

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: P459228

Luminaire Tested: **GALN-SA7A-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459228
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-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 23756 lumens
Efficiency: N/A
Efficacy: 110.5 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

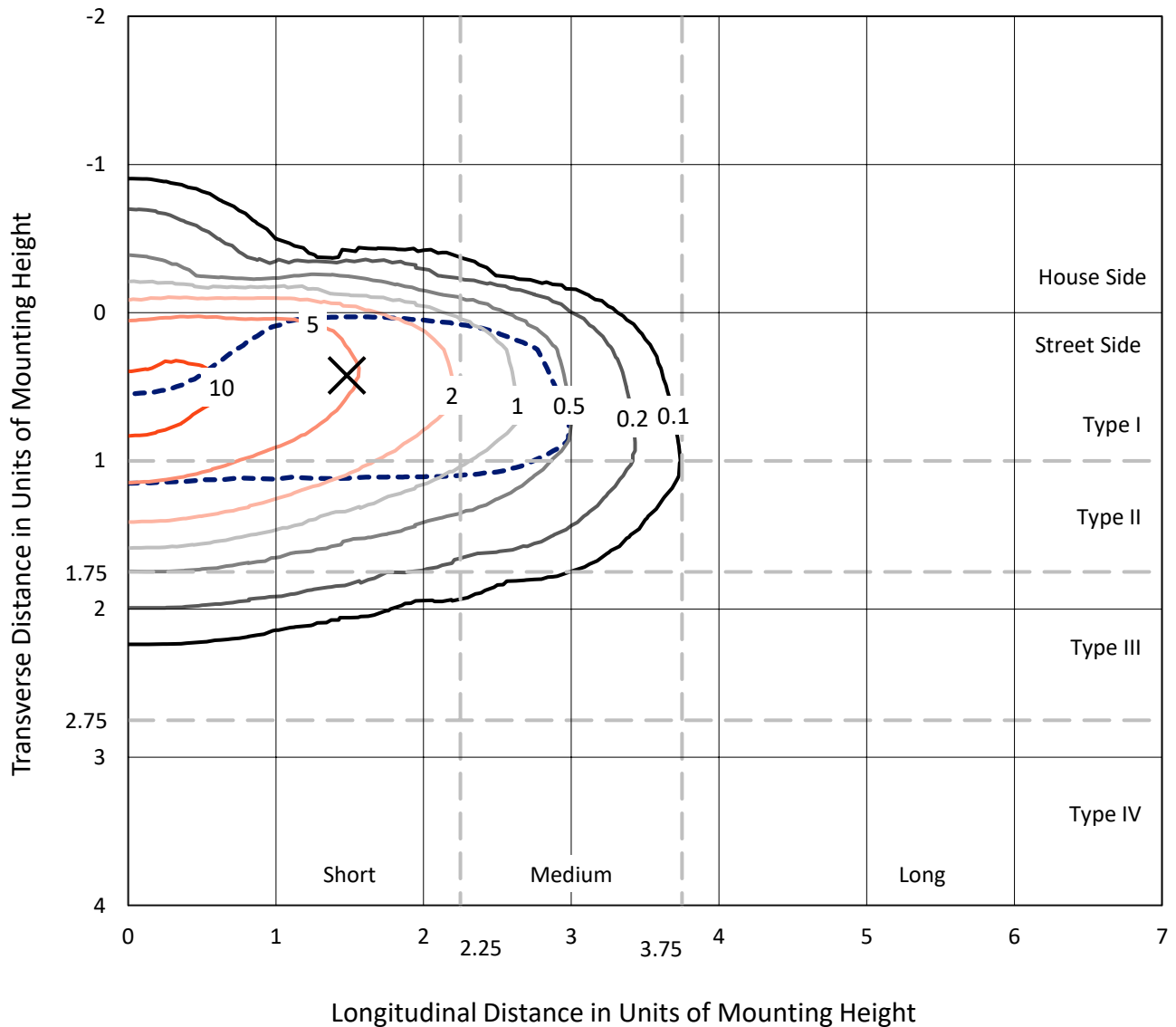
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

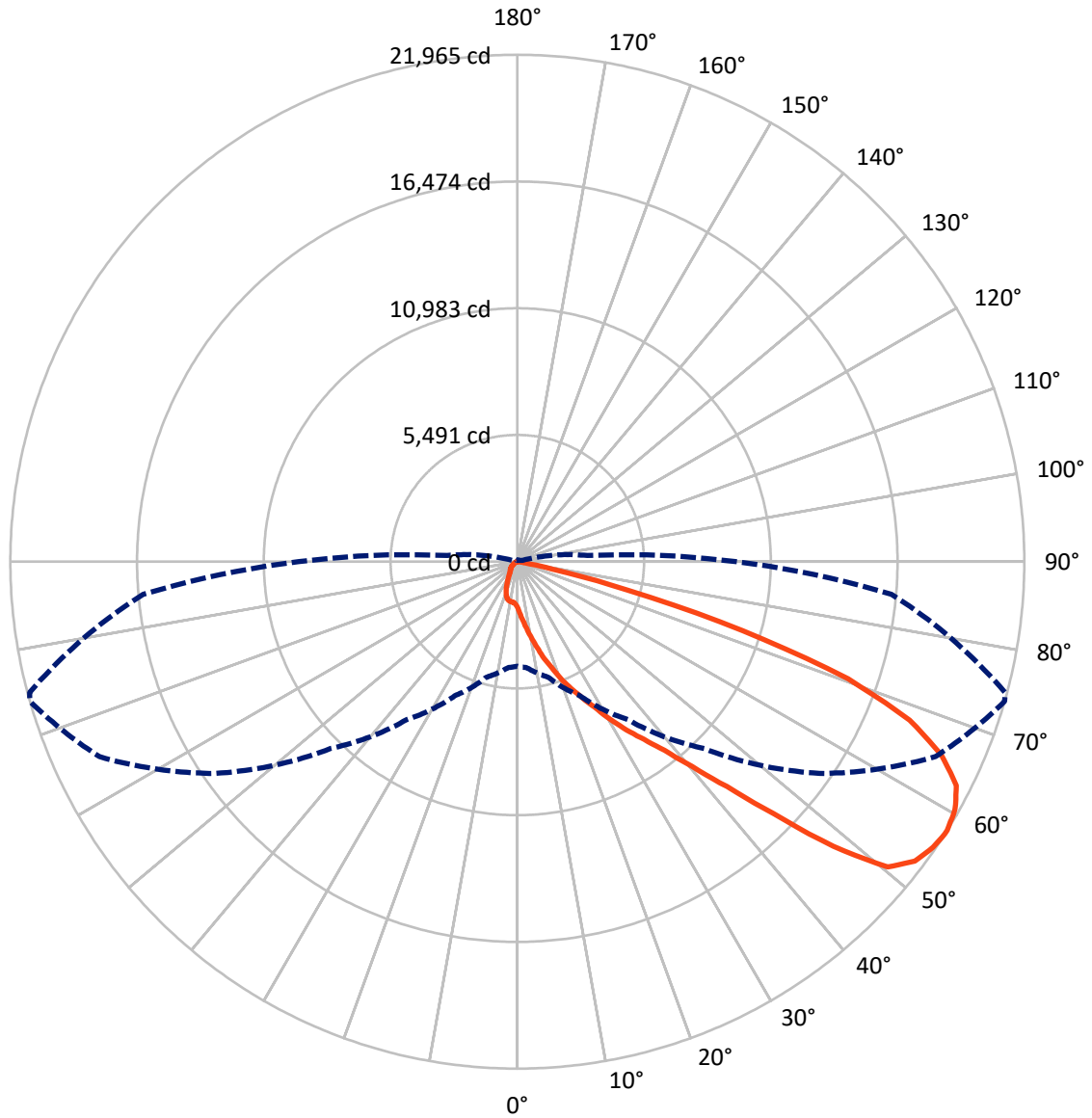
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	1370.2	0.0	1370.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	22385.8	0.0	22385.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	23756.0	0.0	23756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.0
10°-20°	946.5	4.0
20°-30°	2025.4	8.5
30°-40°	3722.6	15.7
40°-50°	5706.8	24.0
50°-60°	6037.0	25.4
60°-70°	3942.3	16.6
70°-80°	1077.2	4.5
80°-90°	58.0	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°	23756.0	100.0
0°-180°	23756.0	100.0

Coefficient of Utilization

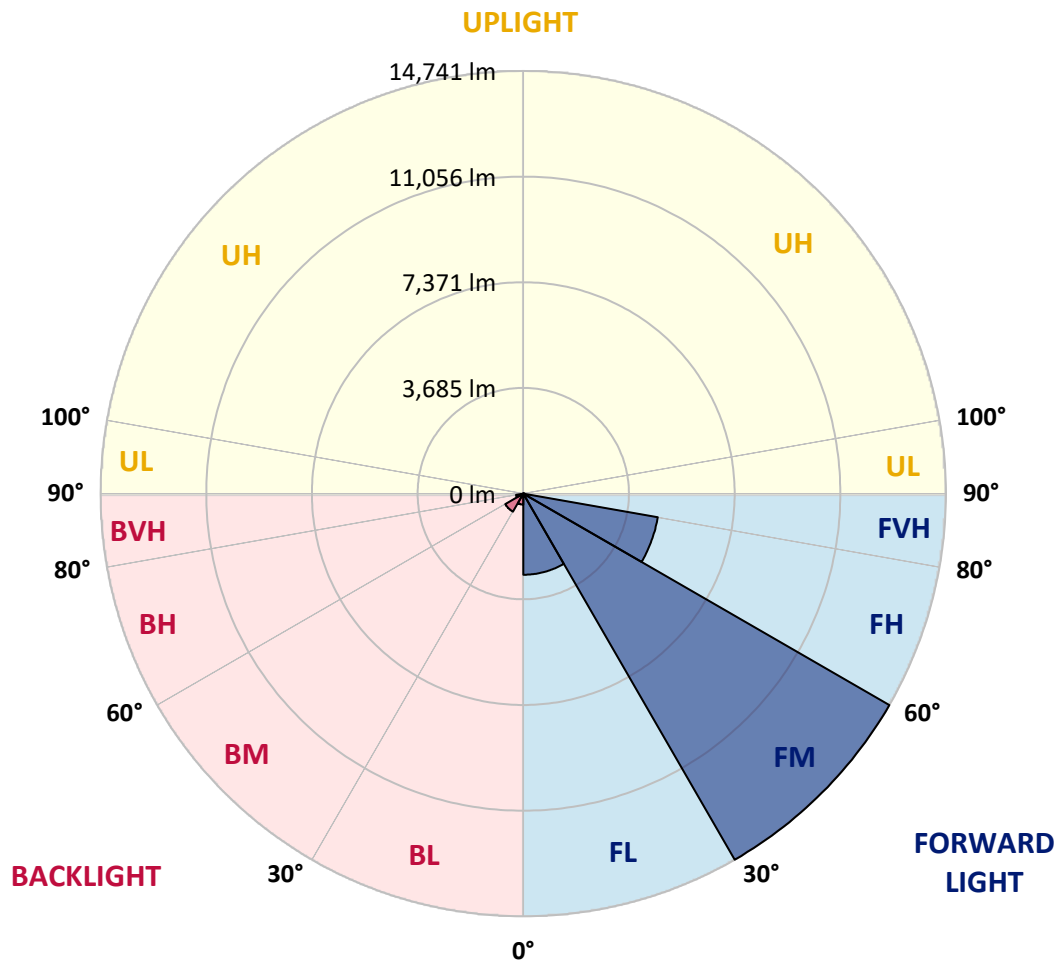


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2829.3	11.9			
FM (30°-60°)	14741.0	62.1			
FH (60°-80°)	4762.3	20.0			G2/5000
FVH (80°-90°)	53.2	0.2			G1/100
BL (0°-30°)	382.7	1.6	B1/500		
BM (30°-60°)	725.4	3.1	B1/1000		
BH (60°-80°)	257.2	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°	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5
