

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: P450739

Luminaire Tested: **GALN-SA1C-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5146 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

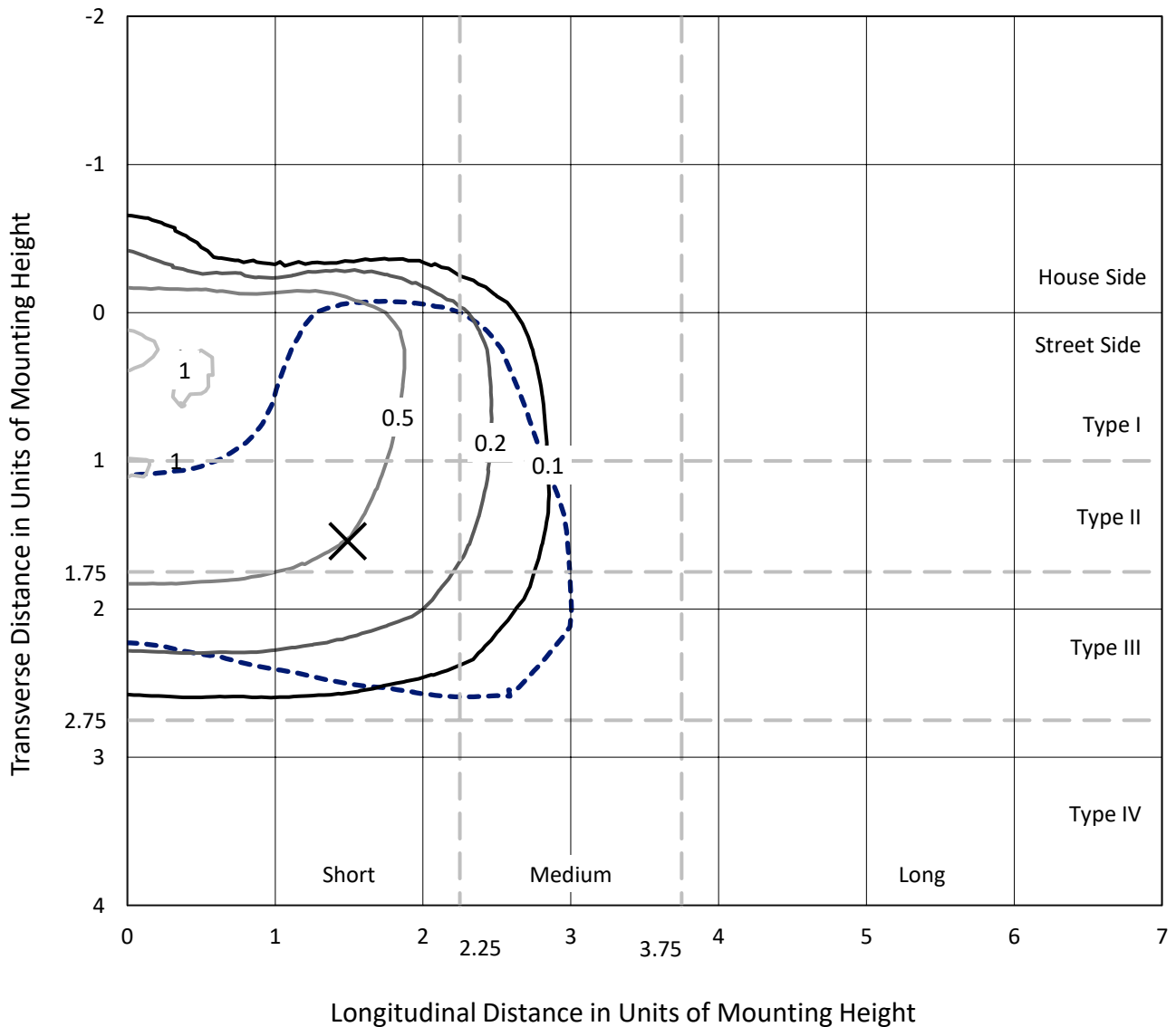
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

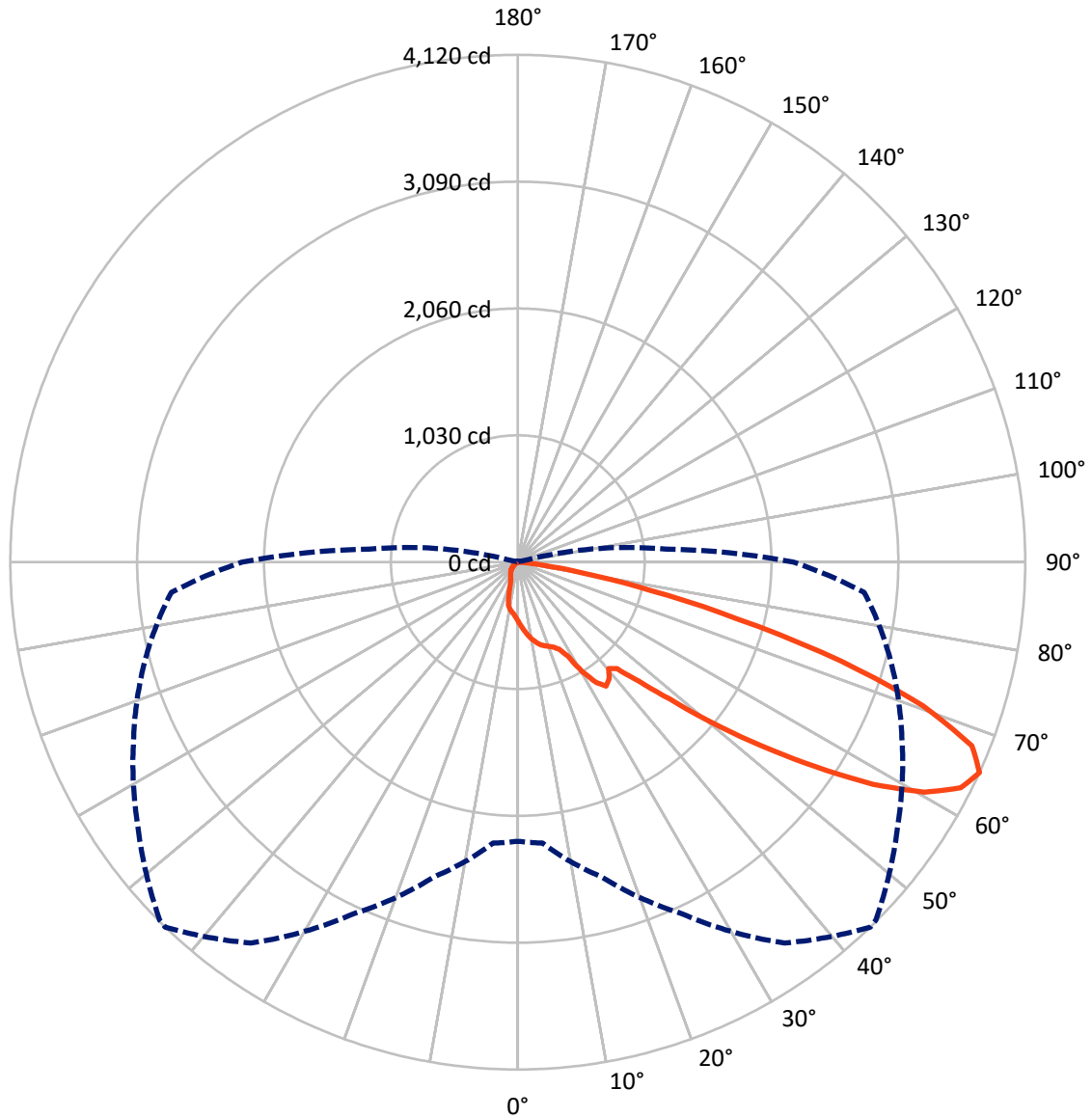
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	474.1	0.0	474.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	4671.9	0.0	4671.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	5146.0	0.0	5146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	0.9
10°-20°	143.4	2.8
20°-30°	243.1	4.7
30°-40°	404.2	7.9
40°-50°	705.7	13.7
50°-60°	1378.7	26.8
60°-70°	1599.7	31.1
70°-80°	582.5	11.3
80°-90°	41.0	0.8
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°	5146.0	100.0
0°-180°	5146.0	100.0



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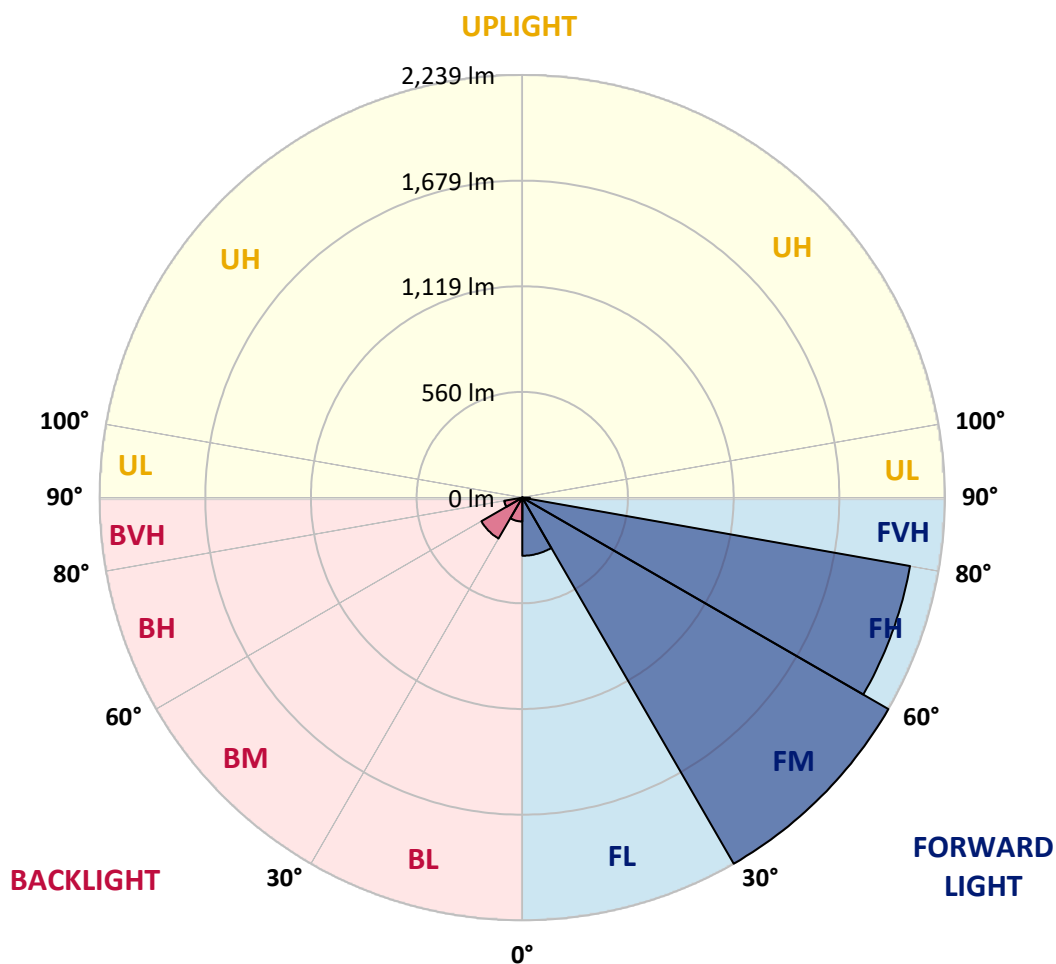
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.8	6.0			
FM	(30°-60°)	2238.5	43.5			
FH	(60°-80°)	2085.1	40.5			G2/5000
FVH	(80°-90°)	40.5	0.8			G1/100
BL	(0°-30°)	126.3	2.5	B1/500		
BM	(30°-60°)	250.2	4.9	B1/1000		
BH	(60°-80°)	97.1	1.9	B0/110		G0/110
