

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: P458559

Luminaire Tested: **GALN-SA1B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4010 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

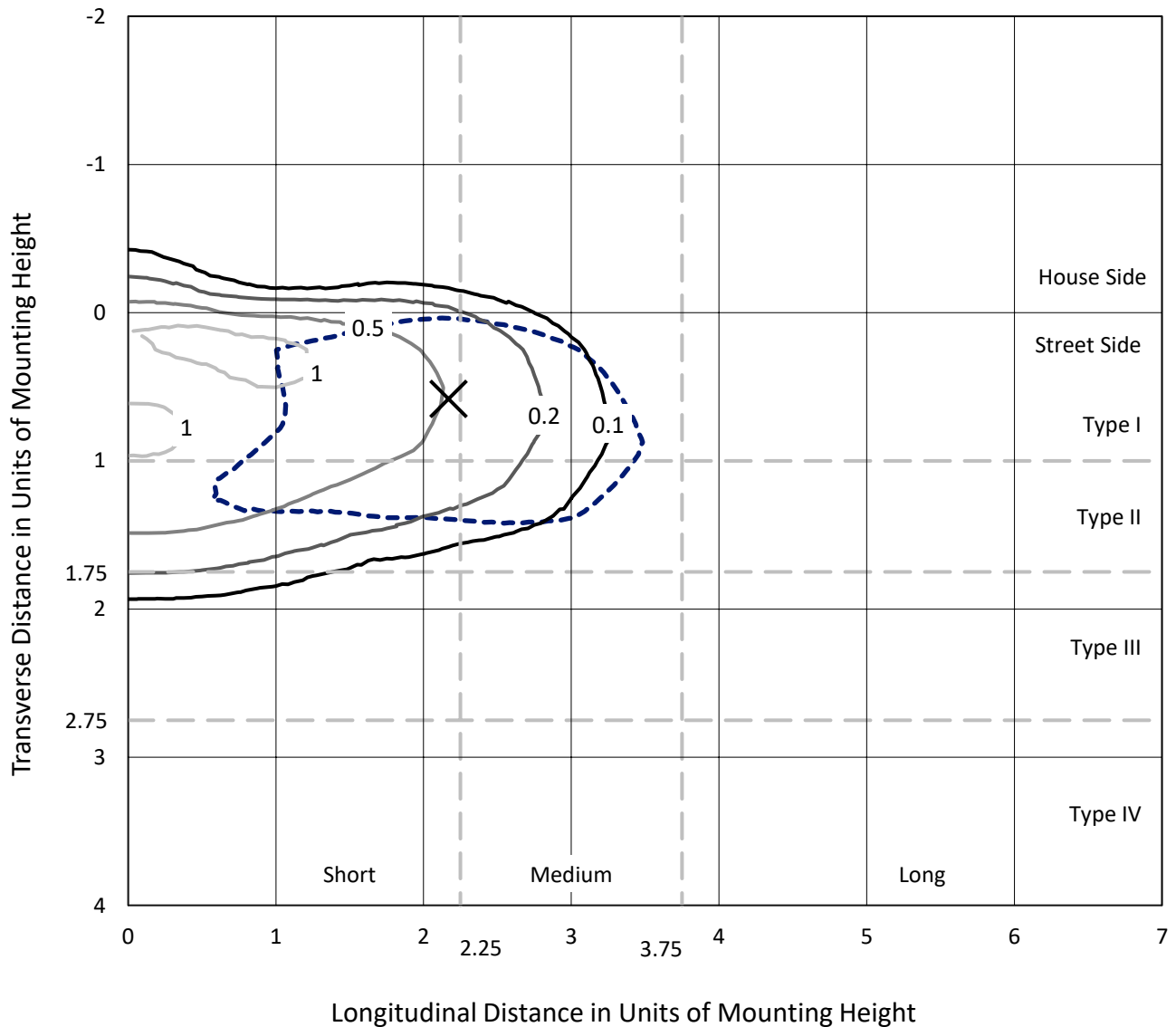
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

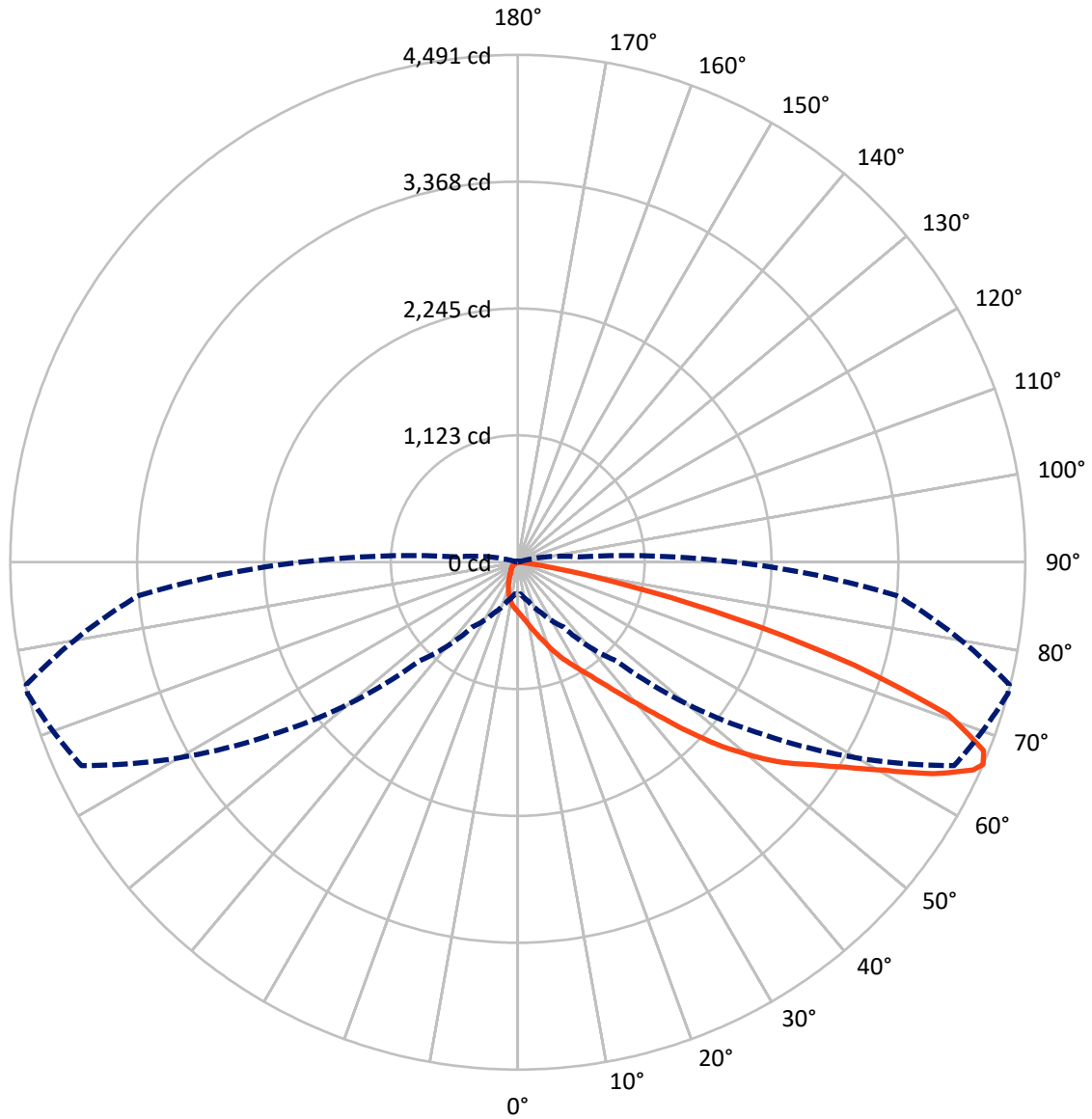
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	247.6	0.0	247.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3762.4	0.0	3762.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	4010.0	0.0	4010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.1
10°-20°	124.5	3.1
20°-30°	215.0	5.4
30°-40°	387.7	9.7
40°-50°	700.5	17.5
50°-60°	1092.0	27.2
60°-70°	1037.4	25.9
70°-80°	388.8	9.7
80°-90°	21.9	0.5
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°	4010.0	100.0
0°-180°	4010.0	100.0

Coefficient of Utilization



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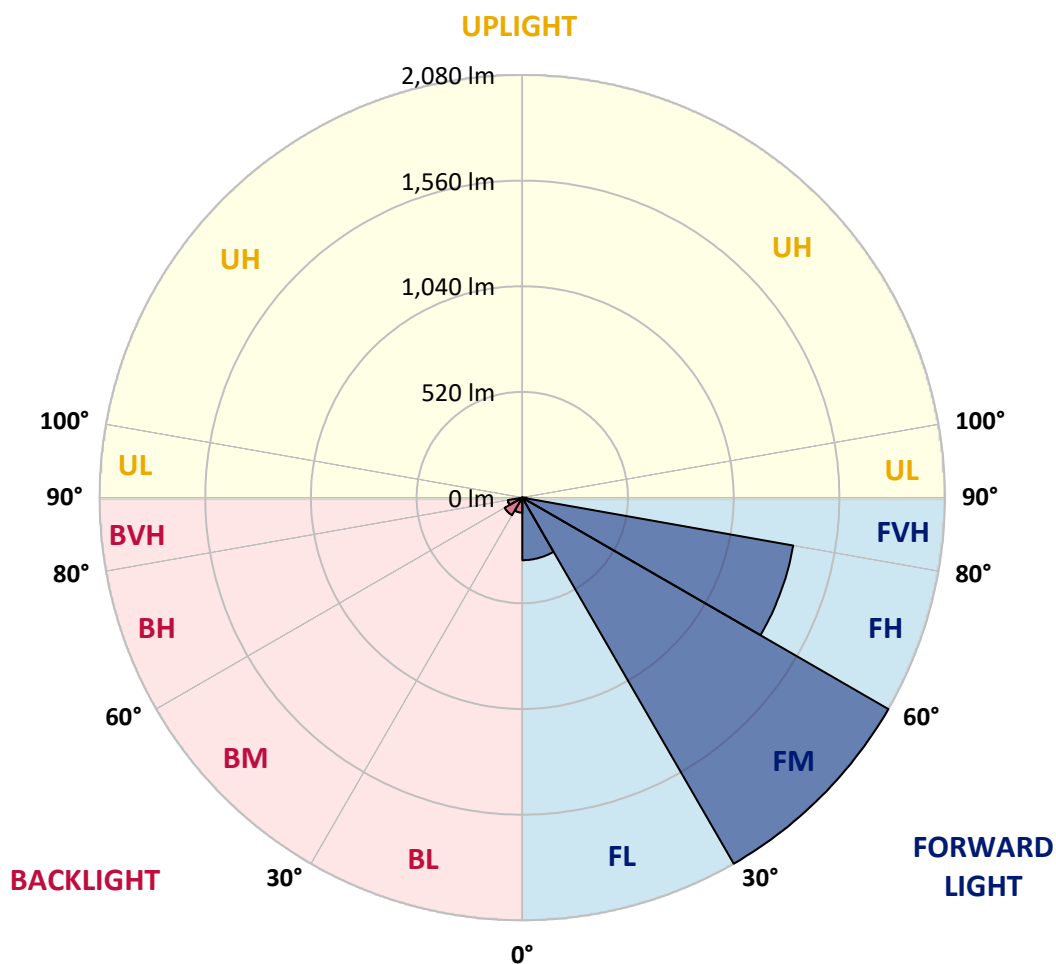
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.8	7.7			
FM (30°-60°)	2080.0	51.9			
FH (60°-80°)	1353.8	33.8			G1/1800
FVH (80°-90°)	20.8	0.5			G1/100
BL (0°-30°)	73.9	1.8	B0/110		
BM (30°-60°)	100.2	2.5	B0/220		
BH (60°-80°)	72.3	1.8	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5
