

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: P458540

Luminaire Tested: **GALN-SA1A-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458540
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-SA1A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 3118 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

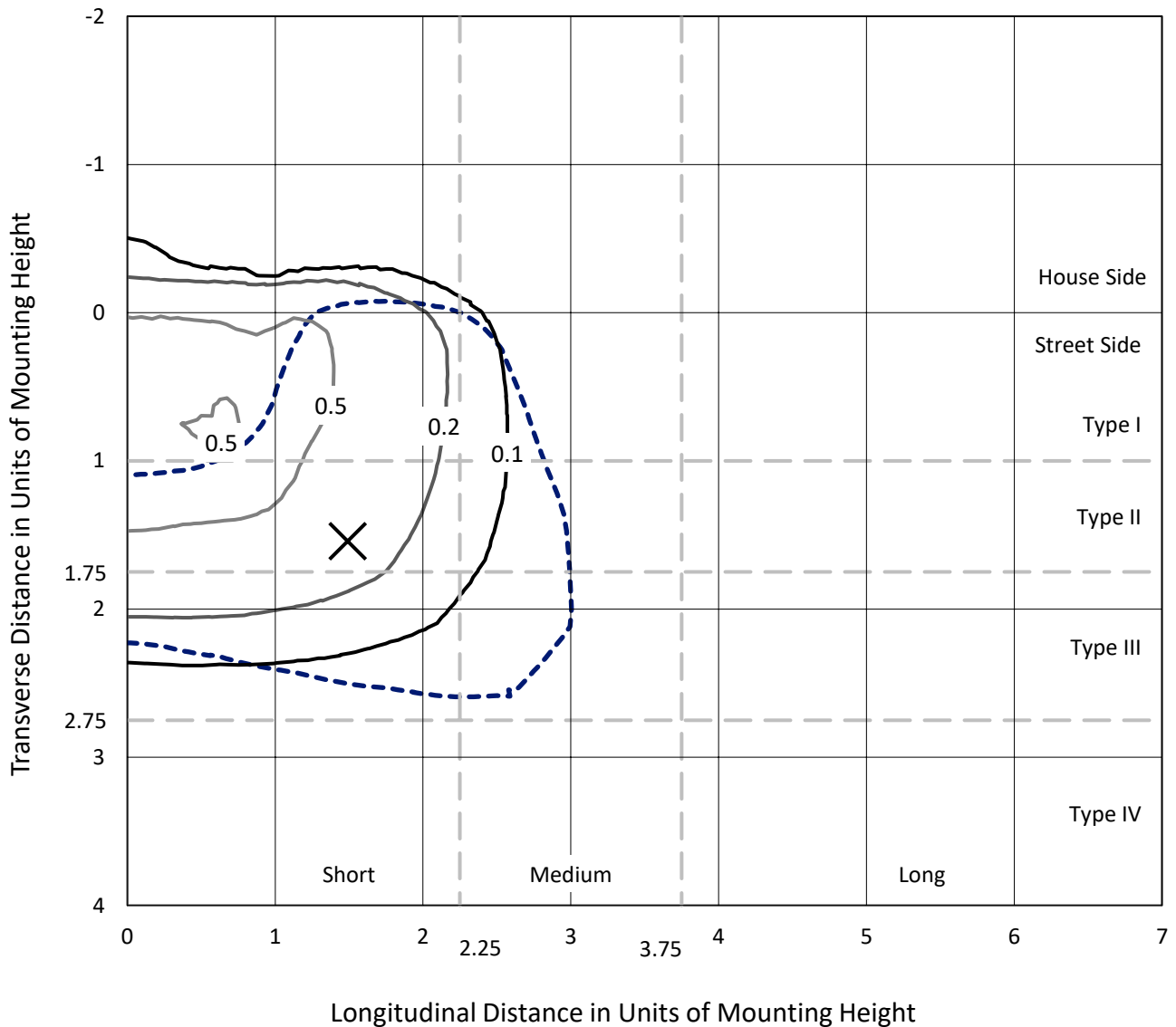
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

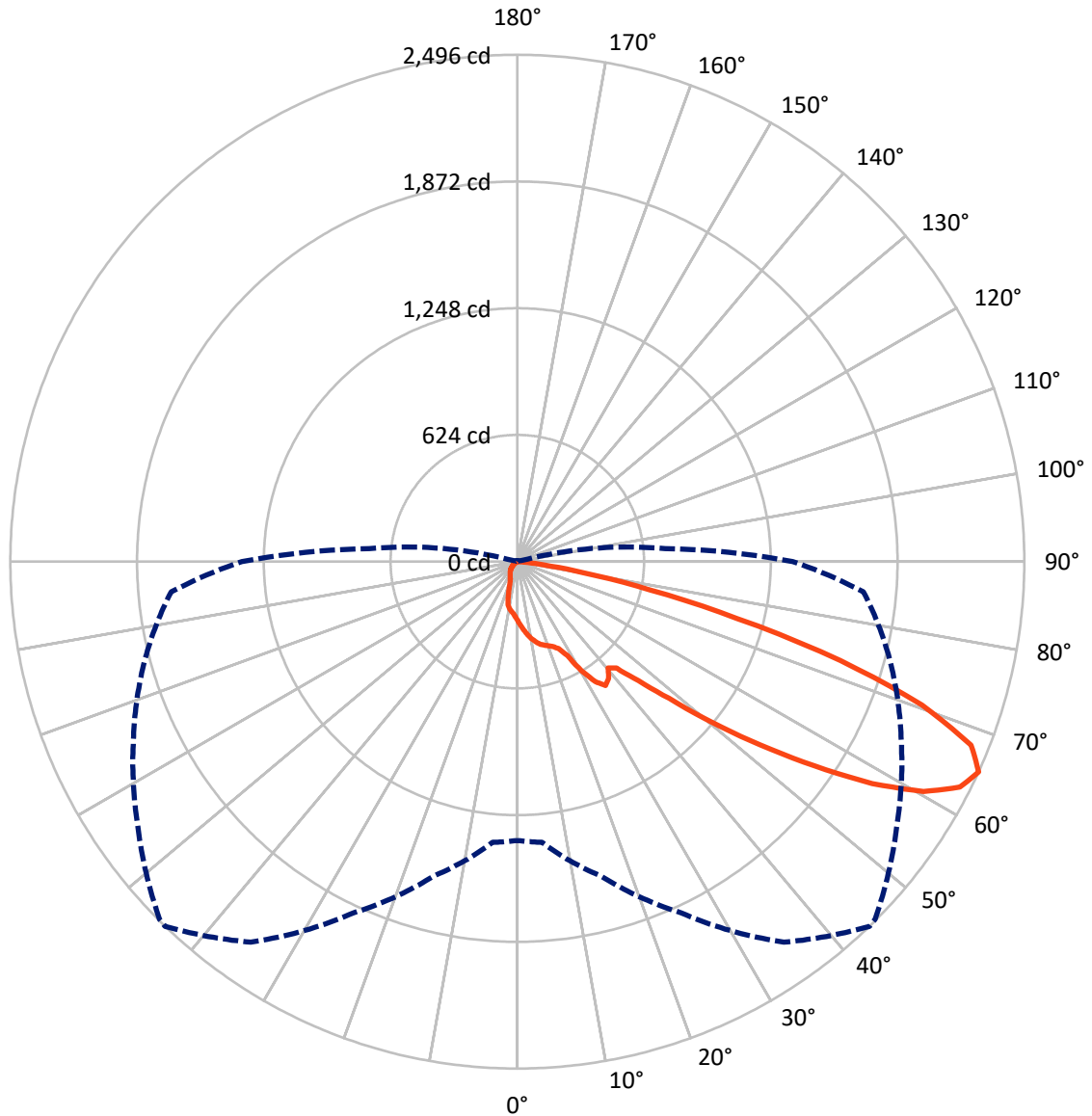
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	287.3	0.0	287.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2830.7	0.0	2830.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	3118.0	0.0	3118.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.9
10°-20°	86.9	2.8
20°-30°	147.3	4.7
30°-40°	244.9	7.9
40°-50°	427.6	13.7
50°-60°	835.4	26.8
60°-70°	969.3	31.1
70°-80°	353.0	11.3
80°-90°	24.9	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°	3118.0	100.0
0°-180°	3118.0	100.0



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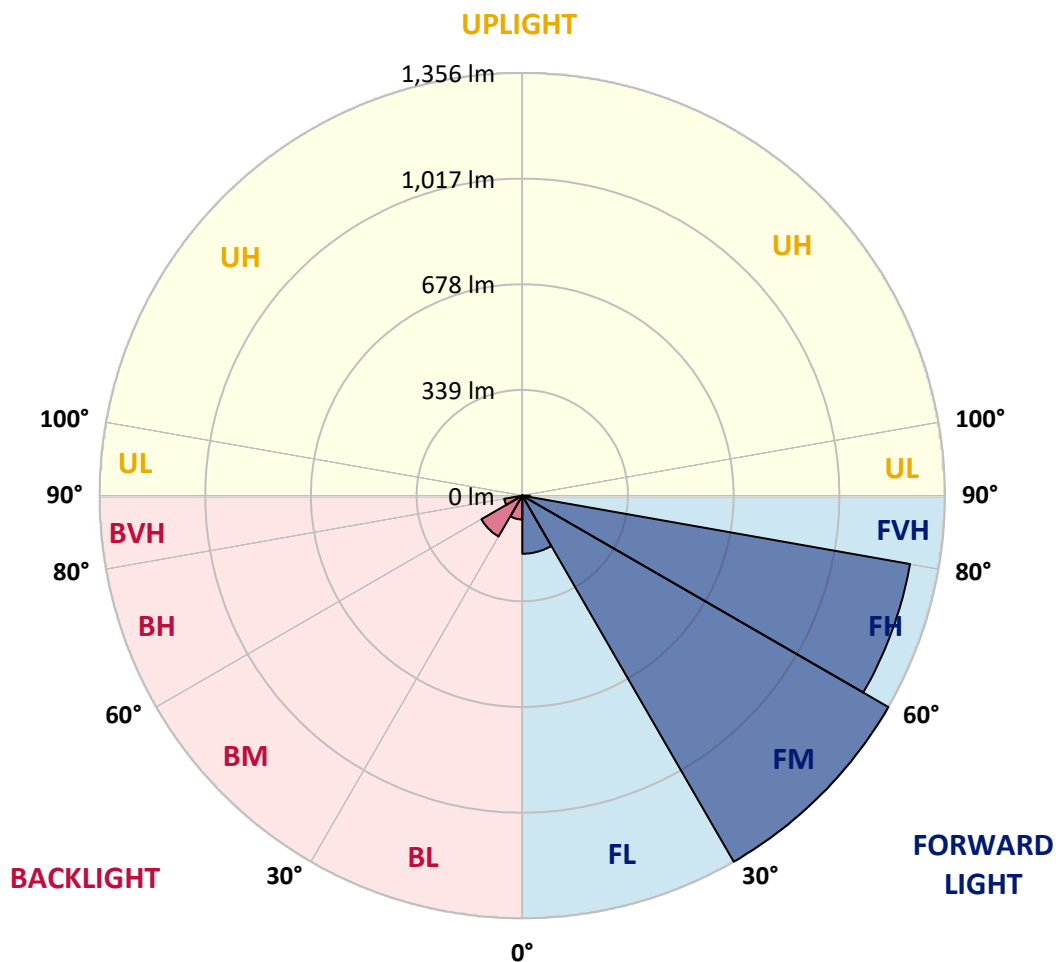
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.5	6.0			
FM (30°-60°)	1356.3	43.5			
FH (60°-80°)	1263.4	40.5			G1/1800
FVH (80°-90°)	24.5	0.8			G1/100
BL (0°-30°)	76.5	2.5	B0/110		