BVH	(80°-90°)	0.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	539.1	536.7	535.6	529.3	524.6	518.7	518.7	511.2	502.5	493.1	484.4
5°	599.3	595.3	590.2	584.7	573.7	558.0	558.0	542.2	524.2	508.0	490.3
7.5°	657.1	653.5	644.9	634.3	616.2	599.7	598.5	575.7	554.0	529.7	504.5
10°	707.8	705.0	697.6	677.1	658.2	636.6	636.2	610.7	585.5	555.6	524.6
12.5°	743.2	743.6	733.7	714.1	689.7	669.3	667.7	642.5	616.2	583.9	545.8
15°	768.3	768.3	758.1	736.1	714.1	696.0	694.4	672.4	645.3	610.3	569.0
17.5°	775.4	777.8	766.8	747.1	729.4	713.7	713.3	694.8	673.2	639.4	592.6
20°	772.7	775.0	766.4	751.0	738.9	729.8	728.6	721.2	701.1	669.3	617.7
22.5°	766.8	769.1	762.8	753.8	747.9	750.7	748.7	755.0	744.4	705.8	647.6
25°	768.0	770.3	765.6	760.5	765.6	782.5	787.6	814.7	805.3	752.2	679.9
27.5°	804.9	809.6	803.0	805.3	823.4	862.7	872.6	919.3	877.7	811.2	730.2
30°	887.1	884.0	871.4	882.8	945.7	1029.1	1026.3	1018.8	953.6	879.2	790.0
32.5°	961.8	959.1	958.3	1007.4	1121.5	1162.0	1160.0	1087.6	1021.6	957.1	849.0
35°	992.1	981.5	979.1	1098.3	1289.0	1235.5	1223.3	1116.0	1104.2	1042.0	909.1
37.5°	1083.3	1075.8	1039.3	1113.2	1222.1	1204.4	1195.0	1164.7	1192.2	1117.1	977.1
40°	1271.3	1250.4	1217.4	1145.0	1127.4	1134.8	1144.3	1227.2	1296.4	1219.8	1068.0
42.5°	1504.8	1500.1	1438.8	1303.9	1171.4	1181.6	1193.8	1357.8	1446.3	1374.3	1216.2
