

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: P453905

Luminaire Tested: **GALN-SA5A-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15692 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

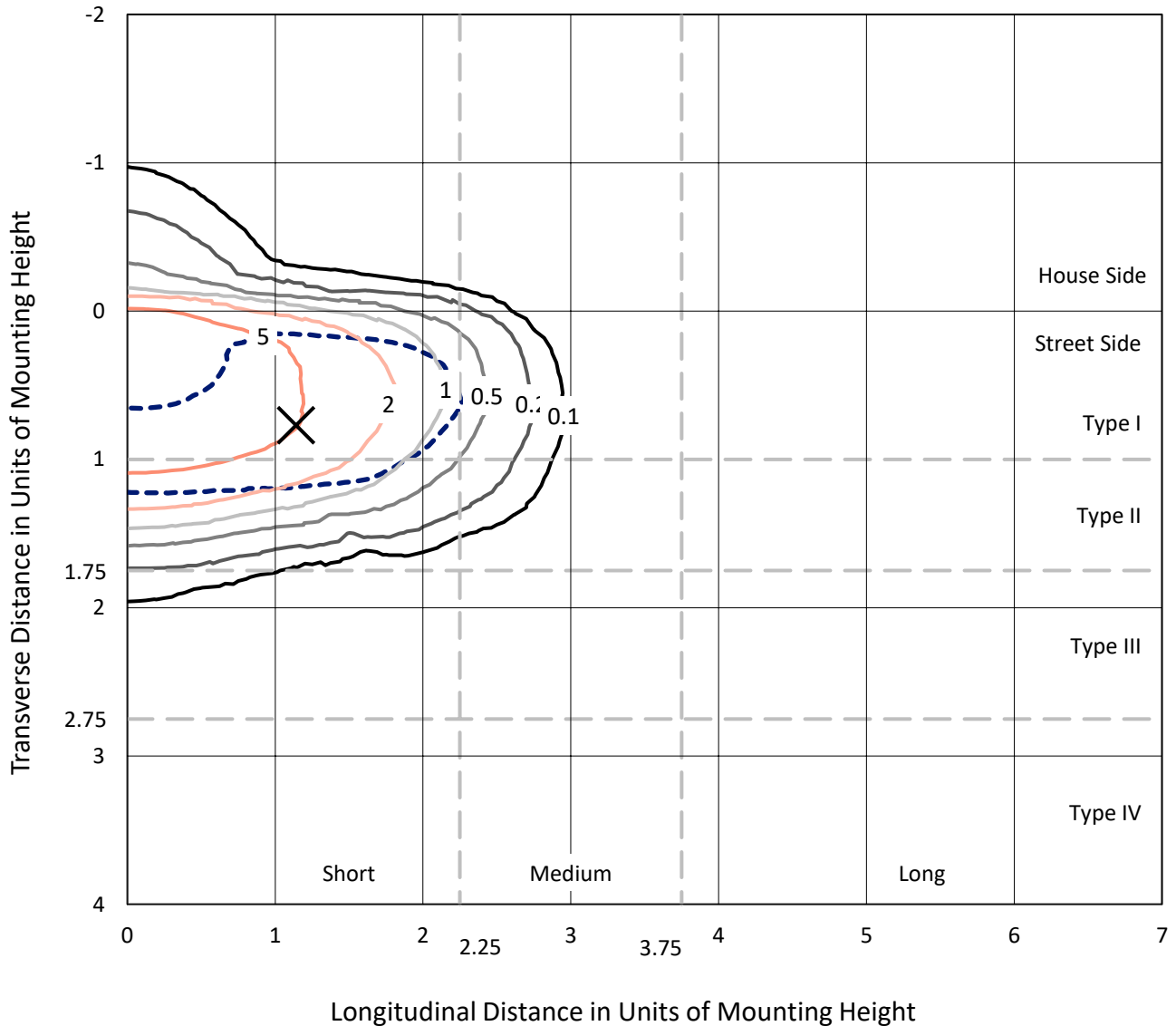
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

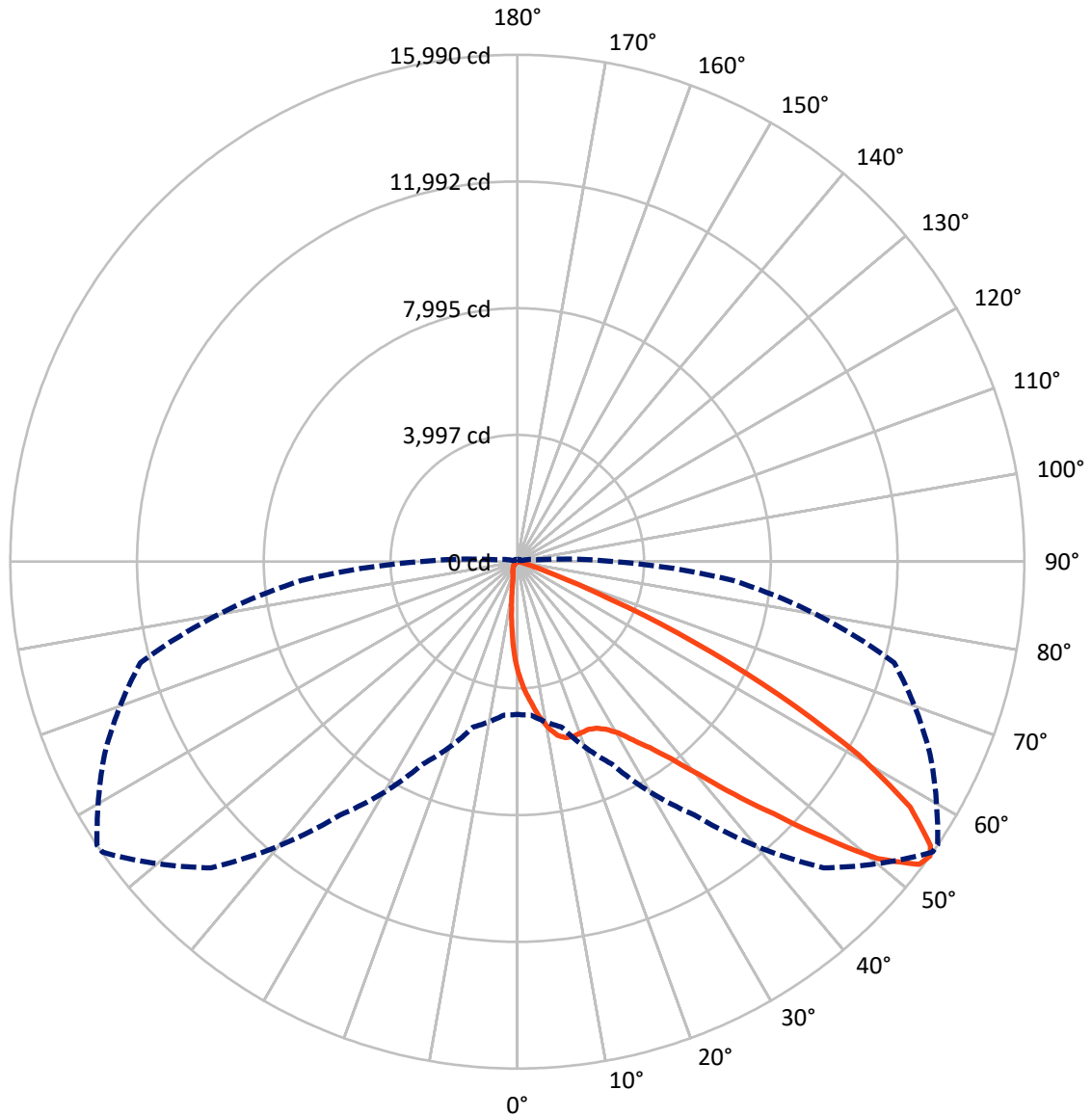
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.0	0.0	742.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	14950.0	0.0	14950.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	15692.0	0.0	15692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	2.0
10°-20°	832.8	5.3
20°-30°	1442.4	9.2
30°-40°	2489.8	15.9
40°-50°	4237.7	27.0
50°-60°	4193.7	26.7
60°-70°	1914.1	12.2
70°-80°	245.8	1.6
80°-90°	27.7	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°	15692.0	100.0
0°-180°	15692.0	100.0

Coefficient of Utilization



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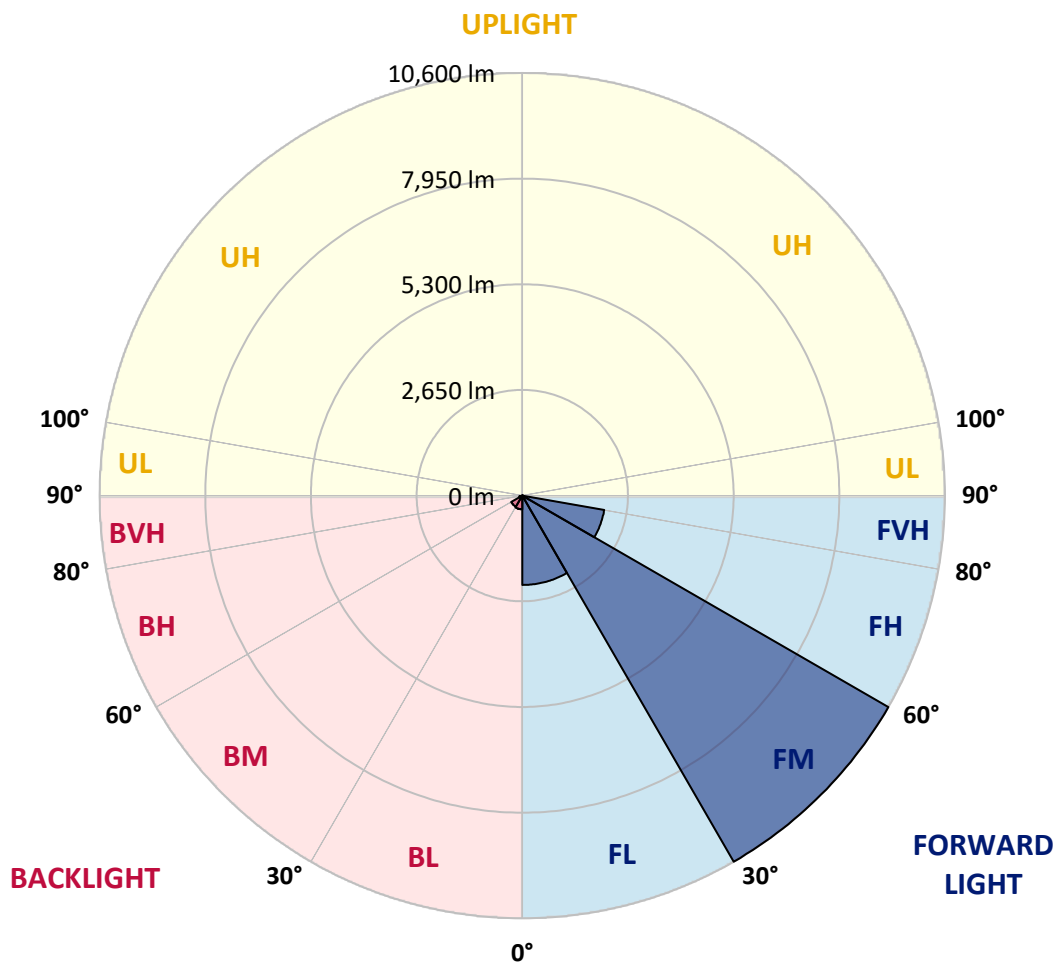
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.1	14.3			
FM (30°-60°)	10599.5	67.5			
FH (60°-80°)	2085.6	13.3			G2/5000
FVH (80°-90°)	24.7	0.2			G1/100
BL (0°-30°)	343.2	2.2	B1/500		
BM (30°-60°)	321.6	2.0	B1/1000		
BH (60°-80°)	74.3	0.5	B0/110		G0/110
BVH (80°-90°)	3.0	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°	56°	65°	75°	85°
0°	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3
