

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: P527525

Luminaire Tested: **GALN-SA2C-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10546 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

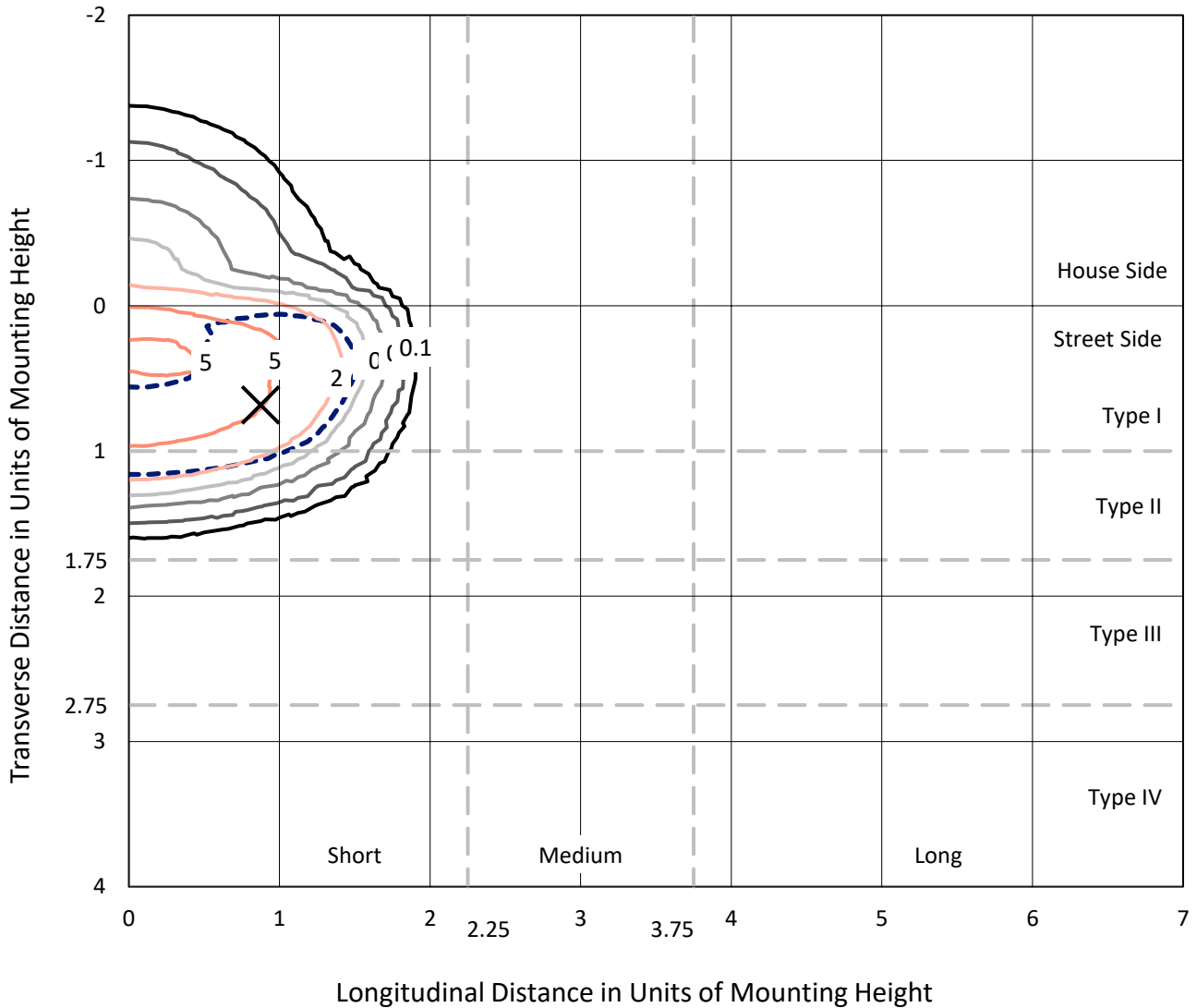
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

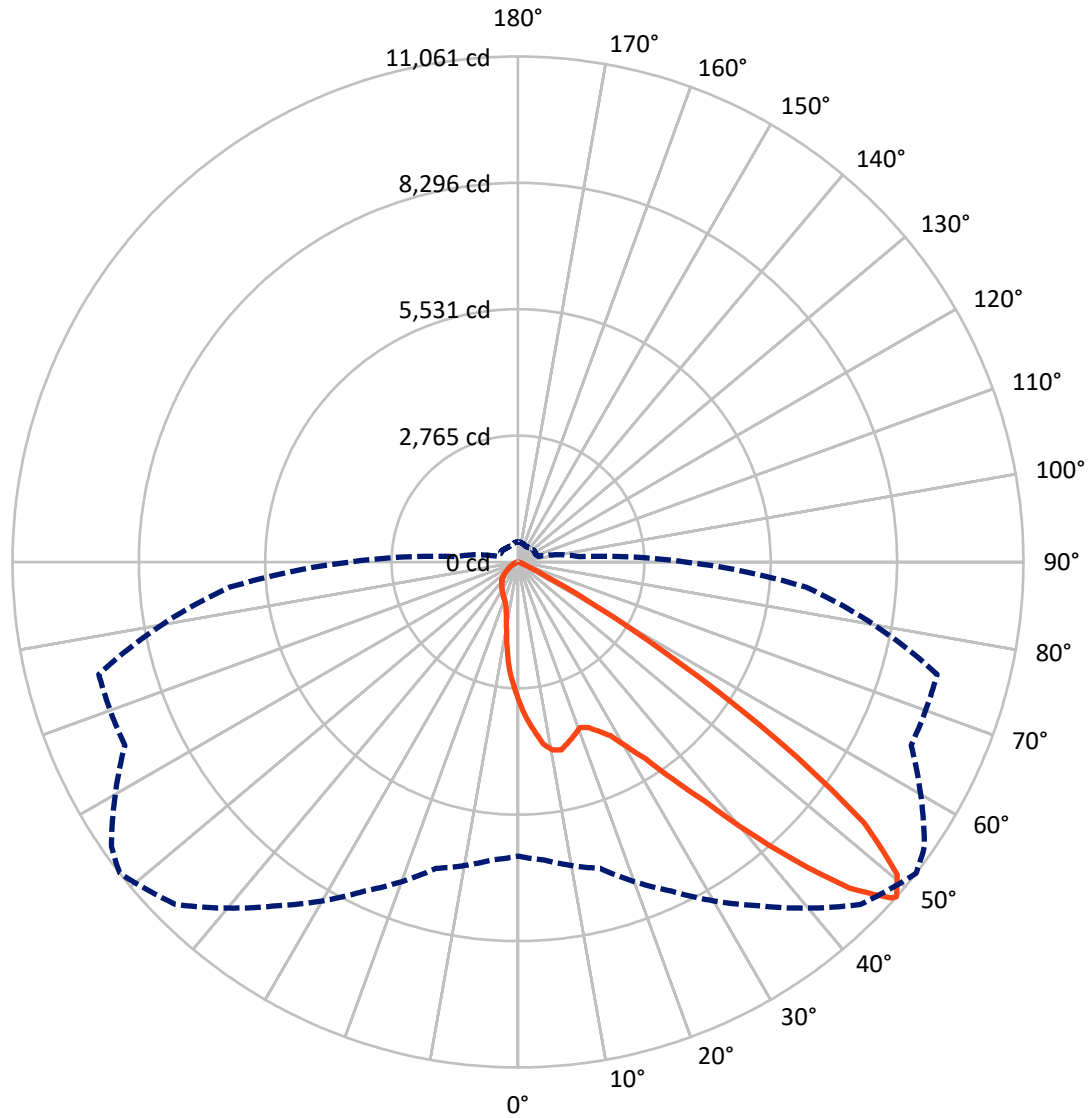
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1284.1	0.0	1284.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9261.9	0.0	9261.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	10546.0	0.0	10546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	2.6
10°-20°	728.5	6.9
20°-30°	1243.8	11.8
30°-40°	2290.5	21.7
40°-50°	3557.1	33.7
50°-60°	2140.8	20.3
60°-70°	247.6	2.3
70°-80°	47.9	0.5
80°-90°	11.1	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°	10546.0	100.0
0°-180°	10546.0	100.0

Coefficient of Utilization



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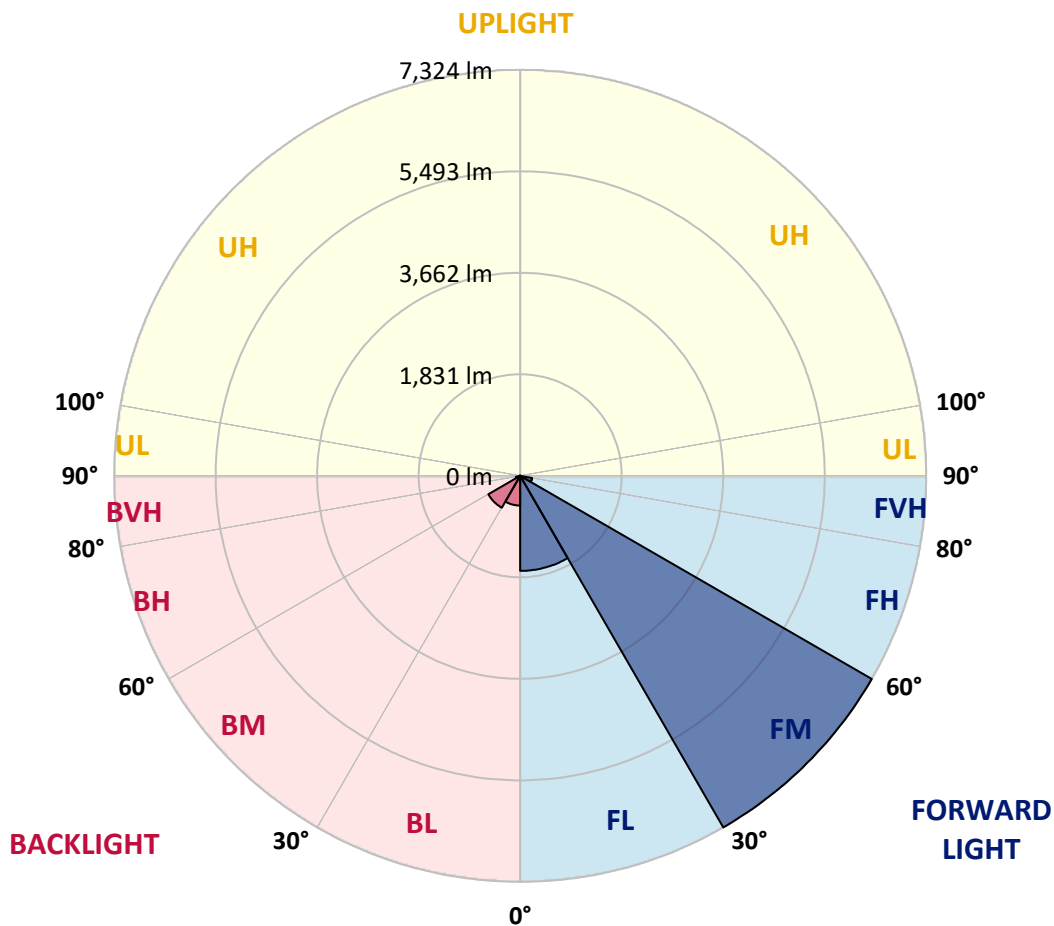
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.6	16.3			
FM (30°-60°)	7324.0	69.4			
FH (60°-80°)	218.0	2.1			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	536.4	5.1	B2/1000		
BM (30°-60°)	664.4	6.3	B1/1000		
BH (60°-80°)	77.5	0.7	B0/110		G0/110
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5
2.5°	3691.2	3606.6	3614.3	3559.0	3526.7	3474.4	3403.7	3389.9	3313.0	3208.5	3102.4
