

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: P529865

Luminaire Tested: **GALN-SA5A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529865
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-SA5A-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 17084 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

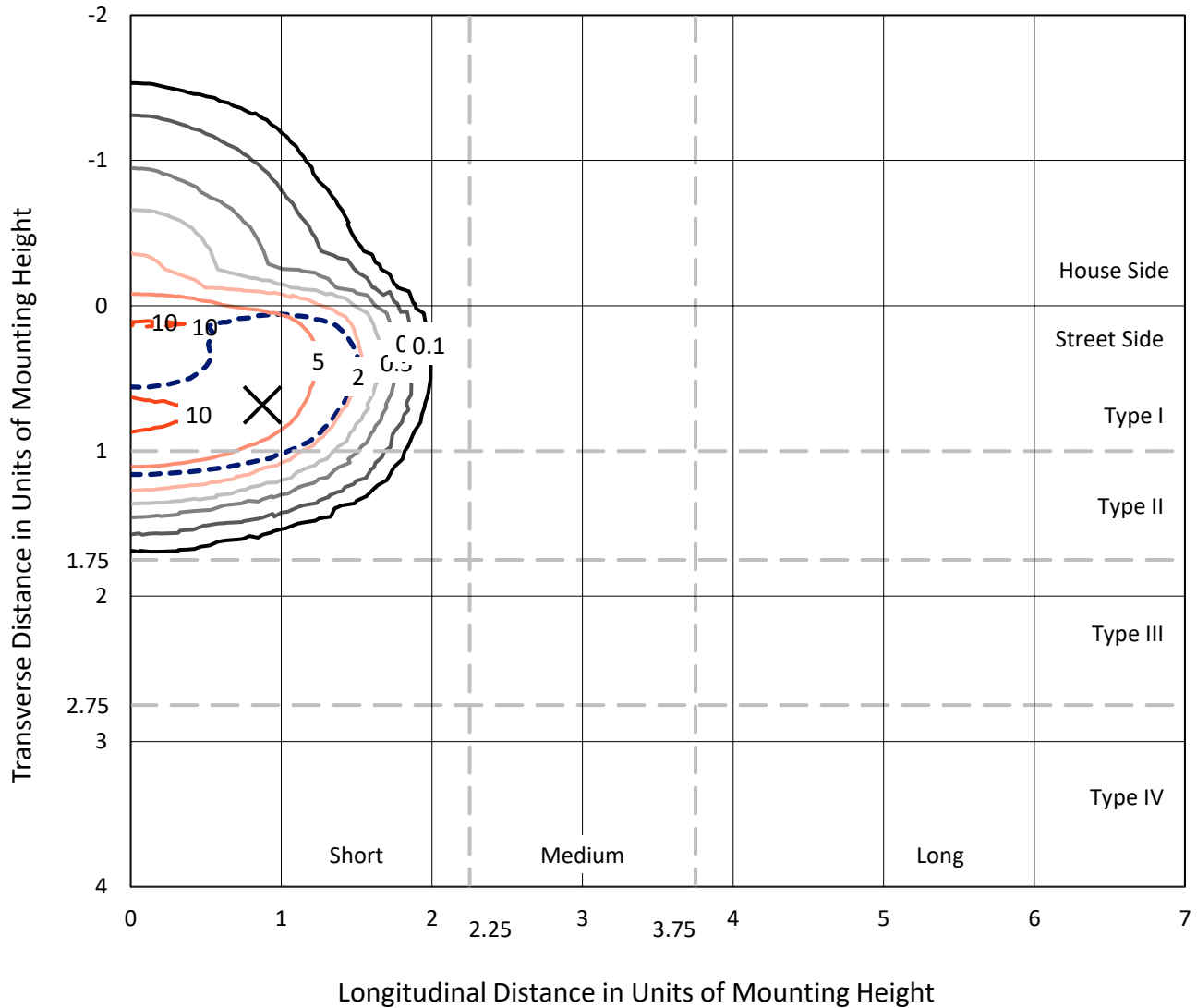
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

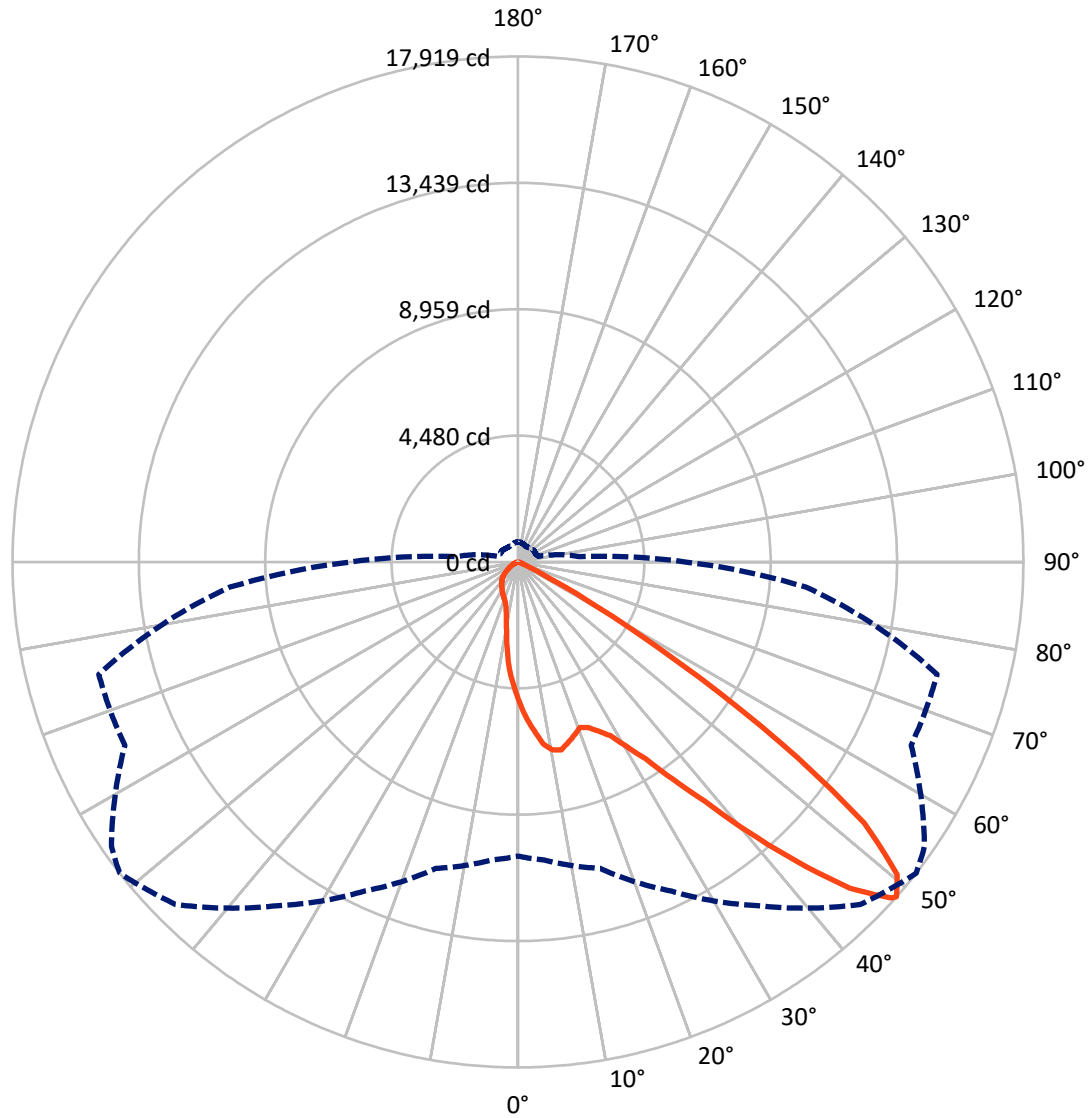
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	2080.1	0.0	2080.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15003.9	0.0	15003.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	17084.0	0.0	17084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.6	2.6
10°-20°	1180.1	6.9
20°-30°	2014.9	11.8
30°-40°	3710.5	21.7
40°-50°	5762.3	33.7
50°-60°	3467.9	20.3
60°-70°	401.1	2.3
70°-80°	77.6	0.5
80°-90°	18.0	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°	17084.0	100.0
0°-180°	17084.0	100.0

Coefficient of Utilization



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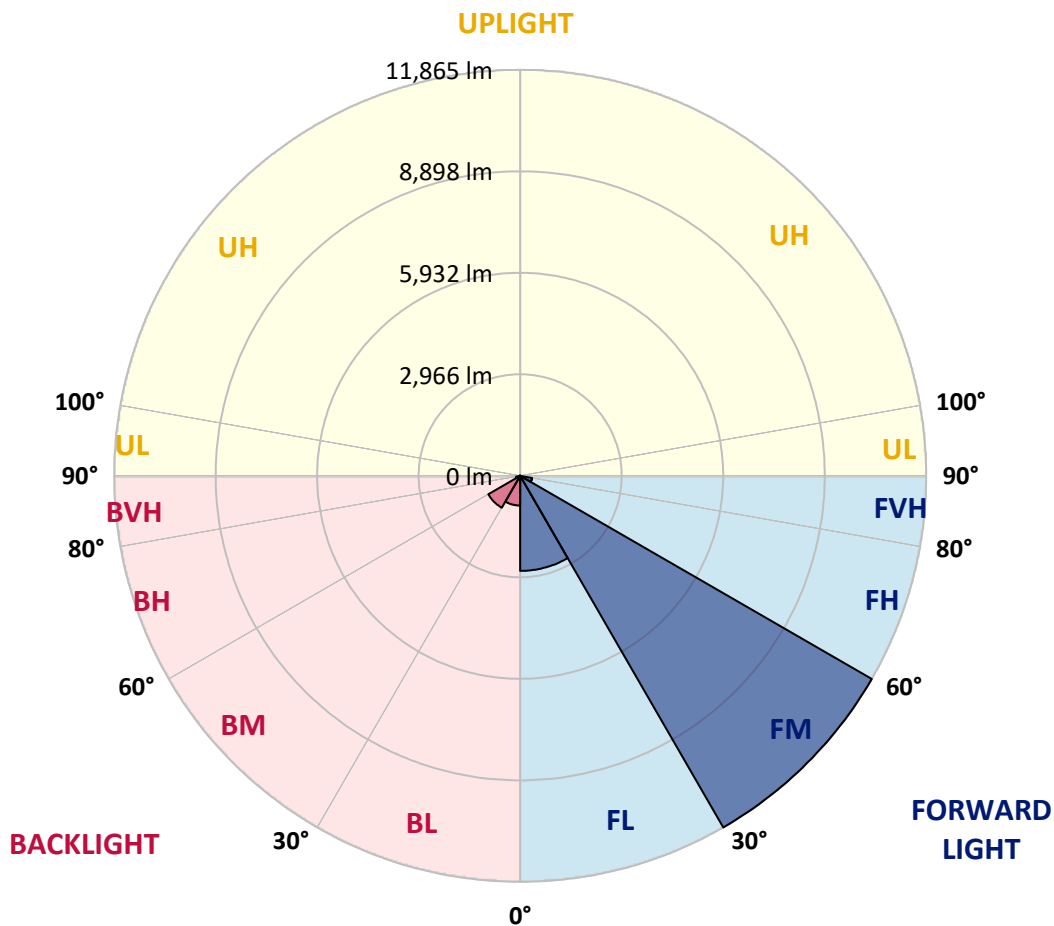
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.6	16.3			
FM (30°-60°)	11864.5	69.4			
FH (60°-80°)	353.2	2.1			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	868.9	5.1	B2/1000		
BM (30°-60°)	1076.2	6.3	B2/2500		
BH (60°-80°)	125.5	0.7	B1/500		G1/500
BVH (80°-90°)	9.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6
