

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: P455574

Luminaire Tested: **GALN-SA6D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455574
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-SA6D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 33448 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

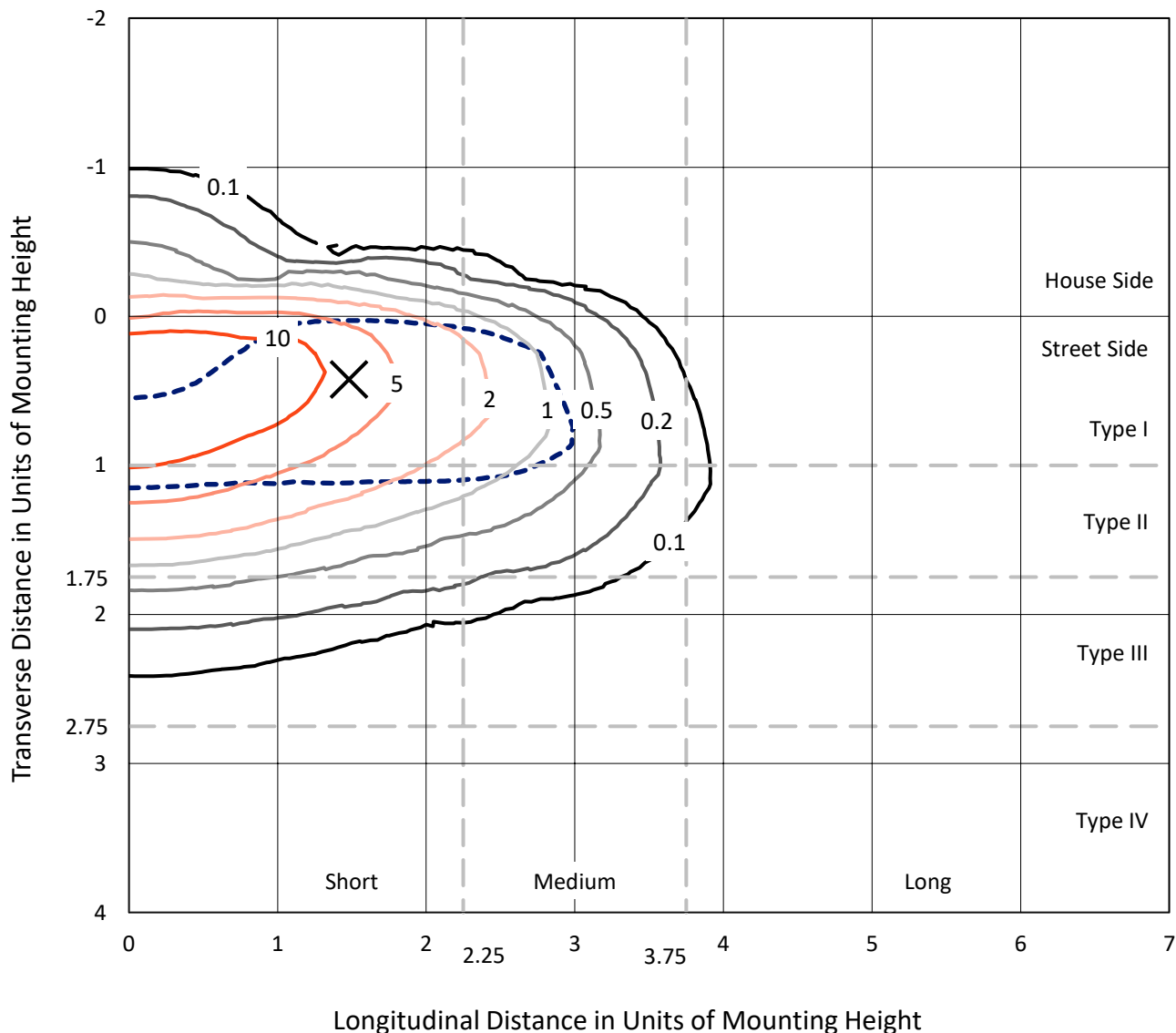
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

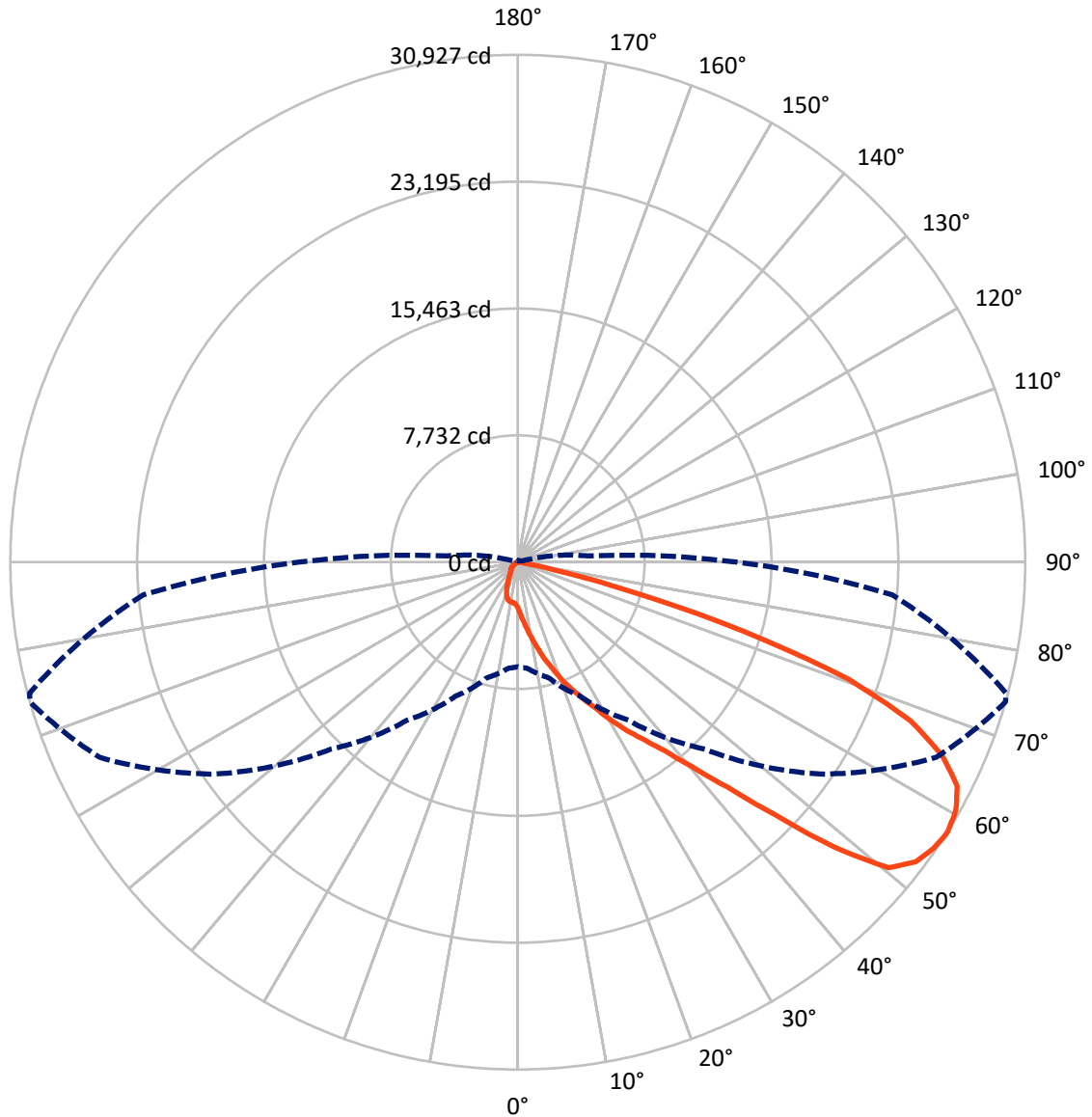
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	1929.2	0.0	1929.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	31518.8	0.0	31518.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	33448.0	0.0	33448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	1.0
10°-20°	1332.7	4.0
20°-30°	2851.7	8.5
30°-40°	5241.3	15.7
40°-50°	8035.1	24.0
50°-60°	8500.0	25.4
60°-70°	5550.7	16.6
70°-80°	1516.7	4.5
80°-90°	81.6	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°	33448.0	100.0
0°-180°	33448.0	100.0

Coefficient of Utilization



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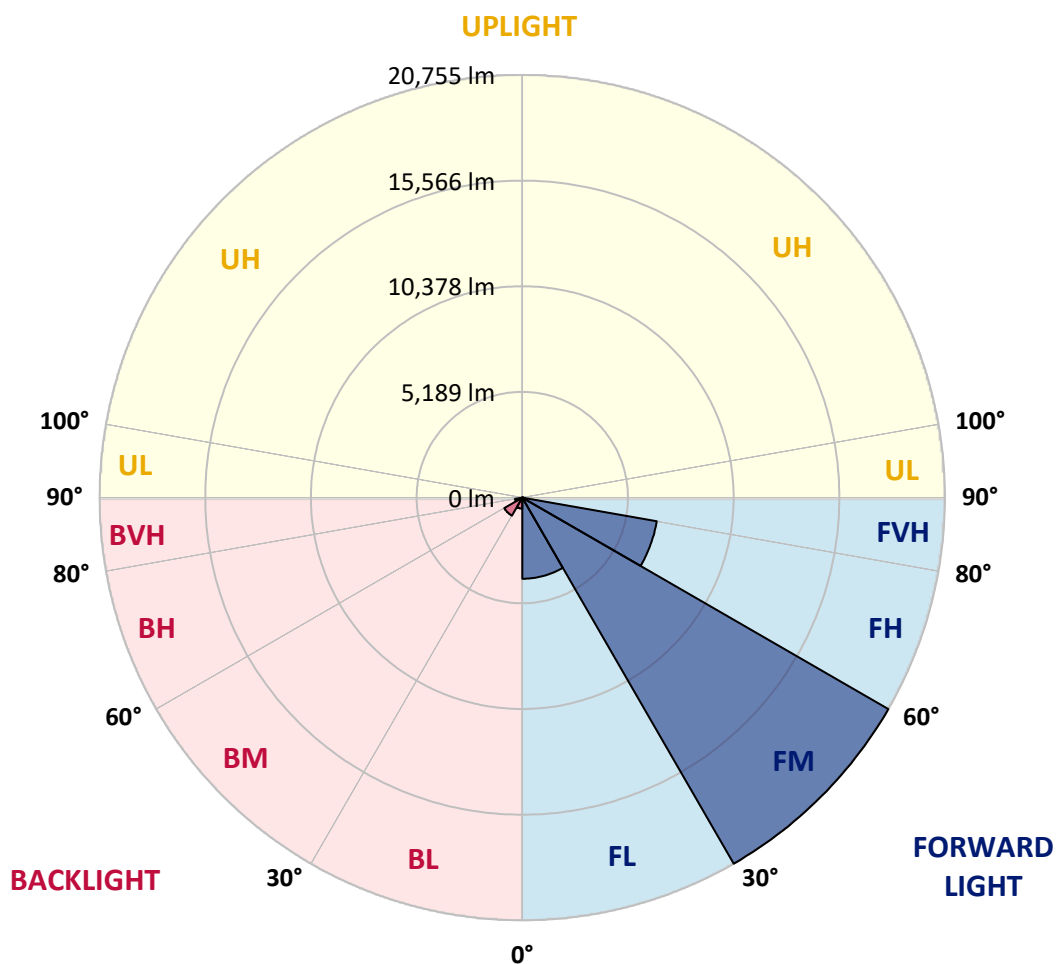
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3983.6	11.9			
FM	(30°-60°)	20755.1	62.1			
FH	(60°-80°)	6705.2	20.0			G3/7500
FVH	(80°-90°)	74.9	0.2			G1/100
BL	(0°-30°)	538.9	1.6	B2/1000		
BM	(30°-60°)	1021.3	3.1	B2/2500		
BH	(60°-80°)	362.2	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	4099.1	4062.1	3988.2	3962.8	3854.3	3685.7	3537.9	3339.3	3182.3	3166.1	2976.7