2.5°	523.9	517.4	519.5	516.5	509.7	499.6	490.7	478.0	465.2	463.1	448.9
5°	593.0	591.2	588.9	580.3	575.5	560.1	541.7	519.8	493.4	488.6	462.8
7.5°	640.2	639.3	640.5	636.0	631.9	617.9	598.4	568.4	527.5	524.8	481.8
10°	655.6	657.9	662.4	669.5	676.0	671.6	656.8	619.4	571.7	564.0	503.5
12.5°	646.7	649.3	660.0	679.0	700.1	712.2	706.3	679.0	618.5	612.3	527.8
15°	623.8	627.1	642.2	671.6	709.2	743.6	758.5	738.9	673.1	663.0	557.1
17.5°	590.0	594.8	616.4	655.3	706.9	766.2	808.0	801.5	731.2	721.7	589.2
20°	564.5	568.1	586.5	631.0	696.8	778.6	855.1	873.5	802.9	786.6	626.8
22.5°	581.4	582.6	588.9	615.5	678.7	781.9	896.6	948.5	879.1	864.6	666.0
25°	664.2	652.3	646.1	640.2	674.8	778.9	934.3	1026.8	955.0	939.6	704.8
27.5°	794.6	789.3	757.9	715.8	707.8	782.8	959.2	1100.9	1026.5	1009.9	742.7
30°	936.7	927.5	908.2	846.5	784.6	810.1	977.3	1173.0	1111.0	1089.1	777.4
32.5°	1067.1	1073.1	1044.3	980.8	909.1	868.2	1000.7	1251.6	1208.0	1180.7	817.8
35°	1219.2	1231.1	1186.9	1126.1	1042.2	973.1	1046.4	1340.2	1331.0	1296.6	880.0
37.5°	1373.7	1380.8	1353.8	1268.5	1192.8	1106.6	1132.4	1449.6	1482.5	1453.2	954.5
40°	1503.6	1513.4	1493.5	1417.6	1336.9	1261.0	1257.2	1568.8	1662.8	1632.6	1065.3
42.5°	1602.9	1610.3	1610.9	1557.3	1484.6	1450.2	1416.4	1720.9	1888.7	1853.8	1194.0