45°	1785.2	1791.9	1703.4	1544.2	1370.4	1379.0	1396.7	1550.5	1649.2	1614.6	1449.4
47.5°	2040.0	2034.9	2005.0	1839.5	1679.0	1659.8	1688.5	1797.8	1929.9	1935.4	1738.8
50°	2296.4	2323.5	2279.1	2214.2	2095.1	2054.6	2043.9	2097.4	2298.8	2272.4	2086.4
52.5°	2664.8	2679.0	2595.6	2579.1	2606.2	2474.9	2464.3	2477.3	2657.4	2566.9	2346.7
55°	2896.4	2888.2	2857.1	2986.1	3093.4	2929.5	2916.1	2863.8	2955.0	2774.9	2597.2
57.5°	2969.6	2981.4	3053.7	3286.9	3540.9	3401.7	3377.3	3228.7	3169.7	2968.8	2827.6
60°	2936.9	2958.6	3114.7	3461.5	3813.8	3793.0	3772.1	3522.4	3323.9	3130.8	2989.2
62.5°	2704.6	2734.8	2984.5	3430.4	3906.2	4036.4	4010.4	3705.7	3426.5	3209.4	3017.6
65°	2266.5	2288.9	2647.5	3148.5	3774.9	4119.7	4110.3	3763.1	3442.6	3137.5	2823.7
67.5°	1615.7	1692.0	2024.3	2653.4	3386.4	3977.4	3993.5	3694.3	3291.2	2826.4	2338.5
70°	1015.7	1067.6	1305.9	1899.6	2714.8	3489.4	3542.5	3379.3	2856.3	2203.2	1565.4
72.5°	484.4	523.0	692.8	1202.5	1916.1	2745.4	2787.5	2774.2	2208.7	1388.1	807.7
75°	215.9	230.4	330.7	613.8	1237.1	1845.4	1954.3	1972.4	1380.2	679.1	314.2
77.5°	110.1	110.5	154.9	297.3	617.7	1101.0	1122.6	1185.9	748.3	299.2	109.3
80°	58.6	62.5	82.2	140.4	320.5	542.2	539.5	593.0	331.9	146.7	36.6
82.5°	26.3	29.1	46.4	73.5	156.5	205.7	221.8	242.6	142.3	93.6	16.1