2.5°	5979.6	5842.6	5855.0	5765.4	5713.1	5628.4	5513.8	5491.4	5366.9	5197.6	5025.7
5°	6517.5	6485.1	6527.5	6398.0	6402.9	6263.5	5994.5	5999.5	5713.1	5436.6	5170.2
7.5°	6552.4	6477.7	6520.0	6634.6	6701.8	6676.9	6525.0	6393.0	6121.5	5715.6	5327.1
10°	5867.5	6009.4	6054.3	6243.6	6512.5	6796.4	6779.0	6786.5	6559.8	6029.4	5461.6
12.5°	5456.6	5361.9	5513.8	5628.4	6034.4	6584.7	6836.3	6891.1	6908.5	6333.2	5596.0
15°	5269.8	5269.8	5294.7	5327.1	5620.9	6129.0	6642.0	6801.4	7177.5	6731.7	5807.7
17.5°	5386.8	5381.9	5416.7	5349.5	5459.1	5850.1	6462.7	6644.5	7478.8	7122.7	5974.6
20°	5743.0	5760.4	5738.0	5543.7	5551.2	5845.1	6263.5	6549.9	7683.0	7461.4	6196.2
22.5°	6238.6	6248.5	6121.5	5909.8	5847.6	5992.0	6378.0	6597.2	7847.4	7867.3	6263.5
25°	6811.4	6771.5	6746.6	6447.8	6258.5	6383.0	6637.0	6764.1	7949.5	8216.0	6455.2
27.5°	7605.8	7526.1	7374.2	7107.7	6968.3	6791.4	6973.3	7182.4	8240.9	8704.1	6664.4
30°	8778.8	8709.1	8412.7	8069.0	7703.0	7528.6	7585.9	7700.5	8766.4	9269.4	6940.9
32.5°	10544.6	10397.6	9969.3	9314.3	8816.2	8335.5	8320.6	8442.6	9237.1	10051.4	7269.6
35°	12489.6	12444.8	11814.7	11139.8	10176.0	9433.8	9446.3	9511.0	10138.6	11077.5	7700.5
37.5°	13782.1	14028.7	13627.7	12903.0	12093.6	11032.7	10763.7	10786.1	11376.4	12292.8	8477.5
40°	14780.8	14571.6	14618.9	14449.6	13896.7	13174.5	12579.2	12462.2	12808.4	13637.7	9249.5
42.5°	14345.0	14354.9	14646.3	15047.3	15184.3	15132.0	14524.3	14302.6	14033.7	14738.5	9984.2