BM (30°-60°)	151.6	4.9	B0/220		
BH (60°-80°)	58.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	326.6	325.2	324.5	320.7	317.8	314.3	314.3	309.7	304.5	298.8	293.5
5°	363.1	360.7	357.6	354.3	347.6	338.1	338.1	328.6	317.6	307.8	297.1
7.5°	398.1	396.0	390.7	384.3	373.3	363.3	362.6	348.8	335.7	320.9	305.7
10°	428.9	427.2	422.7	410.3	398.8	385.7	385.5	370.0	354.8	336.7	317.8
12.5°	450.3	450.5	444.6	432.7	417.9	405.5	404.6	389.3	373.3	353.8	330.7
15°	465.5	465.5	459.4	446.0	432.7	421.7	420.8	407.4	391.0	369.8	344.8
17.5°	469.8	471.3	464.6	452.7	442.0	432.4	432.2	421.0	407.9	387.4	359.0
20°	468.2	469.6	464.4	455.1	447.7	442.2	441.5	437.0	424.8	405.5	374.3
22.5°	464.6	466.0	462.2	456.7	453.2	454.8	453.6	457.4	451.0	427.7	392.4
25°	465.3	466.7	463.9	460.8	463.9	474.1	477.2	493.7	487.9	455.8	411.9
27.5°	487.7	490.6	486.5	487.9	498.9	522.7	528.7	557.0	531.8	491.5	442.4
30°	537.5	535.6	528.0	534.9	573.0	623.5	621.8	617.3	577.8	532.7	478.7
32.5°	582.8	581.1	580.6	610.4	679.5	704.0	702.8	659.0	619.0	579.9	514.4
35°	601.1	594.7	593.3	665.4	781.0	748.6	741.2	676.2	669.0	631.4	550.8
37.5°	656.4	651.9	629.7	674.5	740.5	729.8	724.1	705.7	722.4	676.9	592.1
40°	770.3	757.6	737.6	693.8	683.1	687.6	693.3	743.6	785.5	739.1	647.1