85°	7.9	9.4	22.8	37.0	56.6	59.4	66.5	85.7	80.6	66.5	8.3
87.5°	1.2	1.2	9.4	10.2	8.3	10.6	11.0	12.2	26.0	24.4	4.3
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°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	479.7	477.0	467.1	458.9	451.8	447.5	442.4	439.2	437.7	436.5	436.9
5°	481.7	475.0	458.1	444.7	434.5	423.5	416.0	411.7	409.7	406.6	406.6
7.5°	492.7	482.1	458.5	438.0	420.3	405.4	391.3	386.1	382.6	381.8	381.0
10°	508.4	495.1	462.8	434.5	409.3	388.9	368.8	351.1	337.4	329.1	327.9
12.5°	528.1	508.8	469.5	432.1	399.9	363.7	310.6	274.9	250.9	243.4	244.6
15°	546.2	525.3	476.2	430.2	382.6	301.6	241.4	200.5	188.4	187.2	187.6
17.5°	567.8	543.0	484.1	427.4	335.0	230.4	179.3	168.3	170.7	174.6	174.2
20°	590.2	561.9	493.5	410.9	267.4	173.4	158.5	159.6	163.2	166.7	167.5
22.5°	614.2	583.5	504.5	371.2	204.1	151.0	150.2	151.8	155.3	159.3	160.0
25°	647.2	610.7	512.8	319.3	154.5	139.6	141.2	143.9	147.1	151.4	152.2
27.5°	689.7	647.2	517.1	251.7	133.7	129.4	129.8	133.7	137.6	141.6	141.6
30°	744.8	690.9	508.4	190.3	123.5	119.5	118.0	120.3	125.4	129.4	129.8
32.5°	793.9	732.2	485.6	145.5	116.0	110.5	106.6	107.0	108.9	111.3	111.7
35°	843.1	772.3	446.7	122.3	108.1	101.8	95.9	92.8	91.2	90.0	91.2
37.5°	906.0	822.2	394.8	111.3	101.5	93.6	85.3	78.6	73.1	69.6	70.4
