

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: P529819

Luminaire Tested: **GALN-SA5A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12197 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

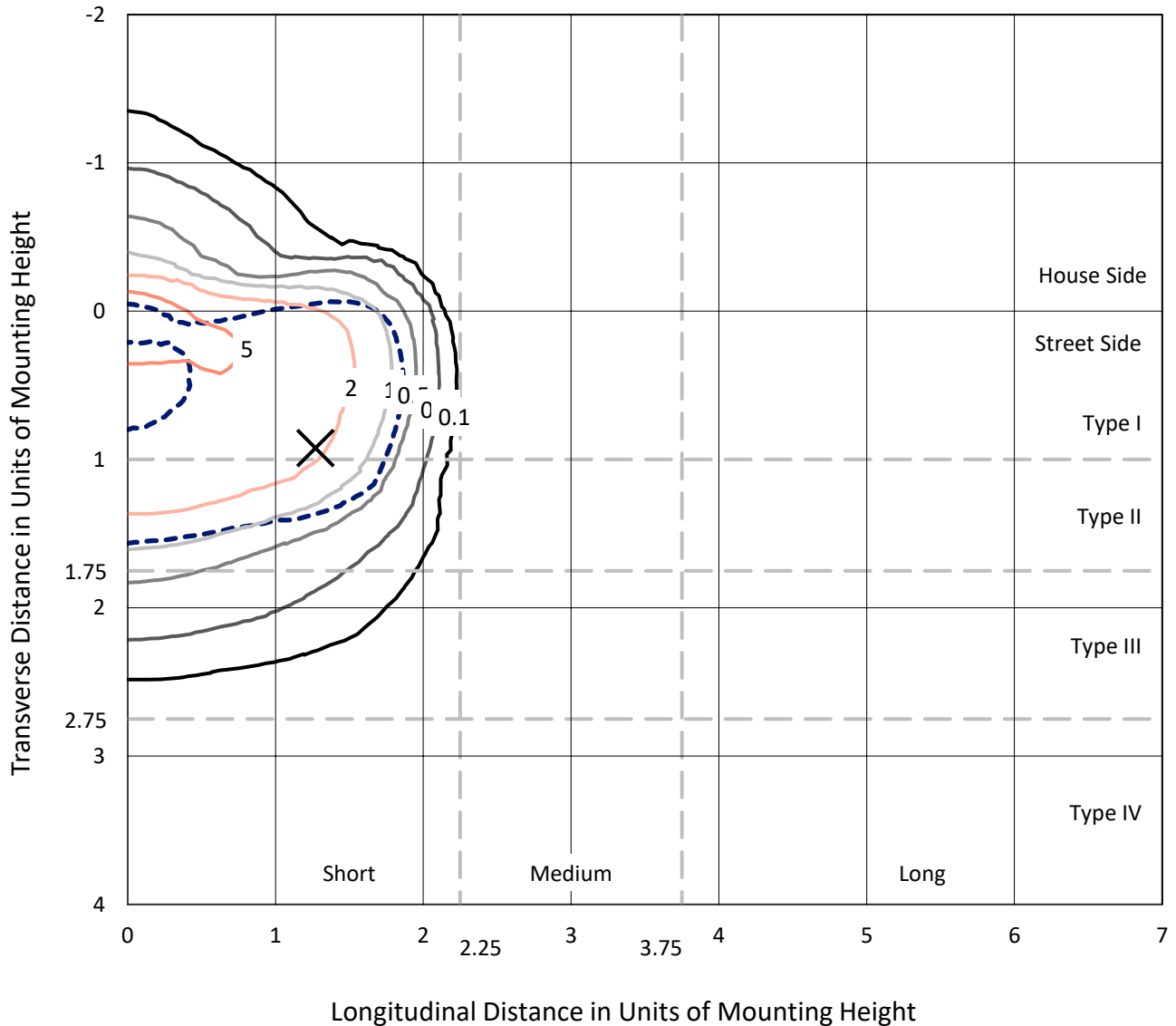
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

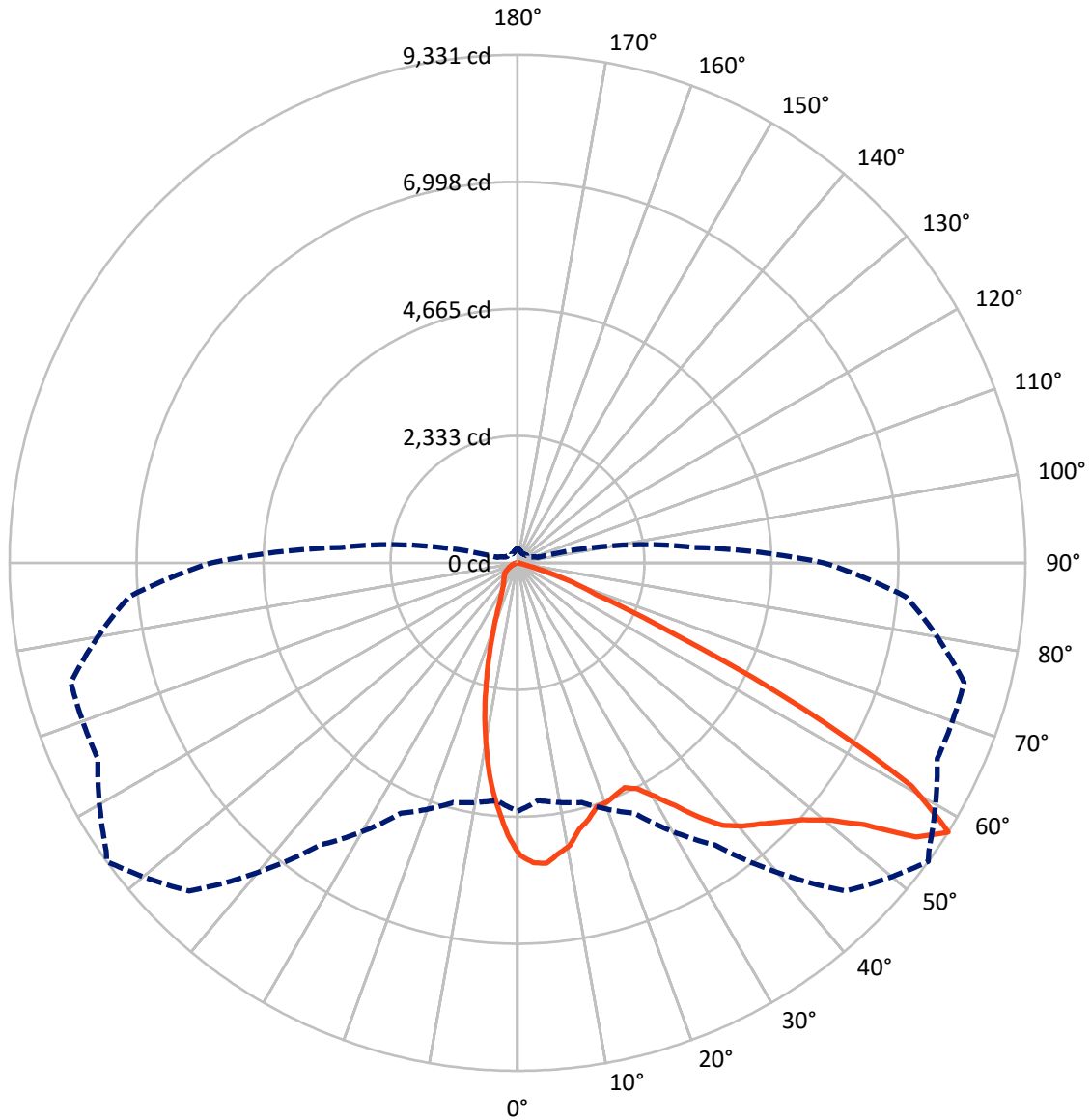
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1723.6	0.0	1723.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10473.4	0.0	10473.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	12197.0	0.0	12197.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.6	3.7
10°-20°	959.9	7.9
20°-30°	1272.1	10.4
30°-40°	1848.7	15.2
40°-50°	2741.4	22.5
50°-60°	3428.0	28.1
60°-70°	1352.2	11.1
70°-80°	134.6	1.1
80°-90°	10.5	0.1
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°	12197.0	100.0
0°-180°	12197.0	100.0

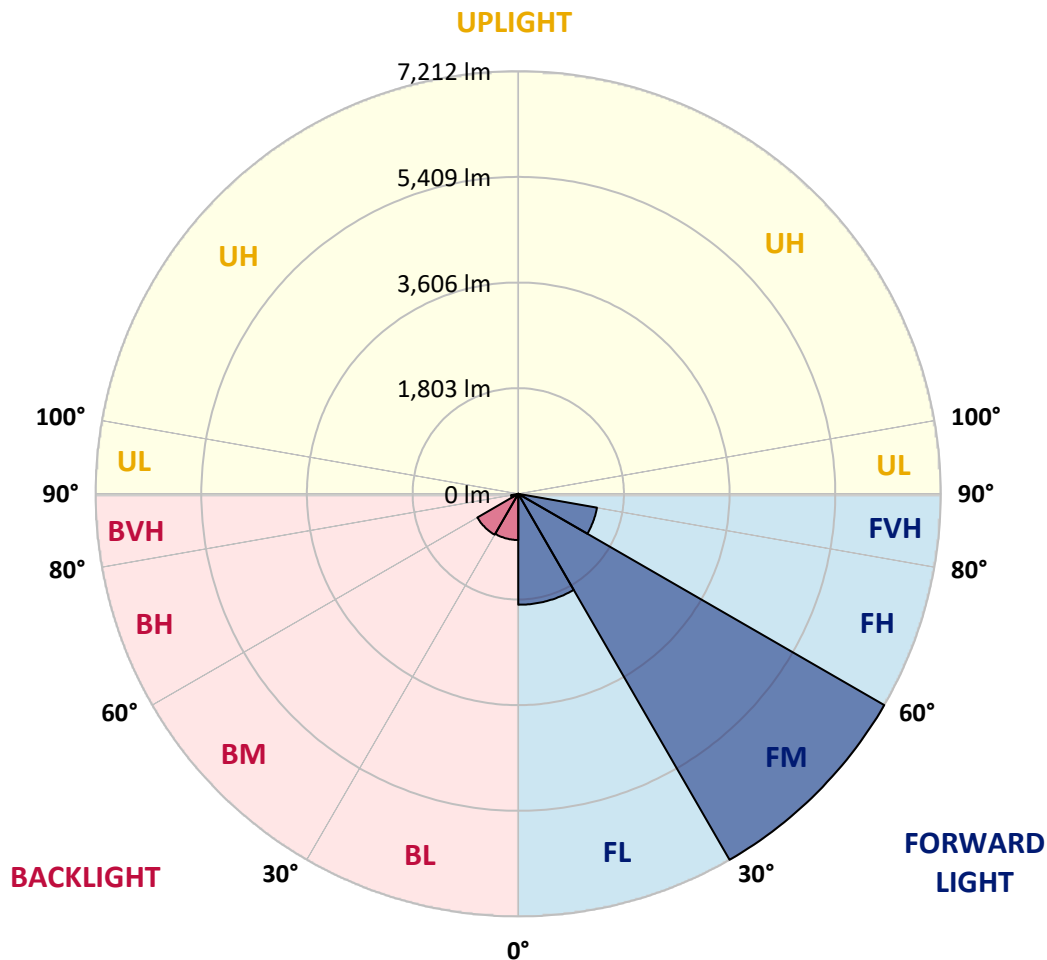


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.3	15.5			
FM (30°-60°)	7212.1	59.1			
FH (60°-80°)	1363.2	11.2			G1/1800
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	788.3	6.5	B2/1000		
BM (30°-60°)	806.0	6.6	B1/1000		
BH (60°-80°)	123.6	1.0	B1/500		G1/500
BVH (80°-90°)	5.7	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9
