

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: P528201

Luminaire Tested: **GALN-SA3B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528201
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-SA3B-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 11804 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

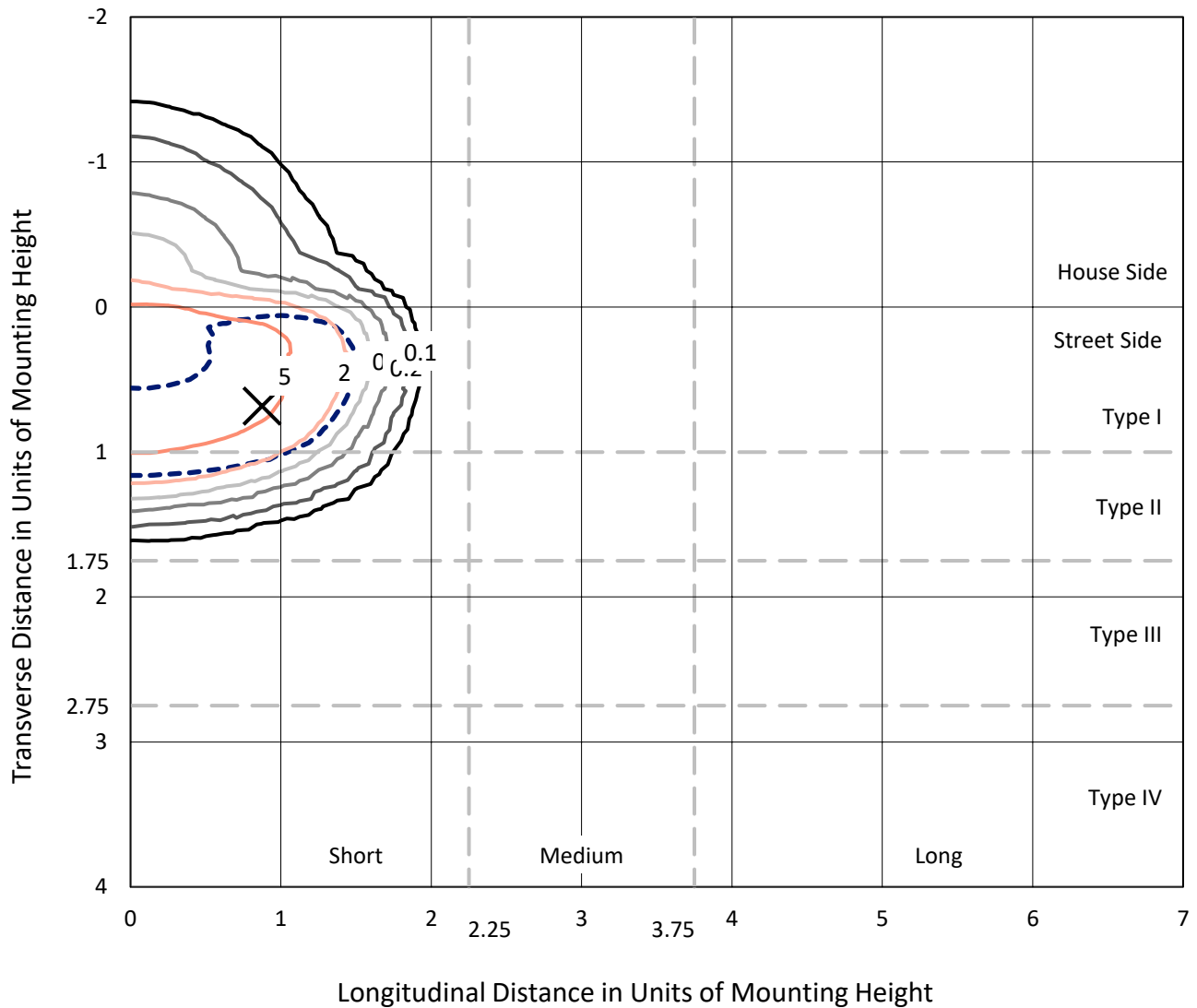
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

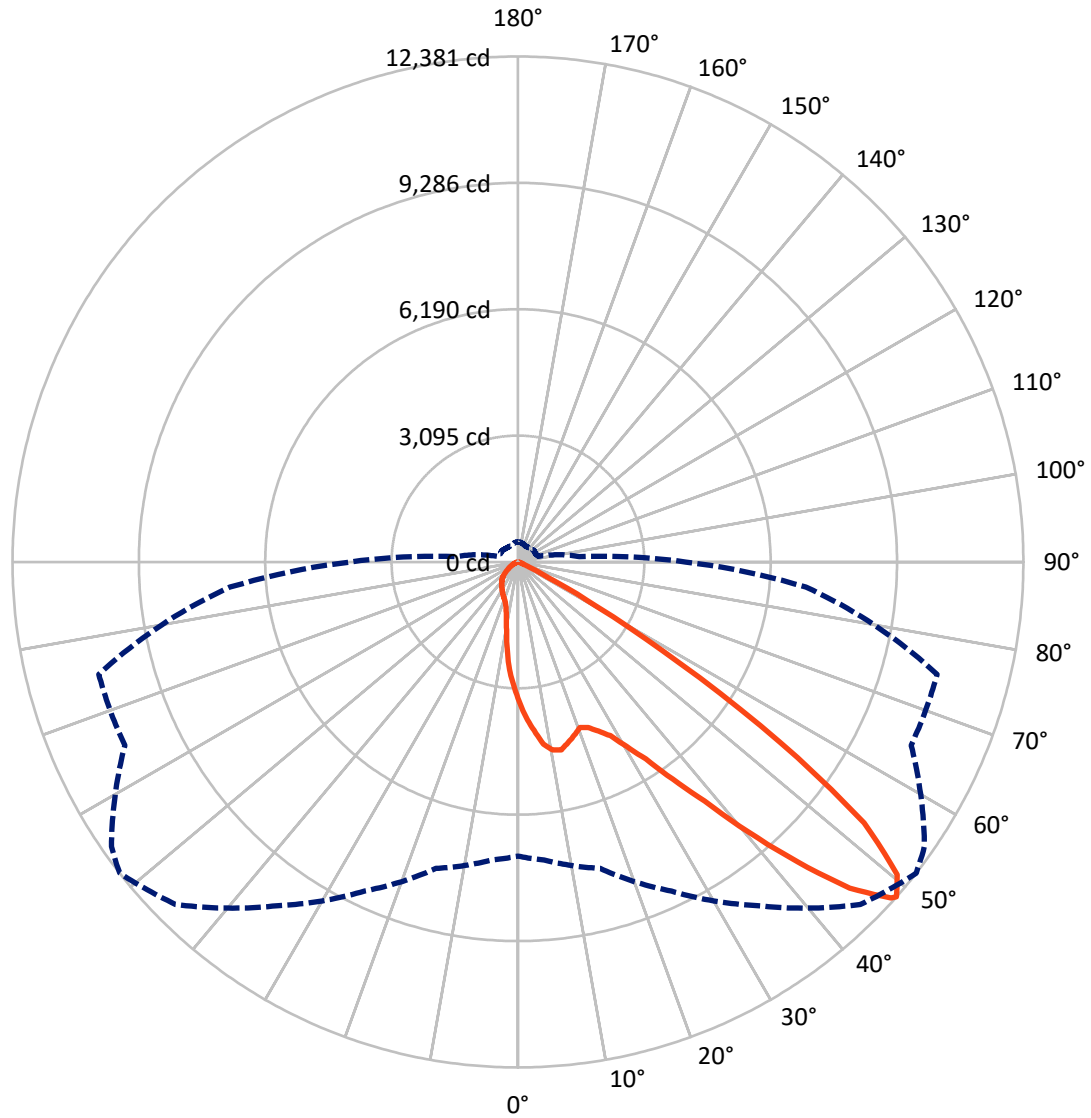
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	1437.2	0.0	1437.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10366.8	0.0	10366.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	11804.0	0.0	11804.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	2.6
10°-20°	815.4	6.9
20°-30°	1392.2	11.8
30°-40°	2563.7	21.7
40°-50°	3981.4	33.7
50°-60°	2396.1	20.3
60°-70°	277.1	2.3
70°-80°	53.6	0.5
80°-90°	12.4	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°	11804.0	100.0
0°-180°	11804.0	100.0



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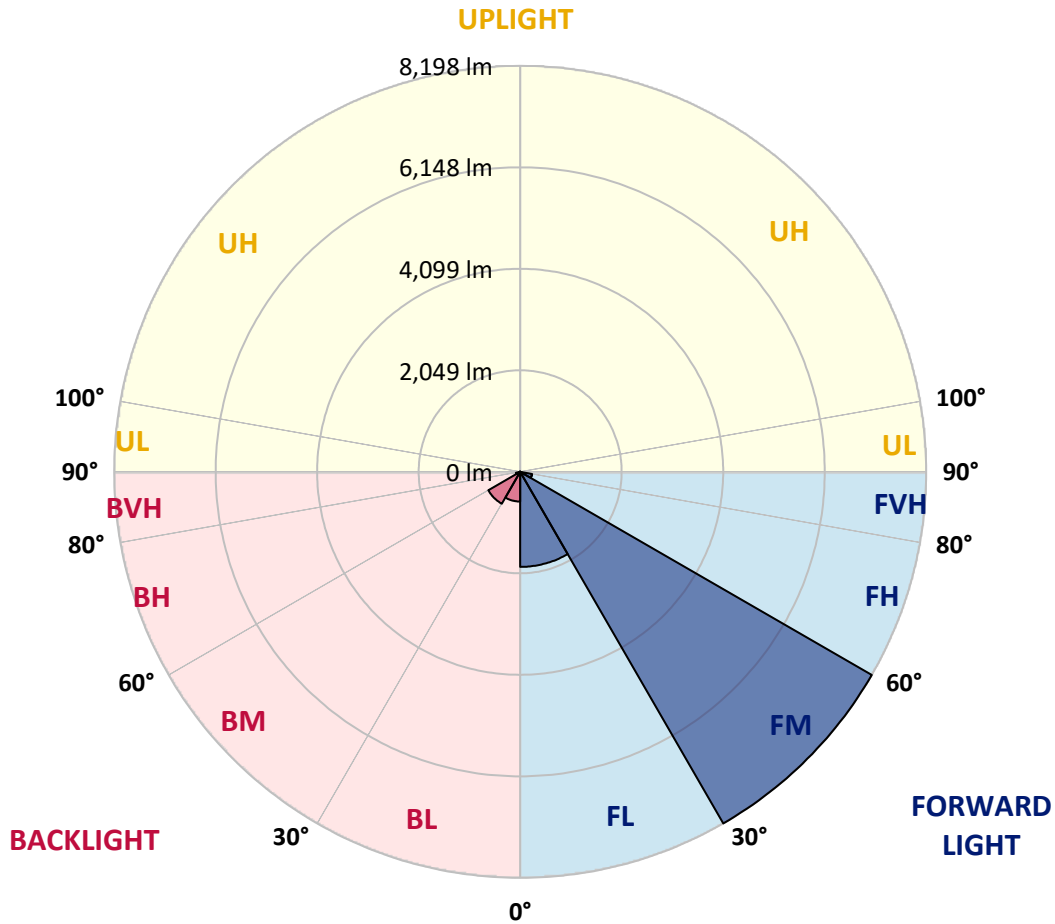
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.2	16.3			
FM (30°-60°)	8197.6	69.4			
FH (60°-80°)	244.0	2.1			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	600.4	5.1	B2/1000		
BM (30°-60°)	743.6	6.3	B1/1000		
BH (60°-80°)	86.7	0.7	B0/110		G0/110
