

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: P527759

Luminaire Tested: **GALN-SA2D-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527759
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-SA2D-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA 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: 11605 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

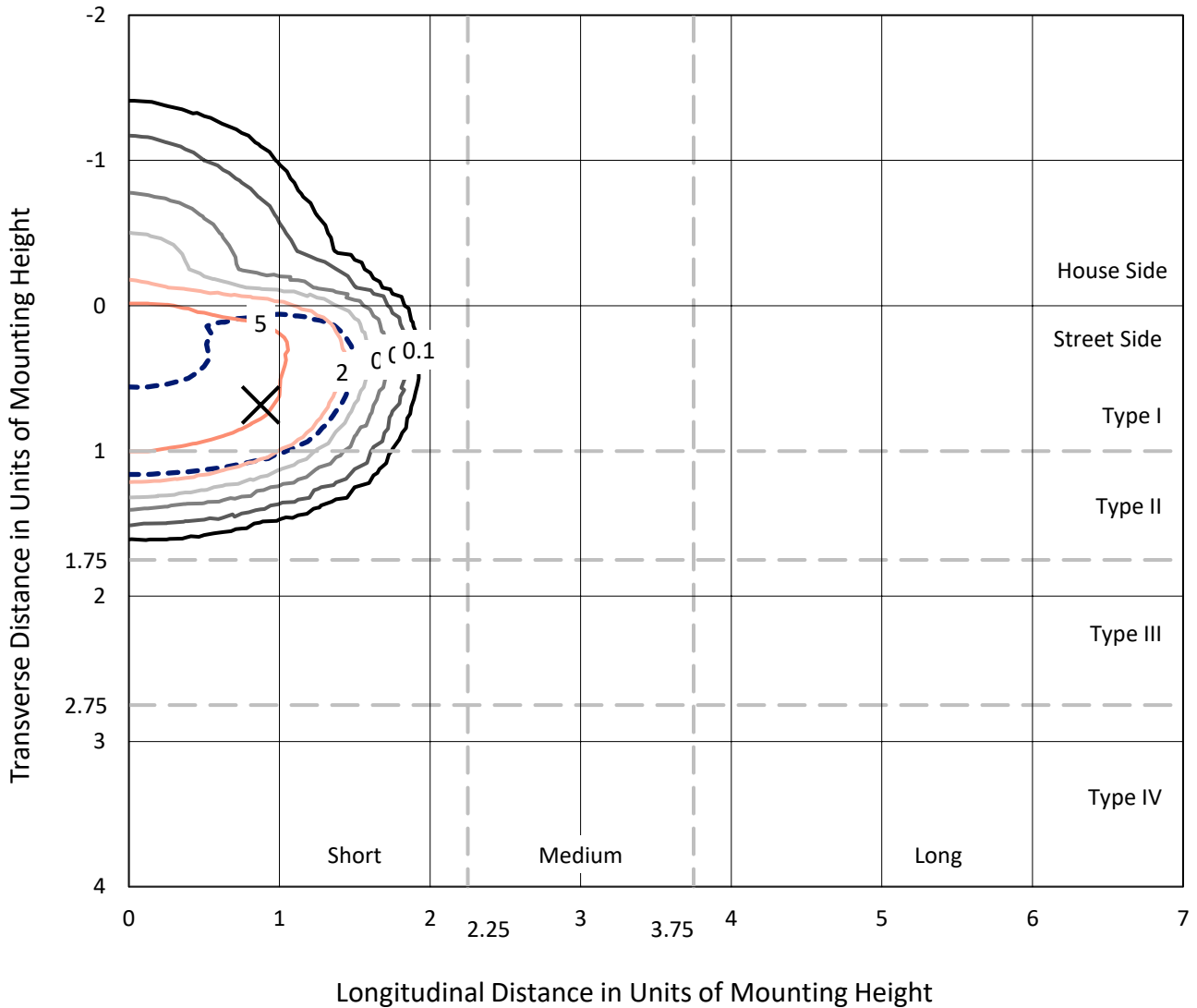
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

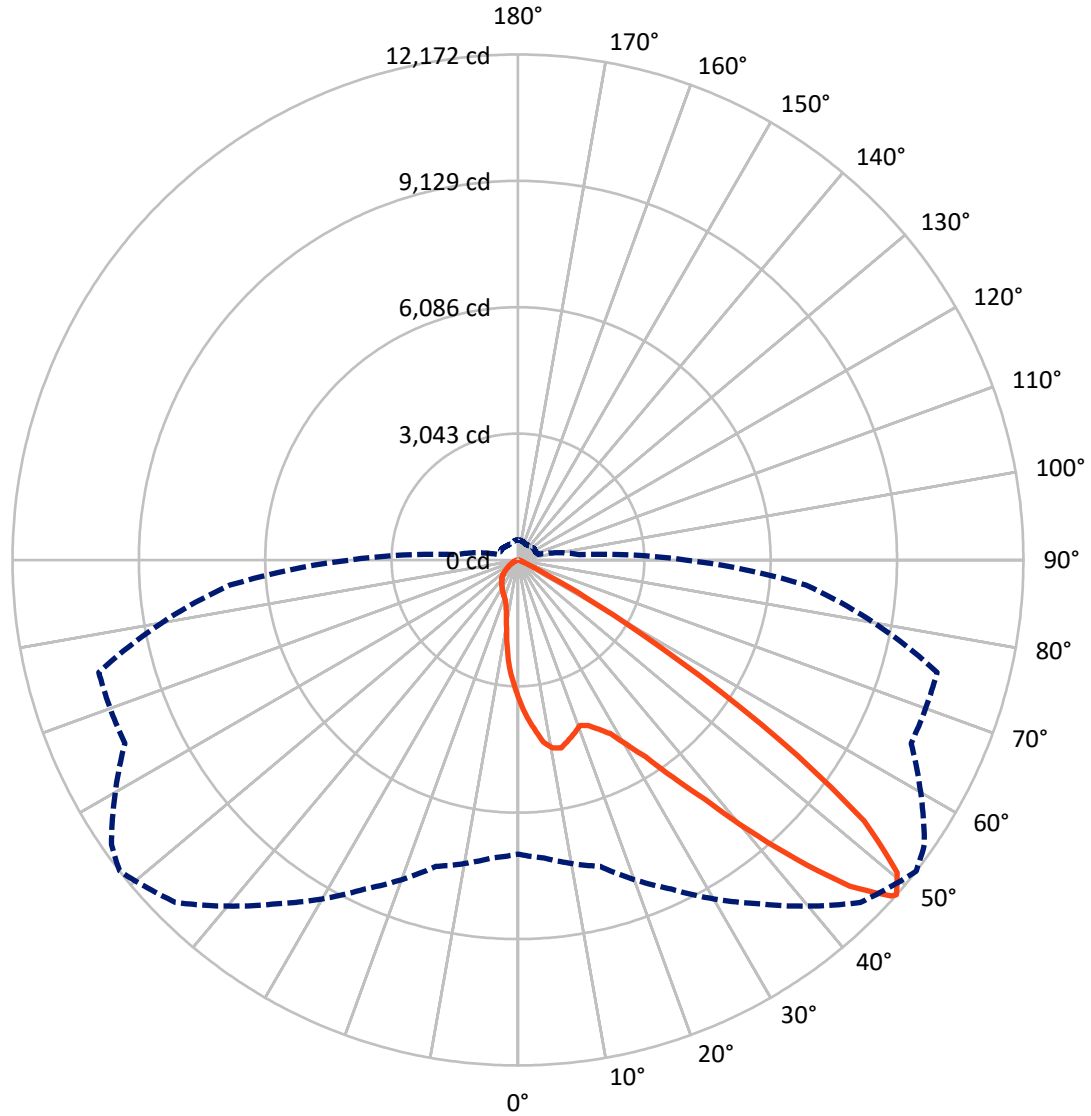
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1413.0	0.0	1413.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10192.0	0.0	10192.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	11605.0	0.0	11605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.7	2.6
10°-20°	801.6	6.9
20°-30°	1368.7	11.8
30°-40°	2520.5	21.7
40°-50°	3914.3	33.7
50°-60°	2355.7	20.3
60°-70°	272.5	2.3
70°-80°	52.7	0.5
80°-90°	12.2	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°	11605.0	100.0
0°-180°	11605.0	100.0

Coefficient of Utilization



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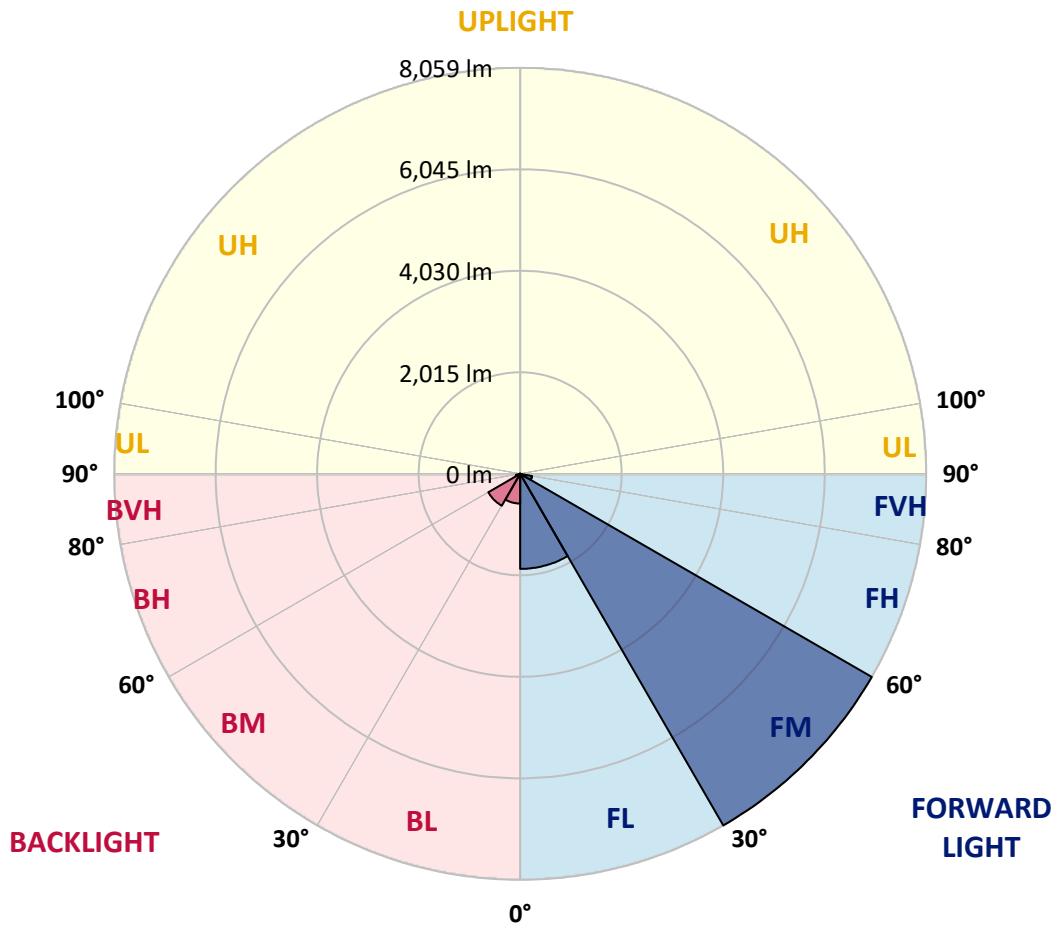
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1886.8	16.3			
FM (30°-60°)	8059.4	69.4			
FH (60°-80°)	239.9	2.1			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	590.3	5.1	B2/1000		
BM (30°-60°)	731.1	6.3	B1/1000		
BH (60°-80°)	85.3	0.7	B0/110		G0/110