2.5°	2911.3	2885.1	2832.6	2814.5	2737.5	2617.7	2512.8	2371.7	2260.2	2248.7	2114.2
5°	3898.7	3839.7	3815.1	3697.0	3511.6	3337.8	3039.2	2812.9	2552.1	2532.4	2261.8
7.5°	4850.0	4768.0	4743.4	4631.9	4415.4	4141.4	3754.4	3342.7	2929.4	2891.6	2460.3
10°	5538.9	5550.4	5506.1	5432.3	5256.8	4977.9	4500.6	3938.1	3349.2	3301.7	2683.3
12.5°	6032.6	6030.9	6039.1	6037.5	5944.0	5732.4	5230.5	4582.7	3811.8	3718.3	2939.2
15°	6354.0	6359.0	6383.6	6468.9	6478.7	6347.5	5929.2	5199.4	4348.1	4231.7	3216.4
17.5°	6678.8	6713.2	6752.6	6833.0	6905.1	6852.7	6557.4	5842.3	4833.6	4746.7	3513.3
20°	7215.1	7262.7	7239.7	7288.9	7326.7	7331.6	7103.6	6436.1	5422.4	5276.4	3852.8
22.5°	8072.9	8071.3	8012.3	7923.7	7849.9	7846.6	7639.9	7046.2	5957.1	5816.1	4193.9
25°	9157.1	9162.0	9047.2	8794.6	8610.9	8386.2	8148.4	7580.9	6529.5	6355.7	4553.1
27.5°	10400.4	10369.2	10195.3	9847.6	9483.5	9099.7	8756.9	8202.5	7136.4	6992.1	4964.8
30°	11517.3	11505.8	11302.5	10877.7	10398.7	10013.3	9516.3	8981.6	7922.1	7744.9	5425.7
32.5°	12557.2	12573.6	12291.5	11851.9	11389.4	10944.9	10420.0	9726.2	8692.9	8442.0	5927.6
35°	13369.1	13385.5	13093.5	12727.8	12252.1	11883.1	11382.8	10520.1	9454.0	9242.4	6504.9
37.5°	13802.1	13823.4	13654.5	13378.9	13082.0	12896.7	12430.9	11541.9	10379.0	10251.1	7187.3
40°	13884.1	13908.7	13834.9	13761.1	13744.7	13877.5	13741.4	12745.8	11661.7	11461.6	8204.2