BVH (80°-90°)	6.5	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°	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8
2.5°	4131.5	4036.9	4045.5	3983.5	3947.4	3888.9	3809.7	3794.2	3708.2	3591.2	3472.5
5°	4503.2	4480.8	4510.1	4420.6	4424.0	4327.7	4141.8	4145.3	3947.4	3756.4	3572.3
7.5°	4527.3	4475.7	4504.9	4584.1	4630.5	4613.3	4508.4	4417.2	4229.6	3949.1	3680.7
10°	4054.1	4152.2	4183.1	4313.9	4499.8	4695.9	4683.9	4689.0	4532.4	4165.9	3773.6
12.5°	3770.2	3704.8	3809.7	3888.9	4169.4	4549.7	4723.4	4761.3	4773.4	4375.9	3866.5
15°	3641.1	3641.1	3658.3	3680.7	3883.7	4234.8	4589.2	4699.4	4959.2	4651.2	4012.8
17.5°	3722.0	3718.5	3742.6	3696.2	3771.9	4042.0	4465.3	4591.0	5167.4	4921.3	4128.1
20°	3968.0	3980.1	3964.6	3830.4	3835.5	4038.6	4327.7	4525.6	5308.5	5155.4	4281.2
22.5°	4310.5	4317.4	4229.6	4083.3	4040.3	4140.1	4406.8	4558.3	5422.1	5435.8	4327.7
25°	4706.2	4678.7	4661.5	4455.0	4324.2	4410.3	4585.8	4673.5	5492.6	5676.7	4460.2
27.5°	5255.2	5200.1	5095.1	4911.0	4814.6	4692.5	4818.1	4962.6	5694.0	6014.0	4604.7
30°	6065.6	6017.5	5812.7	5575.2	5322.3	5201.8	5241.4	5320.5	6057.0	6404.6	4795.7
32.5°	7285.6	7184.1	6888.1	6435.6	6091.4	5759.3	5749.0	5833.3	6382.2	6944.9	5022.9
35°	8629.5	8598.6	8163.2	7696.9	7031.0	6518.2	6526.8	6571.5	7005.2	7653.9	5320.5
37.5°	9522.6	9693.0	9415.9	8915.2	8355.9	7622.9	7437.1	7452.6	7860.4	8493.6	5857.4
40°	10212.6	10068.1	10100.8	9983.8	9601.8	9102.7	8691.5	8610.6	8849.8	9422.8	6390.9