42.5°	911.8	908.9	871.8	790.0	709.8	716.0	723.3	822.7	876.3	832.7	736.9
45°	1081.7	1085.7	1032.1	935.6	830.3	835.6	846.3	939.4	999.2	978.3	878.2
47.5°	1236.1	1233.0	1214.9	1114.6	1017.3	1005.7	1023.1	1089.3	1169.3	1172.7	1053.6
50°	1391.4	1407.8	1380.9	1341.6	1269.4	1244.9	1238.4	1270.8	1392.8	1376.9	1264.2
52.5°	1614.6	1623.2	1572.7	1562.7	1579.1	1499.6	1493.1	1501.0	1610.1	1555.3	1421.9
55°	1755.0	1750.0	1731.2	1809.3	1874.3	1775.0	1766.9	1735.2	1790.5	1681.4	1573.7
57.5°	1799.3	1806.4	1850.3	1991.6	2145.5	2061.1	2046.4	1956.3	1920.6	1798.8	1713.3
60°	1779.5	1792.6	1887.2	2097.3	2310.8	2298.2	2285.6	2134.3	2014.0	1897.0	1811.2
62.5°	1638.7	1657.1	1808.3	2078.5	2366.8	2445.7	2429.9	2245.3	2076.1	1944.6	1828.4
65°	1373.3	1386.9	1604.2	1907.7	2287.2	2496.2	2490.5	2280.1	2085.9	1901.0	1710.9
67.5°	979.0	1025.2	1226.5	1607.7	2051.8	2409.9	2419.7	2238.4	1994.2	1712.6	1416.9
70°	615.4	646.9	791.2	1151.0	1644.9	2114.3	2146.4	2047.6	1730.7	1334.9	948.5
72.5°	293.5	316.9	419.8	728.6	1161.0	1663.5	1689.0	1680.9	1338.3	841.0	489.4
75°	130.8	139.6	200.4	371.9	749.5	1118.1	1184.1	1195.1	836.3	411.5	190.4
77.5°	66.7	66.9	93.9	180.1	374.3	667.1	680.2	718.6	453.4	181.3	66.2
80°	35.5	37.9	49.8	85.1	194.2	328.6	326.9	359.3	201.1	88.9	22.2