45°	13114.7	13371.2	13749.8	14810.7	15742.1	16616.3	16496.7	16128.1	14880.4	15610.1	10407.6
47.5°	11152.2	11142.3	11762.4	13142.1	15211.7	17258.8	17801.7	17542.7	15480.6	15513.0	10320.4
48°	10427.5	10606.8	11246.9	12870.6	14875.4	17164.2	17918.8	17592.5	15378.5	15383.5	10245.7
50°	7707.9	7675.6	8472.5	10464.9	13286.5	16128.1	17425.7	17679.7	15376.0	14728.5	9722.7
52.5°	4071.9	4211.3	4791.6	6579.8	9394.0	13199.4	15371.0	15767.0	14833.1	13657.6	8970.6
55°	1730.9	1564.0	2009.8	2971.1	5284.7	8818.7	11276.7	12158.4	12541.9	12086.1	7847.4
57.5°	617.6	674.9	777.0	1118.2	2221.5	4826.5	6724.2	7409.1	8689.2	8868.5	5347.0
60°	396.0	403.5	435.8	513.0	834.3	1860.4	3190.3	3735.7	4315.9	4455.4	2495.4
62.5°	306.3	308.8	323.8	336.2	396.0	722.2	1197.9	1419.6	1474.3	1267.6	655.0
65°	256.5	259.0	264.0	264.0	281.4	338.7	418.4	460.7	448.3	443.3	371.1
67.5°	196.7	201.7	211.7	211.7	221.6	206.7	231.6	246.6	278.9	338.7	316.3
70°	154.4	156.9	164.4	169.4	169.4	149.4	166.9	181.8	204.2	251.5	249.0
72.5°	119.5	124.5	129.5	129.5	122.0	102.1	119.5	132.0	146.9	174.3	169.4
75°	92.1	92.1	94.6	77.2	59.8	52.3	72.2	87.2	109.6	114.6	94.6
77.5°	24.9	27.4	24.9	22.4	24.9	37.4	47.3	54.8	69.7	69.7	62.3
80°	0.0	2.5	7.5	14.9	24.9	34.9	42.3	47.3	54.8	59.8	57.3
82.5°	0.0	2.5	7.5	14.9	22.4	27.4	37.4	39.8	44.8	52.3	52.3
85°	0.0	2.5	5.0	10.0	14.9	17.4	17.4	14.9	14.9	12.5	10.0
87.5°	0.0	0.0	2.5	5.0	5.0	7.5	7.5	7.5	7.5	7.5	7.5