42.5°	9911.5	9918.4	10119.7	10396.8	10491.4	10455.3	10035.4	9882.2	9696.4	10183.4	6898.5
45°	9061.5	9238.7	9500.2	10233.3	10876.8	11480.8	11398.2	11143.6	10281.5	10785.6	7191.0
47.5°	7705.5	7698.6	8127.1	9080.4	10510.3	11924.8	12299.9	12120.9	10696.2	10718.5	7130.8
48°	7204.8	7328.7	7770.9	8892.8	10278.0	11859.4	12380.8	12155.4	10625.6	10629.1	7079.2
50°	5325.7	5303.3	5854.0	7230.6	9180.2	11143.6	12040.1	12215.6	10623.9	10176.5	6717.8
52.5°	2813.4	2909.8	3310.7	4546.2	6490.7	9120.0	10620.4	10894.0	10248.8	9436.6	6198.1
55°	1195.9	1080.6	1388.6	2052.9	3651.4	6093.2	7791.5	8400.7	8665.7	8350.8	5422.1
57.5°	426.7	466.3	536.9	772.6	1534.9	3334.8	4646.0	5119.2	6003.7	6127.6	3694.4
60°	273.6	278.8	301.1	354.5	576.5	1285.4	2204.3	2581.1	2982.1	3078.4	1724.2
62.5°	211.7	213.4	223.7	232.3	273.6	499.0	827.7	980.8	1018.7	875.9	452.6
65°	177.2	179.0	182.4	182.4	194.4	234.0	289.1	318.3	309.7	306.3	256.4
67.5°	135.9	139.4	146.3	146.3	153.1	142.8	160.0	170.4	192.7	234.0	218.5
70°	106.7	108.4	113.6	117.0	117.0	103.2	115.3	125.6	141.1	173.8	172.1
72.5°	82.6	86.0	89.5	89.5	84.3	70.6	82.6	91.2	101.5	120.5	117.0
75°	63.7	63.7	65.4	53.3	41.3	36.1	49.9	60.2	75.7	79.2	65.4
77.5°	17.2	18.9	17.2	15.5	17.2	25.8	32.7	37.9	48.2	48.2	43.0
80°	0.0	1.7	5.2	10.3	17.2	24.1	29.3	32.7	37.9	41.3	39.6
82.5°	0.0	1.7	5.2	10.3	15.5	18.9	25.8	27.5	31.0	36.1	36.1
85°	0.0	1.7	3.4	6.9	10.3	12.0	12.0	10.3	10.3	8.6	6.9
