-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652023
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-SA7A-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA 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: 21447.2 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

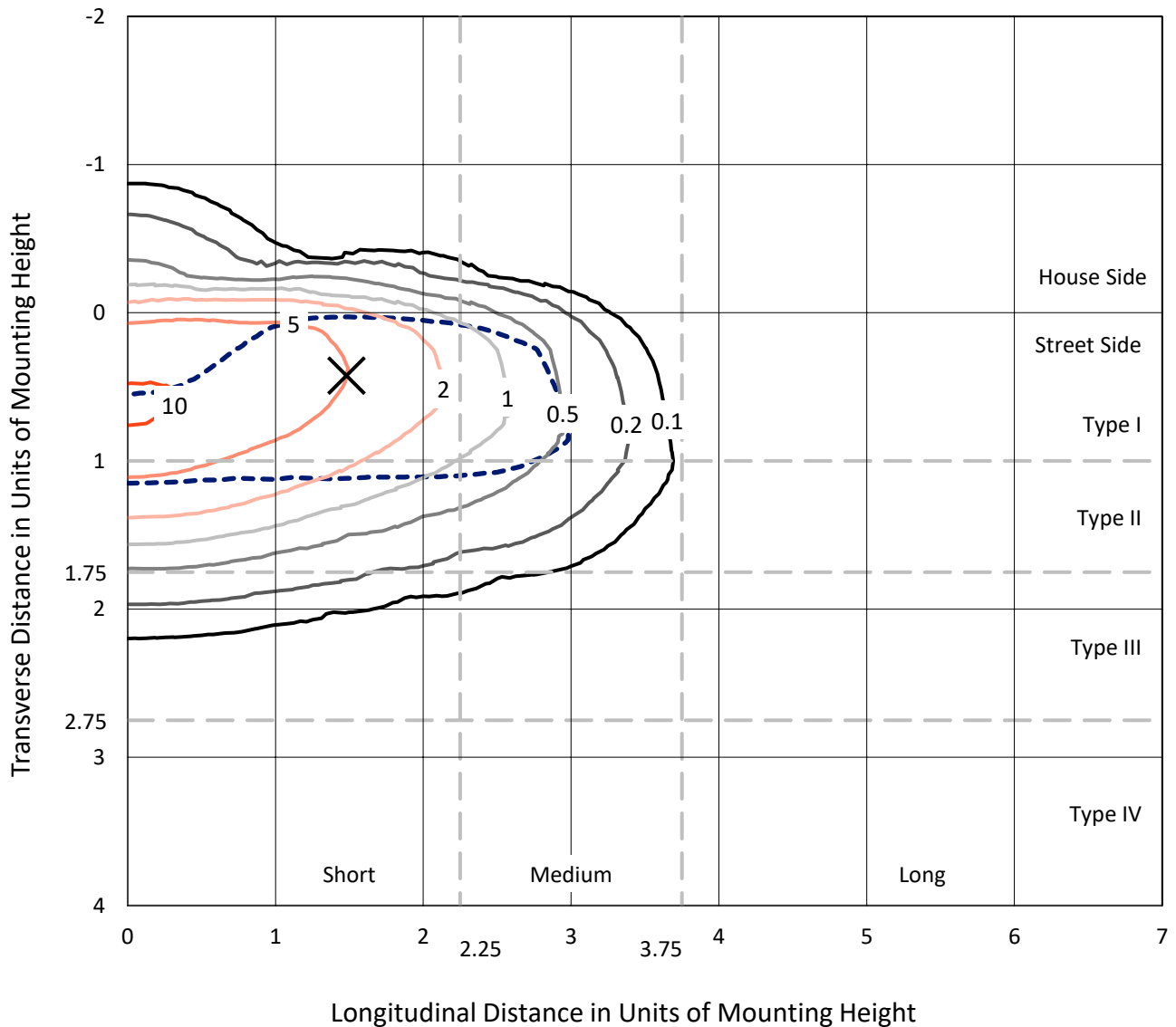
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

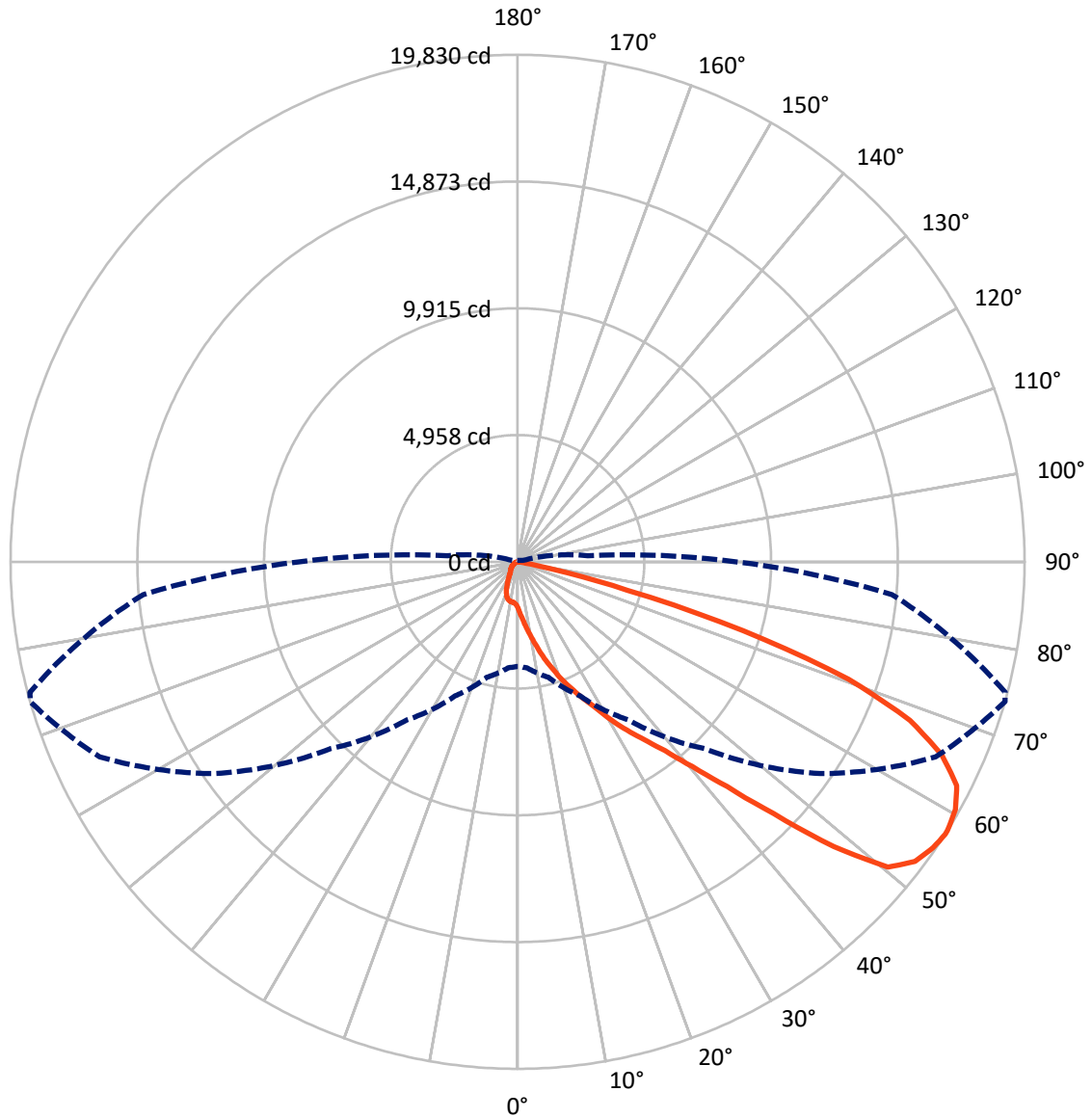
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	1237.0	0.0	1237.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20210.2	0.0	20210.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	21447.2	0.0	21447.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	1.0
10°-20°	854.5	4.0
20°-30°	1828.5	8.5
30°-40°	3360.8	15.7
40°-50°	5152.2	24.0
50°-60°	5450.3	25.4
60°-70°	3559.2	16.6
70°-80°	972.5	4.5
80°-90°	52.4	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°	21447.2	100.0
0°-180°	21447.2	100.0

Coefficient of Utilization

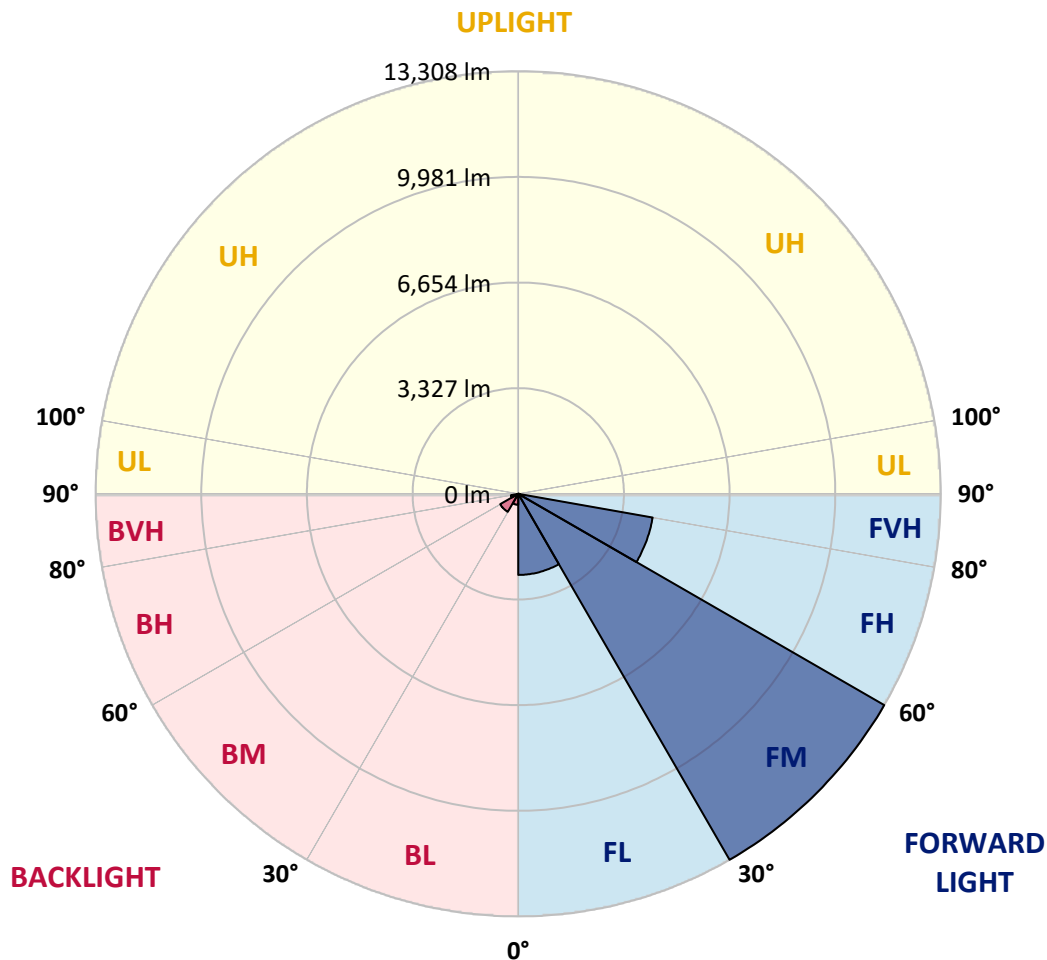


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2554.3	11.9			
FM (30°-60°)	13308.4	62.1			
FH (60°-80°)	4299.5	20.0			G2/5000
FVH (80°-90°)	48.0	0.2			G1/100
BL (0°-30°)	345.5	1.6	B1/500		
BM (30°-60°)	654.9	3.1	B1/1000		
BH (60°-80°)	232.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2
2.5°	2628.4	2604.7	2557.3	2541.0	2471.4	2363.3	2268.5	2141.2	2040.5	2030.2	1908.7