45°	1728.3	1739.0	1732.8	1696.3	1642.1	1635.8	1618.3	1904.8	2159.2	2115.0	1361.0
47.5°	1922.3	1929.4	1913.9	1871.0	1815.8	1825.6	1815.2	2110.8	2434.9	2397.0	1533.8
50°	2056.9	2068.7	2090.7	2107.9	2067.8	2031.7	2000.8	2303.3	2696.7	2662.6	1710.5
52.5°	2055.4	2075.0	2144.3	2230.9	2318.4	2307.4	2218.8	2515.9	2946.7	2904.6	1876.6
55°	1916.9	1954.9	2056.9	2210.5	2452.7	2573.4	2533.1	2762.0	3162.5	3134.1	2069.0
57.5°	1631.1	1654.2	1795.9	2010.6	2377.7	2698.5	2897.2	3095.5	3421.4	3408.0	2367.9
60°	1097.1	1107.5	1289.8	1555.2	2024.2	2573.7	3164.0	3499.1	3740.1	3733.6	2716.9
62.5°	628.6	633.0	765.3	989.1	1440.4	2181.1	3186.6	3996.9	4122.3	4125.9	3120.7
65°	338.3	340.7	447.4	580.6	876.5	1554.6	2865.4	4269.7	4431.3	4438.1	3371.0
66°	292.1	280.8	356.1	494.9	697.4	1237.3	2662.3	4259.9	4490.6	4483.2	3362.1
67.5°	222.1	232.2	284.3	380.4	516.8	879.7	2198.0	4070.4	4445.5	4422.4	3225.4
70°	158.9	163.1	202.5	271.3	352.0	482.7	1404.6	3380.8	4040.5	4009.4	2810.0
72.5°	102.6	107.0	143.5	196.3	254.4	263.6	786.3	2442.6	3115.1	3110.6	2116.2
75°	73.2	77.4	94.9	140.5	191.2	163.1	378.6	1646.2	1980.4	1967.0	1309.1
77.5°	53.1	55.2	63.5	91.9	136.7	116.8	175.5	879.1	985.9	1032.4	578.5
80°	30.5	32.3	44.2	56.0	92.5	79.8	83.9	352.8	363.8	346.3	180.9