5°	5489.3	5406.2	5371.5	5205.2	4944.3	4699.5	4279.2	3960.5	3593.3	3565.6	3184.6
7.5°	6828.7	6713.2	6678.6	6521.6	6216.7	5831.1	5286.1	4706.4	4124.5	4071.4	3464.0
10°	7798.6	7814.8	7752.4	7648.5	7401.4	7008.8	6336.8	5544.7	4715.7	4648.7	3778.1
12.5°	8493.7	8491.4	8503.0	8500.7	8369.0	8071.1	7364.5	6452.3	5366.9	5235.3	4138.3
15°	8946.4	8953.3	8987.9	9108.0	9121.9	8937.1	8348.3	7320.6	6122.1	5958.1	4528.6
17.5°	9403.6	9452.1	9507.5	9620.7	9722.3	9648.4	9232.7	8225.9	6805.6	6683.2	4946.6
20°	10158.8	10225.7	10193.4	10262.7	10315.8	10322.7	10001.7	9061.8	7634.7	7429.1	5424.6
22.5°	11366.6	11364.3	11281.1	11156.4	11052.5	11047.9	10756.9	9920.9	8387.5	8188.9	5905.0
25°	12893.0	12900.0	12738.3	12382.7	12124.0	11807.6	11472.8	10673.8	9193.5	8948.7	6410.7
27.5°	14643.5	14599.6	14354.8	13865.3	13352.6	12812.2	12329.6	11549.0	10047.9	9844.7	6990.4
30°	16216.2	16200.0	15913.6	15315.5	14641.2	14098.5	13398.8	12645.9	11154.1	10904.7	7639.3
32.5°	17680.3	17703.4	17306.2	16687.3	16036.0	15410.2	14671.2	13694.4	12239.5	11886.2	8345.9
35°	18823.4	18846.5	18435.4	17920.5	17250.8	16731.2	16026.8	14812.1	13311.0	13013.1	9158.8
37.5°	19433.1	19463.1	19225.2	18837.3	18419.3	18158.3	17502.5	16250.8	14613.5	14433.4	10119.5
40°	19548.5	19583.2	19479.3	19375.3	19352.2	19539.3	19347.6	17945.9	16419.4	16137.7	11551.3
42.5°	19202.1	19248.3	19294.5	19525.4	19996.6	20682.4	21349.8	20246.0	18744.9	18366.2	13301.8