2.5°	5685.9	5627.0	5631.5	5611.1	5583.9	5604.3	5515.8	5536.2	5534.0	5413.8	5334.4
5°	5543.0	5606.5	5540.8	5595.2	5543.0	5599.7	5545.3	5504.5	5438.7	5350.3	5202.8
7.5°	5300.4	5239.1	5257.3	5325.3	5336.7	5463.7	5395.6	5447.8	5420.6	5245.9	5044.1
10°	4812.7	4799.1	4889.9	4980.6	5091.7	5227.8	5280.0	5250.5	5230.1	5164.3	4894.4
12.5°	4438.5	4477.1	4474.8	4624.5	4812.7	4889.9	5025.9	5021.4	5134.8	5012.3	4753.8
15°	4082.4	4102.9	4198.1	4291.1	4499.8	4719.8	4887.6	4910.3	5046.3	4960.2	4644.9
17.5°	3864.7	3835.2	3910.1	4021.2	4234.4	4522.4	4708.4	4762.8	4948.8	4930.7	4520.2
20°	3649.2	3649.2	3710.5	3842.0	4037.1	4361.4	4692.5	4676.7	4948.8	4896.7	4386.4
22.5°	3576.7	3613.0	3628.8	3728.6	3960.0	4238.9	4624.5	4654.0	4987.4	4880.8	4327.4
25°	3676.5	3628.8	3633.4	3712.8	3930.5	4180.0	4574.6	4640.4	5057.7	4960.2	4279.8
27.5°	3692.3	3740.0	3753.6	3808.0	3953.2	4198.1	4699.3	4833.2	5232.3	5146.1	4293.4
30°	3830.7	3878.3	3876.0	3969.0	4068.8	4345.5	4978.3	5005.5	5592.9	5379.7	4377.3
32.5°	3998.5	4048.4	4064.3	4173.2	4252.5	4615.4	5318.5	5388.8	5939.9	5747.2	4597.3
35°	4207.2	4189.0	4261.6	4370.5	4540.6	5010.1	5733.6	5851.5	6314.2	6223.5	4824.1
37.5°	4468.0	4445.3	4515.6	4692.5	4923.9	5477.3	6116.9	6194.0	6586.3	6665.7	5243.7
40°	4651.7	4660.8	4874.0	5112.1	5357.1	5921.8	6359.5	6434.4	6776.8	7078.5	5561.2