2.5°	4430.7	4400.0	4357.6	4324.8	4247.5	4136.4	4018.8	4018.8	3905.6	3747.8	3586.9
5°	5110.4	5090.2	5049.0	4964.3	4877.4	4721.8	4485.7	4444.4	4242.2	3956.4	3655.7
7.5°	5386.7	5396.2	5398.3	5376.1	5334.8	5181.3	4947.3	4918.7	4595.8	4212.6	3745.7
10°	5122.0	5168.6	5214.1	5306.2	5436.4	5473.5	5341.2	5311.5	4993.9	4472.0	3843.1
12.5°	4728.2	4753.6	4779.0	4924.0	5185.5	5485.1	5623.8	5622.8	5353.9	4730.3	3967.0
15°	4545.0	4567.2	4569.4	4633.9	4860.5	5296.7	5744.5	5760.4	5705.4	5049.0	4100.4
17.5°	4583.1	4601.1	4586.3	4602.2	4720.8	5089.2	5730.8	5783.7	5990.1	5354.9	4221.1
20°	4831.9	4866.9	4809.7	4765.2	4801.2	5034.1	5684.2	5758.3	6191.3	5653.5	4331.2
22.5°	5278.7	5297.8	5225.8	5104.0	5040.5	5149.5	5671.5	5744.5	6362.8	5898.0	4394.7
25°	5775.2	5768.9	5689.5	5552.9	5419.5	5382.4	5755.1	5820.8	6504.7	6118.2	4413.7
27.5°	6271.8	6290.8	6157.4	5988.0	5828.2	5731.8	5942.5	5991.2	6664.5	6369.2	4437.0
30°	6848.8	6818.1	6686.8	6493.0	6309.9	6175.4	6244.2	6258.0	6884.8	6701.6	4498.4
32.5°	7599.4	7514.7	7367.5	7028.7	6897.5	6669.8	6686.8	6703.7	7152.6	7030.9	4572.5
35°	8617.8	8613.6	8325.6	7869.3	7549.6	7266.9	7192.8	7206.6	7558.1	7520.0	4736.6
37.5°	9843.8	9860.8	9532.6	9073.1	8484.5	8035.6	7883.1	7885.2	8174.3	8195.4	4986.5
40°	10842.2	10886.7	10690.8	10380.6	9799.4	9097.4	8841.2	8817.9	9040.3	9013.8	5343.3