45°	18292.3	18287.6	18470.1	19068.2	20123.6	21587.7	23442.1	23125.7	21913.3	21463.0	15775.1
47.5°	16735.8	16712.7	17107.6	17959.7	19604.0	21754.0	25148.7	26622.0	25957.0	25541.3	18433.1
50°	14364.1	14477.2	15098.4	16287.8	18313.0	21250.5	25675.2	28915.2	29275.5	28834.4	20580.8
52.5°	11585.9	11581.3	12555.9	14170.1	16400.9	20142.0	25308.0	29330.9	30353.9	30016.8	21638.5
55°	8574.6	8634.6	9648.4	11276.5	13918.4	18119.1	24109.5	28903.7	30765.0	30527.1	22335.9
57°	6378.4	6484.6	7297.5	9020.3	11756.8	16116.9	22513.7	28139.3	30926.6	30797.3	22915.6
57.5°	5953.5	5958.1	6750.2	8315.9	11124.1	15347.9	22056.5	27820.6	30922.0	30850.4	23010.2
60°	3664.9	3780.4	4327.7	5620.9	8142.7	11978.5	18992.0	25989.3	30681.9	30785.8	23414.4
62.5°	2193.9	2242.4	2598.0	3387.8	5249.1	8743.2	15541.8	23645.3	30056.0	30372.4	23386.7
65°	1411.0	1422.6	1584.2	2050.7	3281.6	5909.6	11976.2	20548.5	28437.2	29019.1	22472.2
67.5°	1090.0	1108.5	1173.1	1346.3	1902.9	3681.1	8470.7	17243.8	25818.4	26568.9	20255.2
70°	967.6	976.8	999.9	1055.4	1258.6	2078.4	5269.9	13470.4	21409.9	21622.3	15851.3
72.5°	789.8	815.2	886.8	905.3	997.6	1297.8	2932.9	9041.1	14384.9	14438.0	8867.9
75°	612.0	616.6	722.8	775.9	840.6	893.7	1309.4	4558.6	6909.5	6540.0	3417.8
77.5°	457.2	478.0	526.5	593.5	685.9	639.7	586.6	1718.1	2145.4	2106.1	993.0
80°	293.3	304.8	367.2	445.7	533.5	418.0	330.2	503.4	471.1	485.0	237.9