BVH (80°-90°)	6.4	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°	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3
2.5°	4061.9	3968.8	3977.3	3916.4	3880.8	3823.3	3745.5	3730.3	3645.7	3530.7	3413.9
5°	4427.3	4405.3	4434.0	4346.1	4349.5	4254.7	4072.0	4075.4	3880.8	3693.1	3512.0
7.5°	4451.0	4400.2	4429.0	4506.8	4552.5	4535.5	4432.4	4342.7	4158.3	3882.5	3618.6
10°	3985.7	4082.2	4112.6	4241.2	4423.9	4616.8	4604.9	4610.0	4456.0	4095.7	3710.0
12.5°	3706.6	3642.3	3745.5	3823.3	4099.1	4473.0	4643.8	4681.0	4692.9	4302.1	3801.3
15°	3579.7	3579.7	3596.6	3618.6	3818.3	4163.4	4511.9	4620.1	4875.6	4572.8	3945.1
17.5°	3659.2	3655.8	3679.5	3633.9	3708.3	3973.9	4390.1	4513.6	5080.3	4838.4	4058.5
20°	3901.1	3913.0	3897.8	3765.8	3770.9	3970.5	4254.7	4449.3	5219.0	5068.4	4209.0
22.5°	4237.8	4244.6	4158.3	4014.5	3972.2	4070.3	4332.5	4481.4	5330.7	5344.2	4254.7
25°	4626.9	4599.8	4582.9	4379.9	4251.3	4335.9	4508.5	4594.8	5400.0	5581.0	4385.0
27.5°	5166.6	5112.4	5009.2	4828.2	4733.5	4613.4	4736.9	4879.0	5598.0	5912.6	4527.1
30°	5963.4	5916.0	5714.7	5481.2	5232.5	5114.1	5153.0	5230.9	5954.9	6296.6	4714.9
32.5°	7162.8	7063.0	6772.0	6327.1	5988.7	5662.2	5652.1	5735.0	6274.7	6827.9	4938.2
35°	8484.1	8453.6	8025.6	7567.1	6912.4	6408.3	6416.8	6460.7	6887.1	7524.8	5230.9
37.5°	9362.1	9529.6	9257.2	8764.9	8215.1	7494.4	7311.7	7326.9	7727.9	8350.4	5758.7
40°	10040.5	9898.4	9930.5	9815.5	9439.9	8949.3	8545.0	8465.5	8700.6	9264.0	6283.1