87.5°	0.0	0.0	1.7	3.4	3.4	5.2	5.2	5.2	5.2	5.2	5.2
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°	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8	3408.8
2.5°	3426.0	3372.7	3291.8	3164.5	3042.3	2963.1	2887.4	2803.1	2756.6	2753.2	2727.4
5°	3467.3	3346.9	3154.1	2935.6	2701.6	2500.2	2297.2	2164.7	2046.0	1980.6	1968.5
7.5°	3489.7	3333.1	3021.6	2655.1	2255.9	1927.2	1700.1	1533.2	1467.8	1419.6	1417.9
10°	3536.1	3309.0	2823.7	2283.4	1789.6	1457.5	1300.9	1225.2	1189.0	1175.3	1154.6
12.5°	3570.5	3264.3	2620.7	1901.4	1414.5	1208.0	1139.1	1121.9	1123.6	1130.5	1121.9
15°	3618.7	3224.7	2347.1	1560.7	1187.3	1087.5	1087.5	1091.0	1115.0	1118.5	1116.8
17.5°	3615.3	3147.2	2064.9	1285.4	1049.7	1035.9	1041.1	1073.7	1089.2	1094.4	1082.3
20°	3656.6	3075.0	1774.1	1097.8	972.2	992.9	1027.3	1035.9	1054.8	1058.3	1044.5
22.5°	3644.5	2894.3	1503.9	949.9	913.7	953.3	987.7	998.0	992.9	982.5	980.8
25°	3622.2	2739.4	1256.1	851.8	870.7	913.7	946.4	927.5	917.2	918.9	920.6
27.5°	3582.6	2543.3	1051.4	782.9	812.2	875.9	874.1	867.3	877.6	869.0	877.6
30°	3575.7	2347.1	882.7	721.0	769.2	815.6	819.1	831.1	843.2	827.7	843.2
32.5°	3586.0	2132.0	762.3	683.1	743.4	745.1	782.9	795.0	786.4	752.0	755.4
35°	3665.2	1966.8	674.5	662.5	702.1	703.8	739.9	724.4	686.6	665.9	678.0
37.5°	3832.1	1829.2	633.2	643.6	647.0	669.4	671.1	640.1	643.6	641.8	648.7
40°	4045.5	1724.2	604.0	626.4	622.9	638.4	576.5	593.7	609.1	614.3	617.7