82.5°	16.0	17.6	28.1	44.6	94.8	124.6	134.4	147.0	86.2	56.7	9.8
85°	4.8	5.7	13.8	22.4	34.3	36.0	40.3	51.9	48.8	40.3	5.0
87.5°	0.7	0.7	5.7	6.2	5.0	6.4	6.7	7.4	15.7	14.8	2.6
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°	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2	290.2
2.5°	290.7	289.0	283.0	278.0	273.8	271.1	268.0	266.1	265.2	264.5	264.7
5°	291.9	287.8	277.6	269.5	263.3	256.6	252.1	249.5	248.3	246.4	246.4
7.5°	298.5	292.1	277.8	265.4	254.7	245.6	237.1	234.0	231.8	231.3	230.9
10°	308.1	300.0	280.4	263.3	248.0	235.6	223.5	212.8	204.4	199.4	198.7
12.5°	320.0	308.3	284.5	261.8	242.3	220.4	188.2	166.5	152.0	147.5	148.2
15°	330.9	318.3	288.5	260.6	231.8	182.7	146.3	121.5	114.1	113.4	113.6
17.5°	344.0	329.0	293.3	259.0	203.0	139.6	108.6	102.0	103.4	105.8	105.5
20°	357.6	340.5	299.0	249.0	162.0	105.1	96.0	96.7	98.9	101.0	101.5
22.5°	372.2	353.6	305.7	224.9	123.7	91.5	91.0	92.0	94.1	96.5	97.0
25°	392.2	370.0	310.7	193.5	93.6	84.6	85.5	87.2	89.1	91.7	92.2
27.5°	417.9	392.2	313.3	152.5	81.0	78.4	78.6	81.0	83.4	85.8	85.8
30°	451.3	418.6	308.1	115.3	74.8	72.4	71.5	72.9	76.0	78.4	78.6
32.5°	481.0	443.6	294.2	88.2	70.3	66.9	64.6	64.8	66.0	67.4	67.7
35°	510.8	467.9	270.7	74.1	65.5	61.7	58.1	56.2	55.3	54.6	55.3
37.5°	548.9	498.2	239.2	67.4	61.5	56.7	51.7	47.7	44.3	42.2	42.6