42.5°	9744.4	9751.2	9949.1	10221.5	10314.5	10279.0	9866.2	9715.6	9532.9	10011.7	6782.2
45°	8908.7	9082.9	9340.1	10060.8	10693.5	11287.3	11206.1	10955.7	10108.1	10603.8	7069.8
47.5°	7575.6	7568.8	7990.1	8927.3	10333.1	11723.7	12092.5	11916.6	10515.8	10537.8	7010.6
48°	7083.3	7205.1	7639.9	8742.9	10104.7	11659.5	12172.0	11950.4	10446.5	10449.9	6959.8
50°	5235.9	5213.9	5755.3	7108.7	9025.4	10955.7	11837.1	12009.6	10444.8	10004.9	6604.5
52.5°	2766.0	2860.7	3254.9	4469.6	6381.2	8966.2	10441.4	10710.4	10076.0	9277.5	6093.6
55°	1175.8	1062.4	1365.2	2018.2	3589.9	5990.4	7660.2	8259.1	8519.6	8210.0	5330.7
57.5°	419.6	458.5	527.8	759.6	1509.0	3278.6	4567.7	5032.9	5902.5	6024.3	3632.2
60°	269.0	274.1	296.1	348.5	566.7	1263.7	2167.1	2537.6	2931.8	3026.5	1695.1
62.5°	208.1	209.8	219.9	228.4	269.0	490.6	813.7	964.3	1001.5	861.1	444.9
65°	174.2	175.9	179.3	179.3	191.2	230.1	284.2	313.0	304.5	301.1	252.1
67.5°	133.6	137.0	143.8	143.8	150.6	140.4	157.3	167.5	189.5	230.1	214.9
70°	104.9	106.6	111.7	115.0	115.0	101.5	113.3	123.5	138.7	170.9	169.2
72.5°	81.2	84.6	88.0	88.0	82.9	69.4	81.2	89.7	99.8	118.4	115.0
75°	62.6	62.6	64.3	52.4	40.6	35.5	49.1	59.2	74.4	77.8	64.3
77.5°	16.9	18.6	16.9	15.2	16.9	25.4	32.1	37.2	47.4	47.4	42.3
80°	0.0	1.7	5.1	10.2	16.9	23.7	28.8	32.1	37.2	40.6	38.9
82.5°	0.0	1.7	5.1	10.2	15.2	18.6	25.4	27.1	30.5	35.5	35.5
85°	0.0	1.7	3.4	6.8	10.2	11.8	11.8	10.2	10.2	8.5	6.8