5°	3519.8	3466.5	3444.2	3337.7	3170.3	3013.4	2743.8	2539.5	2304.1	2286.3	2041.9
7.5°	4378.7	4304.6	4282.4	4181.7	3986.3	3738.9	3389.5	3017.8	2644.7	2610.6	2221.2
10°	5000.6	5010.9	4971.0	4904.3	4745.8	4494.1	4063.2	3555.3	3023.7	2980.8	2422.5
12.5°	5446.2	5444.8	5452.2	5450.7	5366.3	5175.3	4722.2	4137.3	3441.3	3356.9	2653.5
15°	5736.5	5740.9	5763.1	5840.2	5849.1	5730.6	5353.0	4694.0	3925.5	3820.4	2903.8
17.5°	6029.7	6060.8	6096.3	6168.9	6234.1	6186.6	5920.1	5274.5	4363.9	4285.3	3171.8
20°	6513.9	6556.9	6536.1	6580.6	6614.6	6619.0	6413.2	5810.6	4895.5	4763.7	3478.3
22.5°	7288.4	7286.8	7233.5	7153.6	7086.9	7084.0	6897.5	6361.4	5378.2	5250.8	3786.4
25°	8267.1	8271.6	8168.0	7939.9	7774.0	7571.2	7356.5	6844.1	5894.9	5738.0	4110.6
27.5°	9389.6	9361.4	9204.5	8890.5	8561.8	8215.3	7905.8	7405.3	6442.8	6312.5	4482.3
30°	10398.0	10387.6	10204.0	9820.4	9388.1	9040.1	8591.4	8108.7	7152.1	6992.2	4898.4
32.5°	11336.8	11351.6	11096.9	10700.0	10282.5	9881.2	9407.3	8781.0	7848.0	7621.6	5351.5
35°	12069.8	12084.6	11821.0	11490.8	11061.3	10728.2	10276.5	9497.7	8535.1	8344.1	5872.7
37.5°	12460.7	12479.9	12327.4	12078.6	11810.6	11643.3	11222.7	10420.2	9370.3	9254.8	6488.7
40°	12534.7	12556.9	12490.3	12423.7	12408.9	12528.8	12405.9	11507.1	10528.3	10347.6	7406.8
42.5°	12312.6	12342.2	12371.9	12519.9	12822.0	13261.8	13689.7	12981.9	12019.4	11776.5	8529.3