82.5°	15.1	17.2	26.4	38.2	57.8	53.7	38.5	106.1	112.1	109.1	45.7
85°	3.6	4.4	14.8	25.2	28.2	24.0	18.7	31.1	38.5	37.7	17.5
87.5°	0.3	0.6	5.3	4.4	4.7	8.0	6.5	8.0	12.5	11.6	6.2
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°	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5	438.5
2.5°	442.4	436.8	420.4	404.4	391.1	377.2	364.4	357.0	354.0	350.8	352.2
5°	448.6	435.0	402.1	373.6	345.7	322.0	303.0	290.9	284.9	284.1	282.6
7.5°	456.9	433.5	382.5	338.0	301.5	275.2	253.5	236.0	230.7	225.9	222.1
10°	467.0	430.8	358.2	300.7	261.8	228.6	200.1	179.4	168.7	165.7	167.8
12.5°	477.7	425.8	332.7	266.3	221.5	179.1	152.7	142.3	139.4	138.2	138.5
15°	488.3	419.6	306.0	233.1	176.4	142.9	130.8	128.1	126.9	126.3	125.7
17.5°	498.1	409.5	276.0	200.7	142.9	122.2	117.7	115.3	113.0	112.1	110.6
20°	509.7	397.9	249.1	164.6	121.0	110.6	105.3	100.8	97.3	94.9	94.6
22.5°	520.7	383.1	220.9	136.4	110.3	99.3	90.7	86.0	81.8	78.9	79.8
25°	526.6	365.0	195.7	118.9	100.5	88.1	78.6	72.6	68.2	66.7	66.4
27.5°	526.6	342.8	171.1	108.8	91.6	78.0	68.2	62.6	59.6	57.5	57.8
30°	522.4	318.2	148.3	101.1	83.9	69.1	59.9	54.9	52.5	51.0	50.7
32.5°	519.2	294.7	128.7	93.7	75.9	61.4	53.4	49.5	47.1	45.7	45.7
35°	524.2	274.6	113.6	86.3	68.5	55.4	48.3	44.8	42.4	41.2	40.9
37.5°	537.6	256.2	102.0	78.3	61.7	50.4	44.8	40.6	38.2	36.8	36.2