40°	598.0	540.1	202.0	63.1	57.7	51.9	45.3	40.0	34.3	32.4	31.4
42.5°	679.0	603.7	163.0	59.6	53.8	46.9	38.6	31.4	26.2	24.3	24.8
45°	807.0	684.0	125.6	55.8	50.0	41.5	32.4	24.8	20.5	19.5	20.0
47.5°	976.6	787.9	96.7	51.5	45.3	35.5	25.5	19.5	16.9	16.7	16.4
50°	1136.2	884.6	80.8	46.7	39.6	29.5	21.0	16.4	14.8	14.5	14.5
52.5°	1280.6	954.0	65.8	41.2	33.4	24.3	17.6	14.5	13.1	12.4	12.4
55°	1409.0	999.2	53.4	34.5	26.2	19.3	15.2	13.1	11.4	10.5	10.2
57.5°	1506.0	1004.7	40.0	27.6	19.5	15.0	13.1	11.4	9.5	8.3	7.9
60°	1547.5	957.3	29.5	21.0	14.5	11.9	10.5	9.3	7.1	6.0	5.7
62.5°	1505.8	865.1	21.9	16.0	11.2	8.8	7.4	6.9	5.0	3.6	3.3
65°	1356.4	731.9	17.4	12.2	8.3	6.4	4.8	4.5	3.1	1.7	1.4
67.5°	1086.7	573.2	13.8	9.1	6.0	4.3	3.1	2.9	1.7	0.5	0.5
70°	706.7	366.4	11.2	6.7	3.8	2.9	1.9	1.4	1.0	0.2	0.0
72.5°	349.5	171.3	9.1	5.2	2.6	1.4	0.7	0.5	0.7	0.0	0.0
75°	135.6	61.0	6.7	3.6	1.4	0.7	0.5	0.0	0.2	0.0	0.0
77.5°	45.0	20.3	4.1	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	16.7	7.9	2.1	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.7	3.1	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.9	1.0	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.4	1.0	0.7	0.5	0.2	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)