40°	987.0	891.4	333.4	104.2	95.2	85.7	74.7	66.1	56.6	53.5	51.9
42.5°	1120.7	996.4	269.0	98.3	88.9	77.5	63.7	51.9	43.3	40.1	40.9
45°	1331.8	1128.9	207.2	92.0	82.6	68.4	53.5	40.9	33.8	32.2	33.0
47.5°	1611.8	1300.4	159.6	84.9	74.7	58.6	42.1	32.2	27.9	27.5	27.1
50°	1875.3	1460.0	133.3	77.1	65.3	48.8	34.6	27.1	24.4	24.0	24.0
52.5°	2113.5	1574.4	108.5	68.0	55.1	40.1	29.1	24.0	21.6	20.4	20.4
55°	2325.5	1649.2	88.1	57.0	43.3	31.9	25.2	21.6	18.9	17.3	16.9
57.5°	2485.5	1658.2	66.1	45.6	32.2	24.8	21.6	18.9	15.7	13.8	13.0
60°	2553.9	1579.9	48.8	34.6	24.0	19.7	17.3	15.3	11.8	9.8	9.4
62.5°	2485.1	1427.8	36.2	26.3	18.5	14.5	12.2	11.4	8.3	5.9	5.5
65°	2238.6	1208.0	28.7	20.1	13.8	10.6	7.9	7.5	5.1	2.8	2.4
67.5°	1793.5	946.1	22.8	14.9	9.8	7.1	5.1	4.7	2.8	0.8	0.8
70°	1166.3	604.8	18.5	11.0	6.3	4.7	3.1	2.4	1.6	0.4	0.0
72.5°	576.9	282.7	14.9	8.7	4.3	2.4	1.2	0.8	1.2	0.0	0.0
75°	223.7	100.7	11.0	5.9	2.4	1.2	0.8	0.0	0.4	0.0	0.0
77.5°	74.3	33.4	6.7	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	27.5	13.0	3.5	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	5.1	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	3.1	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.4	1.6	1.2	0.8	0.4	0.0	0.0	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)