42.5°	11272.0	11313.3	11386.4	11494.3	11174.6	10595.5	9991.0	10022.7	10090.5	9905.2	5743.5
45°	11061.3	11127.0	11413.9	12080.9	12381.5	12186.7	11465.8	11354.6	11067.7	10873.9	6145.8
47.5°	10183.7	10343.5	10823.1	11933.7	12986.1	13644.6	13130.0	12982.9	12045.9	11581.2	6402.0
50°	8740.7	8750.2	9418.2	10837.9	12672.7	14564.6	14829.3	14719.2	12957.5	11978.2	6531.1
52.5°	6336.3	6544.9	7156.8	8801.0	11315.4	14424.8	15912.3	15866.8	13897.6	12181.4	6717.5
54°	4817.1	4857.3	5401.5	7033.0	9756.0	13657.3	15979.0	15989.6	14364.5	12304.3	6827.6
55°	3949.0	3852.6	4424.3	5991.2	8692.0	12978.6	15760.9	15811.7	14574.1	12367.8	6909.1
57.5°	1871.8	1872.8	2310.1	3160.2	5443.9	10077.8	14428.0	14608.0	14597.4	12476.8	7160.0
60°	947.5	953.9	1050.2	1458.9	2689.1	6699.5	11929.5	12358.2	13474.1	12492.7	7242.6
62.5°	662.7	655.3	639.5	701.9	1131.8	3404.8	8881.5	9254.1	11447.8	11888.2	6980.0
65°	567.5	551.6	507.1	497.6	571.7	1356.2	5531.7	6139.4	8740.7	10293.8	6232.6
67.5°	484.9	478.5	438.3	414.0	404.4	590.8	2854.3	3174.0	5974.3	7399.3	4720.8
70°	411.8	408.7	384.3	353.6	327.1	353.6	1058.7	1311.7	3329.6	3983.9	2227.5
72.5°	334.6	337.7	342.0	302.8	275.3	250.9	452.1	526.2	1393.3	1424.0	779.2
75°	293.3	290.1	290.1	263.6	229.7	186.3	248.8	267.9	426.7	396.0	181.0
77.5°	206.4	199.0	232.9	217.0	191.6	132.3	141.9	150.3	176.8	151.4	84.7
80°	142.9	142.9	149.3	194.8	172.6	96.3	86.8	93.2	104.8	90.0	48.7