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°	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6	4933.6
2.5°	4958.5	4881.3	4764.2	4579.9	4403.1	4288.5	4179.0	4056.9	3989.7	3984.7	3947.4
5°	5018.3	4843.9	4565.0	4248.7	3910.0	3618.6	3324.7	3133.0	2961.1	2866.5	2849.1
7.5°	5050.6	4824.0	4373.2	3842.8	3265.0	2789.3	2460.6	2219.0	2124.4	2054.6	2052.1
10°	5117.9	4789.1	4086.8	3304.8	2590.1	2109.4	1882.8	1773.2	1720.9	1701.0	1671.1
12.5°	5167.7	4724.4	3793.0	2751.9	2047.1	1748.3	1648.7	1623.8	1626.3	1636.2	1623.8
15°	5237.4	4667.1	3397.0	2258.8	1718.4	1574.0	1574.0	1578.9	1613.8	1618.8	1616.3
17.5°	5232.4	4555.0	2988.5	1860.4	1519.2	1499.2	1506.7	1554.0	1576.5	1583.9	1566.5
20°	5292.2	4450.4	2567.7	1588.9	1407.1	1437.0	1486.8	1499.2	1526.6	1531.6	1511.7
22.5°	5274.8	4188.9	2176.7	1374.7	1322.4	1379.7	1429.5	1444.5	1437.0	1422.0	1419.6
25°	5242.4	3964.8	1818.0	1232.8	1260.2	1322.4	1369.7	1342.4	1327.4	1329.9	1332.4
27.5°	5185.1	3680.9	1521.7	1133.2	1175.5	1267.6	1265.1	1255.2	1270.1	1257.7	1270.1
30°	5175.1	3397.0	1277.6	1043.5	1113.2	1180.5	1185.5	1202.9	1220.3	1197.9	1220.3
32.5°	5190.1	3085.7	1103.3	988.7	1075.9	1078.4	1133.2	1150.6	1138.1	1088.3	1093.3
35°	5304.7	2846.6	976.3	958.8	1016.1	1018.6	1070.9	1048.5	993.7	963.8	981.2
37.5°	5546.2	2647.3	916.5	931.4	936.4	968.8	971.3	926.4	931.4	928.9	938.9
40°	5855.0	2495.4	874.1	906.5	901.5	924.0	834.3	859.2	881.6	889.1	894.1