42.5°	13638.1	13670.9	13703.7	13867.7	14202.3	14689.4	15163.4	14379.4	13313.3	13044.3	9447.4
45°	12991.8	12988.6	13118.1	13542.9	14292.5	15332.4	16649.4	16424.7	15563.6	15243.8	11204.0
47.5°	11886.4	11870.0	12150.4	12755.7	13923.5	15450.5	17861.5	18908.0	18435.6	18140.4	13091.9
50°	10201.9	10282.3	10723.5	11568.2	13006.6	15092.9	18235.5	20536.6	20792.5	20479.2	14617.3
52.5°	8228.8	8225.5	8917.6	10064.1	11648.5	14305.6	17974.7	20831.9	21558.5	21319.0	15368.5
55°	6090.0	6132.6	6852.7	8009.0	9885.3	12868.8	17123.4	20528.4	21850.4	21681.5	15863.8
57°	4530.2	4605.6	5183.0	6406.5	8350.1	11446.8	15990.1	19985.6	21965.2	21873.4	16275.5
57.5°	4228.4	4231.7	4794.2	5906.3	7900.7	10900.6	15665.3	19759.2	21962.0	21911.1	16342.7
60°	2603.0	2685.0	3073.7	3992.2	5783.3	8507.6	13488.8	18458.5	21791.4	21865.2	16629.7
62.5°	1558.2	1592.6	1845.2	2406.1	3728.1	6209.7	11038.4	16793.8	21346.9	21571.6	16610.1
65°	1002.1	1010.3	1125.2	1456.5	2330.7	4197.2	8506.0	14594.3	20197.1	20610.5	15960.6
67.5°	774.2	787.3	833.2	956.2	1351.5	2614.4	6016.2	12247.2	18337.2	18870.2	14386.0
70°	687.2	693.8	710.2	749.6	893.9	1476.2	3742.9	9567.1	15206.1	15357.0	11258.2
72.5°	560.9	579.0	629.8	642.9	708.6	921.8	2083.0	6421.3	10216.7	10254.4	6298.3
75°	434.6	437.9	513.4	551.1	597.0	634.7	930.0	3237.7	4907.4	4645.0	2427.5
77.5°	324.8	339.5	374.0	421.5	487.1	454.3	416.6	1220.3	1523.7	1495.8	705.3
80°	208.3	216.5	260.8	316.6	378.9	296.9	234.5	357.6	334.6	344.4	168.9