5°	4023.3	4003.3	4029.4	3949.5	3952.6	3866.5	3700.4	3703.5	3526.7	3356.1	3191.6
7.5°	4044.8	3998.7	4024.8	4095.5	4137.0	4121.7	4027.9	3946.4	3778.8	3528.2	3288.4
10°	3622.0	3709.6	3737.3	3854.2	4020.2	4195.5	4184.7	4189.3	4049.4	3721.9	3371.4
12.5°	3368.4	3309.9	3403.7	3474.4	3725.0	4064.8	4220.1	4253.9	4264.6	3909.5	3454.4
15°	3253.1	3253.1	3268.4	3288.4	3469.8	3783.4	4100.1	4198.5	4430.7	4155.5	3585.1
17.5°	3325.3	3322.2	3343.8	3302.2	3369.9	3611.3	3989.4	4101.7	4616.7	4396.8	3688.1
20°	3545.2	3555.9	3542.1	3422.2	3426.8	3608.2	3866.5	4043.3	4742.8	4605.9	3825.0
22.5°	3851.1	3857.2	3778.8	3648.2	3609.7	3698.9	3937.2	4072.5	4844.2	4856.5	3866.5
25°	4204.7	4180.1	4164.7	3980.2	3863.4	3940.3	4097.1	4175.5	4907.3	5071.7	3984.8
27.5°	4695.1	4645.9	4552.1	4387.6	4301.5	4192.4	4304.6	4433.7	5087.1	5373.1	4114.0
30°	5419.2	5376.1	5193.2	4981.0	4755.1	4647.4	4682.8	4753.5	5411.5	5722.1	4284.6
32.5°	6509.2	6418.5	6154.1	5749.7	5442.3	5145.5	5136.3	5211.6	5702.1	6204.8	4487.6
35°	7709.9	7682.2	7293.2	6876.6	6281.7	5823.5	5831.2	5871.2	6258.6	6838.2	4753.5
37.5°	8507.7	8659.9	8412.4	7965.1	7465.4	6810.5	6644.5	6658.3	7022.7	7588.4	5233.2
40°	9124.2	8995.1	9024.3	8919.8	8578.5	8132.6	7765.2	7692.9	7906.6	8418.6	5709.8
42.5°	8855.2	8861.3	9041.2	9288.7	9373.3	9341.0	8965.9	8829.1	8663.0	9098.1	6163.3