82.5°	147.8	150.1	235.6	362.6	339.5	210.1	207.8	205.5	175.5	173.2	110.8
85°	16.2	34.6	152.4	207.8	152.4	69.3	97.0	94.7	92.4	94.7	64.7
87.5°	2.3	2.3	25.4	30.0	20.8	23.1	27.7	30.0	36.9	34.6	27.7
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°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	2884.4	2792.0	2621.1	2457.1	2334.7	2256.2	2154.6	2117.7	2064.5	2057.6	2032.2
5°	3009.1	2833.6	2535.7	2300.1	2110.7	1967.6	1842.9	1738.9	1655.8	1637.3	1646.6
7.5°	3186.9	2925.9	2510.2	2189.3	1926.0	1681.2	1482.6	1360.2	1272.4	1240.1	1244.7
10°	3387.8	3048.3	2505.6	2071.5	1669.7	1369.4	1152.4	1043.8	993.0	974.5	953.8
12.5°	3625.7	3189.2	2494.1	1889.0	1387.9	1092.3	937.6	872.9	824.4	810.6	810.6
15°	3893.5	3339.3	2438.7	1662.7	1127.0	903.0	799.0	748.2	732.1	718.2	718.2
17.5°	4173.0	3487.1	2323.2	1383.3	935.3	773.6	709.0	678.9	655.9	639.7	639.7
20°	4491.7	3632.6	2138.4	1136.2	789.8	690.5	639.7	605.0	586.6	572.7	568.1
22.5°	4794.2	3750.4	1902.9	933.0	688.2	621.2	575.0	538.1	519.6	512.7	512.7
25°	5108.3	3822.0	1618.8	771.3	628.1	563.5	512.7	482.7	466.5	461.9	459.6
27.5°	5413.1	3863.5	1369.4	674.3	572.7	510.4	461.9	438.8	422.6	418.0	420.3
30°	5782.6	3870.4	1127.0	605.0	524.2	459.6	415.7	394.9	385.7	381.0	378.7
32.5°	6156.7	3861.2	946.8	563.5	478.0	415.7	378.7	362.6	355.6	348.7	348.7
35°	6577.0	3812.7	806.0	521.9	434.2	378.7	346.4	332.5	323.3	316.4	314.1
37.5°	7098.9	3787.3	725.1	475.7	394.9	344.1	314.1	300.2	293.3	284.0	281.7