45°	11729.2	11726.2	11843.2	12226.7	12903.5	13842.3	15031.3	14828.4	14051.0	13762.3	10115.1
47.5°	10731.2	10716.4	10969.5	11516.0	12570.3	13948.8	16125.6	17070.3	16643.8	16377.3	11819.5
50°	9210.4	9283.0	9681.3	10443.9	11742.5	13626.1	16463.2	18540.7	18771.7	18488.9	13196.6
52.5°	7429.1	7426.0	8051.0	9086.0	10516.5	12915.2	16227.8	18807.3	19463.3	19247.0	13874.8
55°	5498.1	5536.6	6186.6	7230.6	8924.6	11618.1	15459.3	18533.3	19726.8	19574.3	14322.0
57°	4089.9	4158.0	4679.2	5783.9	7538.6	10334.3	14436.0	18043.2	19830.4	19747.5	14693.7
57.5°	3817.4	3820.4	4328.3	5332.3	7132.9	9841.2	14142.8	17838.9	19827.5	19781.6	14754.4
60°	2350.0	2424.0	2775.0	3604.2	5221.2	7680.8	12177.8	16664.6	19673.5	19740.1	15013.5
62.5°	1406.7	1437.9	1665.9	2172.3	3365.8	5606.2	9965.6	15161.6	19272.2	19475.1	14995.8
65°	904.7	912.1	1015.8	1314.9	2104.2	3789.3	7679.3	13175.9	18234.2	18607.4	14409.4
67.5°	699.0	710.7	752.2	863.3	1220.1	2360.4	5431.4	11056.9	16555.0	17036.2	12987.8
70°	620.4	626.4	641.2	676.8	807.0	1332.7	3379.1	8637.3	13728.2	13864.5	10164.0
72.5°	506.5	522.7	568.6	580.5	639.7	832.2	1880.6	5797.2	9223.8	9257.8	5686.2
75°	392.4	395.4	463.5	497.5	539.0	573.1	839.6	2923.1	4430.5	4193.6	2191.6
77.5°	293.2	306.5	337.6	380.6	439.8	410.2	376.1	1101.7	1375.6	1350.5	636.7
80°	188.0	195.4	235.5	285.8	342.0	268.0	211.8	322.8	302.1	311.0	152.6
82.5°	94.8	96.2	151.0	232.5	217.7	134.7	133.3	131.8	112.5	111.1	71.1