87.5°	0.0	0.0	1.7	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1
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°	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3
2.5°	3368.2	3315.8	3236.3	3111.1	2991.0	2913.2	2838.7	2755.8	2710.2	2706.8	2681.4
5°	3408.9	3290.4	3101.0	2886.1	2656.0	2458.1	2258.5	2128.2	2011.5	1947.2	1935.3
7.5°	3430.8	3276.9	2970.7	2610.4	2217.9	1894.7	1671.4	1507.3	1443.1	1395.7	1394.0
10°	3476.5	3253.2	2776.1	2244.9	1759.4	1432.9	1279.0	1204.5	1169.0	1155.5	1135.2
12.5°	3510.4	3209.2	2576.5	1869.4	1390.6	1187.6	1119.9	1103.0	1104.7	1111.5	1103.0
15°	3557.7	3170.3	2307.5	1534.4	1167.3	1069.2	1069.2	1072.6	1096.2	1099.6	1097.9
17.5°	3554.3	3094.2	2030.1	1263.7	1032.0	1018.4	1023.5	1055.6	1070.9	1075.9	1064.1
20°	3594.9	3023.1	1744.2	1079.3	955.8	976.1	1010.0	1018.4	1037.0	1040.4	1026.9
22.5°	3583.1	2845.5	1478.6	933.8	898.3	937.2	971.1	981.2	976.1	966.0	964.3
25°	3561.1	2693.2	1235.0	837.4	856.0	898.3	930.5	911.8	901.7	903.4	905.1
27.5°	3522.2	2500.4	1033.7	769.7	798.5	861.1	859.4	852.6	862.8	854.3	862.8
30°	3515.4	2307.5	867.9	708.8	756.2	801.9	805.3	817.1	829.0	813.7	829.0
32.5°	3525.6	2096.1	749.4	671.6	730.8	732.5	769.7	781.6	773.1	739.3	742.7
35°	3603.4	1933.7	663.2	651.3	690.2	691.9	727.4	712.2	675.0	654.7	666.5
37.5°	3767.5	1798.3	622.6	632.7	636.1	658.1	659.8	629.3	632.7	631.0	637.8
40°	3977.3	1695.1	593.8	615.8	612.4	627.6	566.7	583.6	598.9	604.0	607.3