45°	8095.7	8254.1	8487.8	9142.7	9717.7	10257.3	10183.5	9955.9	9185.7	9636.2	6424.6
47.5°	6884.3	6878.1	7261.0	8112.6	9390.2	10653.9	10989.0	10829.2	9556.2	9576.2	6370.8
48°	6436.9	6547.6	6942.7	7945.1	9182.6	10595.5	11061.3	10859.9	9493.2	9496.3	6324.7
50°	4758.1	4738.1	5230.1	6460.0	8201.8	9955.9	10756.9	10913.7	9491.7	9091.9	6001.9
52.5°	2513.6	2599.7	2957.9	4061.7	5798.9	8148.0	9488.6	9733.0	9156.5	8430.9	5537.6
55°	1068.5	965.5	1240.6	1834.1	3262.3	5443.8	6961.2	7505.4	7742.1	7460.8	4844.2
57.5°	381.3	416.6	479.7	690.3	1371.3	2979.4	4150.9	4573.6	5363.8	5474.5	3300.7
60°	244.4	249.1	269.0	316.7	515.0	1148.4	1969.4	2306.0	2664.2	2750.3	1540.4
62.5°	189.1	190.6	199.9	207.5	244.4	445.8	739.5	876.3	910.1	782.5	404.3
65°	158.3	159.9	163.0	163.0	173.7	209.1	258.3	284.4	276.7	273.7	229.1
67.5°	121.5	124.5	130.7	130.7	136.8	127.6	143.0	152.2	172.2	209.1	195.2
70°	95.3	96.9	101.5	104.5	104.5	92.2	103.0	112.2	126.1	155.3	153.7
72.5°	73.8	76.9	79.9	79.9	75.3	63.0	73.8	81.5	90.7	107.6	104.5
75°	56.9	56.9	58.4	47.7	36.9	32.3	44.6	53.8	67.6	70.7	58.4
77.5°	15.4	16.9	15.4	13.8	15.4	23.1	29.2	33.8	43.0	43.0	38.4
80°	0.0	1.5	4.6	9.2	15.4	21.5	26.1	29.2	33.8	36.9	35.4
82.5°	0.0	1.5	4.6	9.2	13.8	16.9	23.1	24.6	27.7	32.3	32.3
85°	0.0	1.5	3.1	6.1	9.2	10.8	10.8	9.2	9.2	7.7	6.1
87.5°	0.0	0.0	1.5	3.1	3.1	4.6	4.6	4.6	4.6	4.6	4.6