85°	10.3	22.2	97.7	133.3	97.7	44.4	62.2	60.7	59.2	60.7	41.5
87.5°	1.5	1.5	16.3	19.3	13.3	14.8	17.7	19.3	23.7	22.2	17.7
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°	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2	1796.2
2.5°	1849.4	1790.2	1680.7	1575.5	1497.1	1446.7	1381.6	1357.9	1323.8	1319.4	1303.0
5°	1929.4	1816.9	1625.9	1474.9	1353.4	1261.6	1181.7	1115.0	1061.7	1049.9	1055.8
7.5°	2043.5	1876.1	1609.6	1403.8	1234.9	1078.0	950.7	872.2	815.9	795.2	798.1
10°	2172.3	1954.7	1606.6	1328.3	1070.6	878.1	738.9	669.3	636.7	624.9	611.6
12.5°	2324.8	2045.0	1599.2	1211.3	889.9	700.4	601.2	559.8	528.7	519.7	519.7
15°	2496.6	2141.2	1563.7	1066.1	722.6	578.9	512.3	479.8	469.4	460.5	460.5
17.5°	2675.7	2236.0	1489.7	887.0	599.7	496.0	454.6	435.4	420.5	410.2	410.2
20°	2880.1	2329.2	1371.2	728.6	506.5	442.8	410.2	388.0	376.1	367.3	364.2
22.5°	3074.1	2404.8	1220.1	598.2	441.3	398.3	368.7	345.0	333.2	328.7	328.7
25°	3275.4	2450.7	1038.0	494.6	402.8	361.3	328.7	309.5	299.1	296.1	294.7
27.5°	3470.9	2477.3	878.1	432.4	367.3	327.2	296.1	281.3	271.0	268.0	269.5
30°	3707.9	2481.8	722.6	388.0	336.1	294.7	266.5	253.2	247.3	244.3	242.9
32.5°	3947.7	2475.8	607.1	361.3	306.5	266.5	242.9	232.5	228.1	223.6	223.6
35°	4217.2	2444.8	516.8	334.6	278.4	242.9	222.1	213.2	207.3	202.8	201.4
37.5°	4551.9	2428.5	465.0	305.0	253.2	220.6	201.4	192.5	188.0	182.2	180.6