42.5°	4121.1	1620.7	575.2	588.7	582.0	554.9	521.1	538.0	549.8	568.4	571.8
45°	4185.4	1561.5	553.2	541.4	541.4	492.3	478.8	482.1	509.2	529.5	526.1
47.5°	4080.5	1504.0	514.3	478.8	490.6	450.0	434.8	434.8	463.5	488.9	483.8
48°	4039.9	1480.3	516.0	465.2	473.7	443.2	428.0	424.6	456.8	480.5	480.5
50°	3838.6	1392.3	472.0	428.0	411.1	407.7	397.6	400.9	421.2	443.2	443.2
52.5°	3446.1	1202.8	399.2	367.1	336.7	357.0	362.0	355.3	365.4	385.7	384.0
55°	2876.0	923.7	319.7	304.5	280.8	302.8	313.0	304.5	294.4	309.6	309.6
57.5°	1842.3	497.4	255.5	258.8	235.2	257.1	265.6	245.3	226.7	238.5	236.8
60°	830.6	297.7	209.8	204.7	189.5	214.9	228.4	204.7	179.3	187.8	196.2
62.5°	311.3	211.5	159.0	155.6	152.3	175.9	182.7	164.1	138.7	143.8	145.5
65°	228.4	186.1	126.9	115.0	121.8	138.7	135.3	116.7	99.8	99.8	103.2
67.5°	194.5	162.4	103.2	89.7	89.7	91.4	84.6	74.4	69.4	72.7	76.1
70°	152.3	128.6	81.2	69.4	62.6	55.8	49.1	47.4	42.3	47.4	45.7
72.5°	98.1	86.3	62.6	52.4	47.4	38.9	32.1	30.5	25.4	23.7	23.7
75°	52.4	52.4	49.1	42.3	37.2	30.5	25.4	20.3	13.5	10.2	10.2
77.5°	37.2	40.6	44.0	40.6	33.8	25.4	20.3	13.5	6.8	3.4	3.4
80°	35.5	40.6	44.0	38.9	33.8	25.4	18.6	10.2	5.1	1.7	1.7
82.5°	32.1	37.2	40.6	35.5	30.5	22.0	16.9	10.2	5.1	1.7	1.7
85°	6.8	8.5	10.2	10.2	11.8	15.2	11.8	8.5	3.4	1.7	1.7
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	1.7
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)