42.5°	4957.9	5014.6	5270.9	5561.2	5817.5	6255.2	6556.8	6629.4	6865.3	7409.6	5989.8
45°	5402.4	5377.5	5661.0	5985.3	6268.8	6602.2	6790.5	6765.5	6917.5	7738.5	6259.7
47.5°	5974.0	5978.5	6166.8	6443.4	6738.3	6903.9	7051.3	6962.8	7026.3	8085.5	6620.4
50°	6364.1	6398.1	6550.0	6833.5	6981.0	7235.0	7423.2	7368.8	7348.4	8294.2	6847.2
52.5°	6463.9	6565.9	6647.6	7001.4	7346.1	7747.6	7988.0	8103.6	7740.8	8364.5	7135.2
55°	5710.9	5801.6	6089.6	6575.0	7484.5	8559.5	8890.6	8892.9	8253.3	8677.4	7337.0
57.5°	4565.5	4381.8	4558.7	5073.6	6327.8	8525.5	9330.6	9224.0	8509.6	8493.7	7162.4
60°	3157.1	3111.7	3123.1	3327.2	4379.5	6781.4	8314.6	8452.9	7836.0	7362.0	5670.1
62.5°	2501.6	2463.1	2413.2	2390.5	2719.4	4225.3	5865.1	6060.2	5479.5	4774.2	3361.2
65°	1959.6	1936.9	1943.7	2034.4	2032.1	2397.3	3207.0	3127.6	2503.9	1850.7	1056.9
67.5°	1322.3	1356.3	1383.5	1657.9	1798.5	1669.3	1549.1	1503.7	814.2	342.5	233.6
70°	743.9	748.4	777.9	1036.5	1365.3	1295.0	1068.2	1068.2	406.0	124.7	133.8
72.5°	406.0	392.4	365.2	446.8	607.8	616.9	476.3	415.0	120.2	81.6	74.8
75°	197.3	195.0	167.8	138.3	131.5	108.9	83.9	77.1	54.4	52.2	45.4
77.5°	40.8	38.6	20.4	20.4	22.7	24.9	31.8	31.8	38.6	38.6	31.8
80°	0.0	0.0	2.3	9.1	15.9	22.7	27.2	27.2	31.8	31.8	24.9
82.5°	0.0	0.0	2.3	6.8	13.6	20.4	24.9	27.2	31.8	34.0	27.2