82.5°	80.5	82.6	97.4	103.8	100.6	64.6	57.2	58.2	69.9	61.4	30.7
85°	9.5	15.9	56.1	55.1	41.3	28.6	31.8	32.8	43.4	38.1	18.0
87.5°	1.1	2.1	11.6	14.8	10.6	11.6	11.6	11.6	14.8	16.9	12.7
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°	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3	3486.3
2.5°	3500.1	3419.6	3228.0	3005.7	2863.8	2633.0	2438.2	2297.4	2262.4	2194.7	2214.8
5°	3495.8	3328.6	2937.9	2525.0	2084.6	1756.4	1511.8	1319.1	1234.4	1178.3	1139.2
7.5°	3498.0	3236.5	2609.7	1952.2	1426.1	1104.2	877.7	760.1	681.8	649.0	653.2
10°	3504.3	3132.7	2228.6	1446.2	962.4	713.6	574.9	518.8	492.3	488.1	487.0
12.5°	3519.1	3019.4	1864.4	1073.5	673.3	518.8	465.8	446.8	438.3	438.3	435.1
15°	3535.0	2894.5	1561.6	798.3	518.8	445.7	421.4	411.8	406.5	406.5	405.5
17.5°	3535.0	2750.5	1278.9	619.3	446.8	409.7	390.7	378.0	373.7	373.7	372.7
20°	3512.8	2583.2	1028.0	498.6	405.5	375.8	356.8	343.0	337.7	335.6	334.6
22.5°	3435.5	2359.9	818.4	428.8	371.6	346.2	321.8	306.0	301.7	299.6	300.7
25°	3297.9	2107.9	647.9	376.9	340.9	310.2	289.0	277.4	273.1	273.1	274.2
27.5°	3156.0	1844.3	513.5	337.7	303.8	276.3	259.4	252.0	250.9	254.1	255.1
30°	3024.7	1579.6	416.1	306.0	271.0	247.7	236.1	234.0	234.0	235.0	236.1
32.5°	2878.6	1347.7	348.3	278.4	244.6	224.4	218.1	218.1	220.2	220.2	222.3
35°	2786.5	1148.7	306.0	252.0	224.4	207.5	203.3	204.3	207.5	211.7	213.9