82.5°	105.0	106.6	167.3	257.5	241.1	149.3	147.6	146.0	124.7	123.0	78.7
85°	11.5	24.6	108.3	147.6	108.3	49.2	68.9	67.2	65.6	67.2	45.9
87.5°	1.6	1.6	18.0	21.3	14.8	16.4	19.7	21.3	26.2	24.6	19.7
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°	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5
2.5°	2048.6	1983.0	1861.6	1745.1	1658.2	1602.5	1530.3	1504.0	1466.3	1461.4	1443.4
5°	2137.1	2012.5	1800.9	1633.6	1499.1	1397.4	1308.9	1235.1	1176.0	1162.9	1169.4
7.5°	2263.4	2078.1	1782.9	1554.9	1367.9	1194.0	1053.0	966.1	903.7	880.8	884.1
10°	2406.1	2165.0	1779.6	1471.2	1185.8	972.6	818.4	741.4	705.3	692.2	677.4
12.5°	2575.1	2265.1	1771.4	1341.7	985.7	775.8	665.9	620.0	585.5	575.7	575.7
15°	2765.3	2371.7	1732.0	1180.9	800.4	641.3	567.5	531.4	519.9	510.1	510.1
17.5°	2963.8	2476.7	1650.0	982.5	664.3	549.5	503.5	482.2	465.8	454.3	454.3
20°	3190.1	2580.0	1518.8	807.0	560.9	490.4	454.3	429.7	416.6	406.8	403.5
22.5°	3405.0	2663.6	1351.5	662.6	488.8	441.2	408.4	382.2	369.0	364.1	364.1
25°	3628.1	2714.5	1149.8	547.8	446.1	400.2	364.1	342.8	331.3	328.0	326.4
27.5°	3844.6	2744.0	972.6	478.9	406.8	362.5	328.0	311.6	300.2	296.9	298.5
30°	4107.0	2748.9	800.4	429.7	372.3	326.4	295.2	280.5	273.9	270.6	269.0
32.5°	4372.7	2742.4	672.5	400.2	339.5	295.2	269.0	257.5	252.6	247.7	247.7
35°	4671.2	2707.9	572.4	370.7	308.4	269.0	246.0	236.2	229.6	224.7	223.1
37.5°	5041.9	2689.9	515.0	337.9	280.5	244.4	223.1	213.2	208.3	201.7	200.1