42.5°	6066.7	2385.8	846.8	866.7	856.7	816.9	767.1	792.0	809.4	836.8	841.8
45°	6161.4	2298.7	814.4	796.9	796.9	724.7	704.8	709.8	749.6	779.5	774.5
47.5°	6007.0	2214.0	757.1	704.8	722.2	662.5	640.0	640.0	682.4	719.7	712.3
48°	5947.2	2179.1	759.6	684.9	697.3	652.5	630.1	625.1	672.4	707.3	707.3
50°	5650.8	2049.6	694.8	630.1	605.2	600.2	585.3	590.2	620.1	652.5	652.5
52.5°	5073.0	1770.7	587.7	540.4	495.6	525.5	533.0	523.0	537.9	567.8	565.3
55°	4233.8	1359.8	470.7	448.3	413.4	445.8	460.7	448.3	433.3	455.8	455.8
57.5°	2712.1	732.2	376.1	381.0	346.2	378.5	391.0	361.1	333.7	351.2	348.7
60°	1222.8	438.3	308.8	301.3	278.9	316.3	336.2	301.3	264.0	276.4	288.9
62.5°	458.2	311.3	234.1	229.1	224.1	259.0	269.0	241.6	204.2	211.7	214.2
65°	336.2	273.9	186.8	169.4	179.3	204.2	199.2	171.8	146.9	146.9	151.9
67.5°	286.4	239.1	151.9	132.0	132.0	134.5	124.5	109.6	102.1	107.1	112.1
70°	224.1	189.3	119.5	102.1	92.1	82.2	72.2	69.7	62.3	69.7	67.2
72.5°	144.4	127.0	92.1	77.2	69.7	57.3	47.3	44.8	37.4	34.9	34.9
75°	77.2	77.2	72.2	62.3	54.8	44.8	37.4	29.9	19.9	14.9	14.9
77.5°	54.8	59.8	64.8	59.8	49.8	37.4	29.9	19.9	10.0	5.0	5.0
80°	52.3	59.8	64.8	57.3	49.8	37.4	27.4	14.9	7.5	2.5	2.5
82.5°	47.3	54.8	59.8	52.3	44.8	32.4	24.9	14.9	7.5	2.5	2.5
85°	10.0	12.5	14.9	14.9	17.4	22.4	17.4	12.5	5.0	2.5	2.5
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	5.0	5.0	2.5	2.5	2.5
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)