40°	7921.0	3900.5	699.7	434.2	355.6	311.8	284.0	267.9	258.6	249.4	247.1
42.5°	8946.4	4099.1	658.2	392.6	321.0	281.7	254.0	235.6	219.4	207.8	203.2
45°	10274.2	4360.0	593.5	348.7	291.0	249.4	224.0	200.9	180.1	170.9	168.6
47.5°	11666.8	4611.7	535.8	314.1	258.6	221.7	194.0	168.6	150.1	143.2	140.9
50°	12521.2	4662.6	498.8	274.8	226.3	191.7	164.0	140.9	129.3	122.4	122.4
52.5°	12911.5	4581.7	448.0	240.2	196.3	168.6	140.9	122.4	115.5	110.8	108.5
55°	13184.0	4457.0	381.0	207.8	168.6	143.2	124.7	110.8	101.6	97.0	94.7
57°	13343.4	4288.4	330.2	182.4	145.5	124.7	110.8	99.3	90.1	80.8	80.8
57.5°	13350.3	4223.8	316.4	180.1	138.6	120.1	108.5	97.0	85.4	76.2	73.9
60°	13144.7	3780.4	254.0	152.4	110.8	101.6	90.1	76.2	60.0	50.8	48.5
62.5°	12484.3	3216.9	210.1	129.3	90.1	78.5	64.7	57.7	41.6	30.0	30.0
65°	11484.3	2609.6	180.1	103.9	73.9	57.7	43.9	41.6	25.4	13.9	11.5
67.5°	10038.7	2032.2	152.4	85.4	62.4	41.6	30.0	27.7	13.9	4.6	0.0
70°	7648.5	1385.6	127.0	69.3	46.2	30.0	20.8	16.2	9.2	2.3	0.0
72.5°	4408.5	762.1	106.2	53.1	34.6	23.1	16.2	9.2	9.2	0.0	0.0
75°	1575.0	327.9	80.8	39.3	27.7	18.5	11.5	4.6	6.9	2.3	0.0
77.5°	501.1	175.5	53.1	30.0	23.1	13.9	9.2	4.6	4.6	2.3	0.0
80°	147.8	92.4	32.3	25.4	16.2	11.5	6.9	2.3	4.6	2.3	0.0
82.5°	80.8	46.2	25.4	18.5	16.2	9.2	6.9	2.3	2.3	2.3	0.0
85°	41.6	27.7	20.8	18.5	16.2	9.2	6.9	2.3	0.0	2.3	2.3
87.5°	23.1	20.8	20.8	18.5	16.2	11.5	6.9	2.3	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)