40°	5079.1	2501.0	448.7	278.4	228.1	199.9	182.2	171.7	165.8	160.0	158.4
42.5°	5736.5	2628.4	422.0	251.7	205.8	180.6	162.9	151.0	140.7	133.3	130.3
45°	6588.0	2795.7	380.6	223.6	186.6	160.0	143.6	128.8	115.5	109.6	108.1
47.5°	7480.9	2957.1	343.5	201.4	165.8	142.1	124.4	108.1	96.2	91.8	90.3
50°	8028.8	2989.7	319.8	176.2	145.2	122.9	105.1	90.3	82.9	78.5	78.5
52.5°	8279.0	2937.9	287.3	154.0	125.9	108.1	90.3	78.5	74.0	71.1	69.6
55°	8453.7	2857.9	244.3	133.3	108.1	91.8	80.0	71.1	65.2	62.2	60.7
57°	8555.9	2749.8	211.8	117.0	93.3	80.0	71.1	63.7	57.8	51.8	51.8
57.5°	8560.4	2708.4	202.8	115.5	88.8	77.0	69.6	62.2	54.7	48.9	47.3
60°	8428.5	2424.0	162.9	97.7	71.1	65.2	57.8	48.9	38.5	32.5	31.1
62.5°	8005.1	2062.7	134.7	82.9	57.8	50.4	41.5	37.0	26.7	19.3	19.3
65°	7363.9	1673.3	115.5	66.6	47.3	37.0	28.2	26.7	16.3	8.9	7.4
67.5°	6436.9	1303.0	97.7	54.7	39.9	26.7	19.3	17.7	8.9	2.9	0.0
70°	4904.3	888.4	81.4	44.4	29.6	19.3	13.3	10.3	5.9	1.5	0.0
72.5°	2826.8	488.6	68.1	34.1	22.2	14.8	10.3	5.9	5.9	0.0	0.0
75°	1009.9	210.2	51.8	25.1	17.7	11.9	7.4	2.9	4.5	1.5	0.0
77.5°	321.3	112.5	34.1	19.3	14.8	8.9	5.9	2.9	2.9	1.5	0.0
80°	94.8	59.2	20.8	16.3	10.3	7.4	4.5	1.5	2.9	1.5	0.0
82.5°	51.8	29.6	16.3	11.9	10.3	5.9	4.5	1.5	1.5	1.5	0.0
85°	26.7	17.7	13.3	11.9	10.3	5.9	4.5	1.5	0.0	1.5	1.5
87.5°	14.8	13.3	13.3	11.9	10.3	7.4	4.5	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)