40°	570.5	245.8	93.4	70.9	55.2	46.3	40.6	36.8	33.8	32.3	32.0
42.5°	623.3	246.1	85.1	64.0	50.1	42.7	37.1	32.6	29.4	27.9	27.6
45°	702.7	257.4	78.6	57.5	45.7	38.8	33.2	28.5	25.5	24.0	24.0
47.5°	797.9	279.3	72.9	51.9	41.5	35.3	29.4	24.6	21.6	20.5	20.5
50°	901.1	307.8	67.3	46.0	38.0	31.4	25.2	21.3	19.0	18.1	18.1
52.5°	1006.3	342.2	61.7	41.2	34.1	27.3	21.6	19.0	16.9	16.3	16.0
55°	1144.5	386.1	55.7	36.2	29.9	23.4	19.3	16.6	14.2	13.3	13.0
57.5°	1357.1	452.2	49.2	31.7	24.6	19.6	16.6	13.9	11.3	9.8	9.5
60°	1613.6	532.8	42.4	27.9	19.9	16.0	13.3	10.7	8.3	6.5	6.2
62.5°	1853.8	584.1	35.9	23.4	15.7	12.2	9.5	8.0	5.9	4.2	3.9
65°	1959.9	566.9	29.7	19.0	12.5	8.6	6.2	5.6	3.6	1.8	1.5
66°	1924.6	541.4	27.3	17.2	11.3	7.4	5.3	4.7	2.7	0.9	0.9
67.5°	1820.6	481.2	23.7	14.8	9.8	5.9	4.2	3.6	1.5	0.3	0.0
70°	1559.9	389.3	18.7	11.0	7.1	4.2	2.4	1.8	0.9	0.0	0.0
72.5°	1198.2	290.0	14.8	8.3	5.0	2.4	1.2	0.6	0.9	0.0	0.0
75°	734.2	165.7	11.6	6.2	3.3	1.5	0.9	0.0	0.9	0.3	0.0
77.5°	325.9	74.4	7.7	4.2	2.4	1.2	0.6	0.0	0.6	0.3	0.0
80°	82.4	24.3	4.4	3.0	1.8	0.9	0.3	0.0	0.6	0.6	0.3
82.5°	22.5	8.9	3.3	2.4	1.5	0.9	0.3	0.0	0.6	0.6	0.6
85°	8.9	4.2	3.0	2.4	1.8	0.9	0.3	0.0	0.6	0.6	0.6
87.5°	4.2	3.0	3.0	2.7	2.1	0.9	0.3	0.0	0.6	0.3	0.6
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)