40°	5625.8	2770.3	497.0	308.4	252.6	221.4	201.7	190.3	183.7	177.1	175.5
42.5°	6354.0	2911.3	467.5	278.8	228.0	200.1	180.4	167.3	155.8	147.6	144.3
45°	7297.1	3096.7	421.5	247.7	206.7	177.1	159.1	142.7	127.9	121.4	119.7
47.5°	8286.2	3275.4	380.5	223.1	183.7	157.5	137.8	119.7	106.6	101.7	100.1
50°	8893.0	3311.5	354.3	195.2	160.7	136.1	116.5	100.1	91.8	86.9	86.9
52.5°	9170.2	3254.1	318.2	170.6	139.4	119.7	100.1	86.9	82.0	78.7	77.1
55°	9363.8	3165.5	270.6	147.6	119.7	101.7	88.6	78.7	72.2	68.9	67.2
57°	9476.9	3045.8	234.5	129.6	103.3	88.6	78.7	70.5	64.0	57.4	57.4
57.5°	9481.9	2999.9	224.7	127.9	98.4	85.3	77.1	68.9	60.7	54.1	52.5
60°	9335.9	2685.0	180.4	108.3	78.7	72.2	64.0	54.1	42.6	36.1	34.4
62.5°	8866.8	2284.8	149.3	91.8	64.0	55.8	45.9	41.0	29.5	21.3	21.3
65°	8156.6	1853.4	127.9	73.8	52.5	41.0	31.2	29.5	18.0	9.8	8.2
67.5°	7129.8	1443.4	108.3	60.7	44.3	29.5	21.3	19.7	9.8	3.3	0.0
70°	5432.3	984.1	90.2	49.2	32.8	21.3	14.8	11.5	6.6	1.6	0.0
72.5°	3131.1	541.3	75.4	37.7	24.6	16.4	11.5	6.6	6.6	0.0	0.0
75°	1118.6	232.9	57.4	27.9	19.7	13.1	8.2	3.3	4.9	1.6	0.0
77.5°	355.9	124.7	37.7	21.3	16.4	9.8	6.6	3.3	3.3	1.6	0.0
80°	105.0	65.6	23.0	18.0	11.5	8.2	4.9	1.6	3.3	1.6	0.0
82.5°	57.4	32.8	18.0	13.1	11.5	6.6	4.9	1.6	1.6	1.6	0.0
85°	29.5	19.7	14.8	13.1	11.5	6.6	4.9	1.6	0.0	1.6	1.6
87.5°	16.4	14.8	14.8	13.1	11.5	8.2	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)