85°	0.0	0.0	0.0	4.5	11.3	15.9	13.6	13.6	11.3	9.1	4.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9	5372.9
2.5°	5293.6	5289.0	5184.7	5125.7	5019.1	4926.1	4851.3	4796.9	4796.9	4762.8	4731.1
5°	5143.9	5105.3	4883.1	4740.2	4538.3	4388.6	4286.6	4207.2	4082.4	4116.5	3982.6
7.5°	4957.9	4860.4	4565.5	4347.8	4068.8	3855.6	3637.9	3445.1	3259.1	3175.2	3220.6
10°	4758.3	4588.2	4191.3	3846.6	3499.6	3109.5	2855.4	2547.0	2356.5	2345.1	2295.2
12.5°	4547.4	4354.6	3871.5	3395.2	2939.4	2469.9	2082.0	1794.0	1664.7	1521.8	1549.1
15°	4388.6	4102.9	3515.4	2941.6	2336.1	1862.0	1471.9	1249.7	1127.2	1093.2	1081.8
17.5°	4216.3	3910.1	3152.5	2458.5	1832.6	1340.4	1059.2	952.6	904.9	904.9	898.1
20°	4037.1	3692.3	2791.9	2009.5	1374.4	1000.2	848.2	814.2	812.0	809.7	809.7
22.5°	3919.1	3442.9	2465.3	1596.7	1036.5	800.6	737.1	723.5	732.6	759.8	759.8
25°	3794.4	3202.4	2104.7	1231.5	802.9	687.2	650.9	660.0	682.7	707.6	698.6
27.5°	3667.4	3046.0	1764.5	966.2	657.7	601.0	587.4	607.8	632.8	655.5	648.7
30°	3637.9	2878.1	1442.5	732.6	564.7	523.9	533.0	551.1	576.1	585.1	594.2
32.5°	3683.3	2746.6	1181.6	601.0	492.2	480.8	480.8	489.9	505.8	526.2	519.4
35°	3812.5	2671.7	934.4	521.6	451.3	440.0	437.7	446.8	455.9	462.7	455.9
37.5°	4009.9	2612.8	764.3	462.7	424.1	406.0	401.4	399.2	408.2	410.5	415.0