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°	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5	3045.5
2.5°	3060.9	3013.2	2941.0	2827.2	2718.1	2647.3	2579.7	2504.4	2462.9	2459.8	2436.7
5°	3097.8	2990.2	2818.0	2622.7	2413.7	2233.8	2052.4	1934.0	1827.9	1769.5	1758.7
7.5°	3117.8	2977.9	2699.6	2372.1	2015.5	1721.8	1518.9	1369.8	1311.4	1268.3	1266.8
10°	3159.3	2956.3	2522.8	2040.1	1598.9	1302.1	1162.2	1094.6	1062.3	1050.0	1031.6
12.5°	3190.0	2916.4	2341.4	1698.8	1263.7	1079.2	1017.7	1002.4	1003.9	1010.0	1002.4
15°	3233.1	2881.0	2097.0	1394.4	1060.8	971.6	971.6	974.7	996.2	999.3	997.7
17.5°	3230.0	2811.8	1844.8	1148.4	937.8	925.5	930.1	959.3	973.1	977.8	967.0
20°	3266.9	2747.3	1585.0	980.8	868.6	887.1	917.8	925.5	942.4	945.5	933.2
22.5°	3256.1	2585.8	1343.7	848.6	816.3	851.7	882.4	891.7	887.1	877.8	876.3
25°	3236.1	2447.5	1122.3	761.0	777.9	816.3	845.5	828.6	819.4	821.0	822.5
27.5°	3200.8	2272.2	939.3	699.5	725.6	782.5	781.0	774.8	784.1	776.4	784.1
30°	3194.6	2097.0	788.7	644.2	687.2	728.7	731.8	742.5	753.3	739.5	753.3
32.5°	3203.9	1904.8	681.1	610.3	664.1	665.7	699.5	710.3	702.6	671.8	674.9
35°	3274.6	1757.2	602.6	591.9	627.2	628.8	661.1	647.2	613.4	595.0	605.7
37.5°	3423.7	1634.2	565.7	575.0	578.0	598.0	599.6	571.9	575.0	573.4	579.6
40°	3614.3	1540.4	539.6	559.6	556.5	570.4	515.0	530.4	544.2	548.8	551.9