37.5°	2736.7	989.9	278.4	230.8	205.4	193.7	189.5	191.6	199.0	206.4	207.5
40°	2741.0	870.3	256.2	212.8	190.6	177.9	174.7	181.0	188.4	195.9	196.9
42.5°	2787.6	781.3	235.0	191.6	177.9	159.9	158.8	165.2	168.3	175.7	176.8
45°	2842.6	716.7	212.8	169.4	154.6	138.7	139.7	145.0	149.3	160.9	163.0
47.5°	2859.6	672.3	187.4	144.0	127.0	121.8	122.8	126.0	134.5	145.0	146.1
50°	2878.6	644.8	163.0	121.8	108.0	106.9	108.0	110.1	115.4	119.6	118.6
52.5°	2960.1	643.7	142.9	105.9	92.1	94.2	95.3	94.2	90.0	83.6	81.5
54°	3036.4	646.9	133.4	98.5	84.7	87.9	86.8	81.5	70.9	64.6	61.4
55°	3097.8	650.0	128.1	93.2	80.5	81.5	82.6	72.0	58.2	51.9	49.8
57.5°	3218.5	642.6	115.4	81.5	70.9	66.7	65.6	47.6	31.8	27.5	25.4
60°	3158.1	580.2	104.8	69.9	60.3	54.0	44.5	26.5	15.9	11.6	11.6
62.5°	2921.0	492.3	93.2	57.2	49.8	41.3	23.3	14.8	7.4	4.2	3.2
65°	2612.9	414.0	83.6	45.5	39.2	26.5	12.7	9.5	3.2	0.0	0.0
67.5°	1942.7	307.0	70.9	36.0	29.6	16.9	8.5	5.3	1.1	0.0	0.0
70°	899.9	187.4	60.3	27.5	21.2	12.7	6.4	3.2	0.0	0.0	0.0
72.5°	258.3	117.5	49.8	20.1	14.8	10.6	5.3	2.1	1.1	0.0	0.0
75°	90.0	94.2	37.1	14.8	11.6	7.4	4.2	2.1	1.1	0.0	0.0
77.5°	54.0	76.2	23.3	12.7	9.5	6.4	4.2	2.1	1.1	1.1	0.0
80°	30.7	50.8	14.8	10.6	8.5	5.3	3.2	2.1	1.1	1.1	0.0
82.5°	16.9	24.4	11.6	9.5	7.4	5.3	3.2	2.1	1.1	1.1	1.1
85°	13.8	12.7	9.5	8.5	6.4	4.2	3.2	1.1	0.0	0.0	0.0
87.5°	10.6	8.5	8.5	8.5	6.4	4.2	3.2	1.1	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)