40°	4261.6	2644.5	648.7	426.4	396.9	376.5	362.9	362.9	362.9	369.7	372.0
42.5°	4533.8	2687.6	560.2	406.0	372.0	347.0	333.4	328.9	333.4	342.5	340.2
45°	4819.5	2771.5	503.5	374.2	349.3	317.5	299.4	294.8	306.2	324.3	322.1
47.5°	5087.2	2891.7	460.4	353.8	326.6	297.1	274.4	269.9	290.3	315.3	317.5
50°	5354.8	3100.4	444.5	337.9	310.7	276.7	256.3	251.8	274.4	306.2	313.0
52.5°	5663.2	3324.9	433.2	317.5	292.6	260.8	238.1	233.6	258.6	299.4	301.6
55°	5865.1	3515.4	424.1	281.2	258.6	235.9	217.7	215.5	242.7	279.0	288.0
57.5°	5629.2	3250.1	392.4	244.9	220.0	208.7	192.8	192.8	215.5	249.5	256.3
60°	4268.4	2138.7	279.0	197.3	186.0	179.2	172.4	172.4	190.5	215.5	217.7
62.5°	2499.4	1152.2	179.2	158.8	158.8	152.0	140.6	140.6	158.8	172.4	174.6
65°	741.6	369.7	145.2	136.1	133.8	122.5	111.1	108.9	122.5	129.3	127.0
67.5°	213.2	170.1	120.2	113.4	111.1	93.0	86.2	83.9	86.2	81.6	79.4
70°	127.0	115.7	93.0	95.3	83.9	68.0	61.2	59.0	54.4	47.6	43.1
72.5°	70.3	70.3	68.0	72.6	59.0	45.4	38.6	31.8	24.9	20.4	18.1
75°	43.1	45.4	47.6	49.9	38.6	29.5	24.9	15.9	9.1	4.5	4.5
77.5°	29.5	31.8	34.0	36.3	31.8	27.2	20.4	11.3	2.3	0.0	0.0
80°	22.7	24.9	29.5	31.8	34.0	36.3	27.2	11.3	2.3	0.0	0.0
82.5°	24.9	27.2	34.0	31.8	31.8	31.8	24.9	11.3	2.3	0.0	0.0
85°	4.5	6.8	11.3	11.3	15.9	20.4	15.9	4.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)