42.5°	3745.0	1472.8	522.7	535.0	528.9	504.3	473.5	488.9	499.6	516.6	519.6
45°	3803.4	1419.0	502.7	492.0	492.0	447.4	435.1	438.1	462.7	481.2	478.1
47.5°	3708.1	1366.7	467.4	435.1	445.8	408.9	395.1	395.1	421.2	444.3	439.7
48°	3671.2	1345.2	468.9	422.8	430.5	402.8	389.0	385.9	415.1	436.6	436.6
50°	3488.3	1265.2	428.9	389.0	373.6	370.5	361.3	364.4	382.8	402.8	402.8
52.5°	3131.6	1093.1	362.8	333.6	305.9	324.4	329.0	322.8	332.1	350.5	349.0
55°	2613.5	839.4	290.6	276.7	255.2	275.2	284.4	276.7	267.5	281.3	281.3
57.5°	1674.2	452.0	232.1	235.2	213.7	233.7	241.4	222.9	206.0	216.8	215.2
60°	754.8	270.6	190.6	186.0	172.2	195.2	207.5	186.0	163.0	170.6	178.3
62.5°	282.9	192.2	144.5	141.4	138.4	159.9	166.0	149.1	126.1	130.7	132.2
65°	207.5	169.1	115.3	104.5	110.7	126.1	123.0	106.1	90.7	90.7	93.8
67.5°	176.8	147.6	93.8	81.5	81.5	83.0	76.9	67.6	63.0	66.1	69.2
70°	138.4	116.8	73.8	63.0	56.9	50.7	44.6	43.0	38.4	43.0	41.5
72.5°	89.2	78.4	56.9	47.7	43.0	35.4	29.2	27.7	23.1	21.5	21.5
75°	47.7	47.7	44.6	38.4	33.8	27.7	23.1	18.4	12.3	9.2	9.2
77.5°	33.8	36.9	40.0	36.9	30.7	23.1	18.4	12.3	6.1	3.1	3.1
80°	32.3	36.9	40.0	35.4	30.7	23.1	16.9	9.2	4.6	1.5	1.5
82.5°	29.2	33.8	36.9	32.3	27.7	20.0	15.4	9.2	4.6	1.5	1.5
85°	6.1	7.7	9.2	9.2	10.8	13.8	10.8	7.7	3.1	1.5	1.5
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	3.1	3.1	1.5	1.5	1.5
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)