42.5°	4191.7	1648.5	585.1	598.8	591.9	564.4	530.0	547.2	559.2	578.2	581.6
45°	4257.1	1588.2	562.7	550.6	550.6	500.7	487.0	490.4	517.9	538.6	535.2
47.5°	4150.4	1529.7	523.1	487.0	499.0	457.7	442.2	442.2	471.5	497.3	492.1
48°	4109.1	1505.7	524.8	473.2	481.8	450.8	435.3	431.9	464.6	488.7	488.7
50°	3904.4	1416.2	480.1	435.3	418.1	414.7	404.4	407.8	428.5	450.8	450.8
52.5°	3505.2	1223.5	406.1	373.4	342.4	363.1	368.2	361.4	371.7	392.3	390.6
55°	2925.3	939.5	325.2	309.7	285.6	308.0	318.3	309.7	299.4	314.9	314.9
57.5°	1873.9	505.9	259.8	263.3	239.2	261.6	270.2	249.5	230.6	242.6	240.9
60°	844.9	302.9	213.4	208.2	192.7	218.5	232.3	208.2	182.4	191.0	199.6
62.5°	316.6	215.1	161.8	158.3	154.9	179.0	185.8	166.9	141.1	146.3	148.0
65°	232.3	189.3	129.1	117.0	123.9	141.1	137.7	118.7	101.5	101.5	105.0
67.5°	197.9	165.2	105.0	91.2	91.2	92.9	86.0	75.7	70.6	74.0	77.4
70°	154.9	130.8	82.6	70.6	63.7	56.8	49.9	48.2	43.0	48.2	46.5
72.5°	99.8	87.8	63.7	53.3	48.2	39.6	32.7	31.0	25.8	24.1	24.1
75°	53.3	53.3	49.9	43.0	37.9	31.0	25.8	20.6	13.8	10.3	10.3
77.5°	37.9	41.3	44.7	41.3	34.4	25.8	20.6	13.8	6.9	3.4	3.4
80°	36.1	41.3	44.7	39.6	34.4	25.8	18.9	10.3	5.2	1.7	1.7
82.5°	32.7	37.9	41.3	36.1	31.0	22.4	17.2	10.3	5.2	1.7	1.7
85°	6.9	8.6	10.3	10.3	12.0	15.5	12.0	8.6	3.4	1.7	1.7
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	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)