

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: P450246

Luminaire Tested: **GALN-SA1A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450246
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-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3049 lumens
Efficiency: N/A
Efficacy: 92.4 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

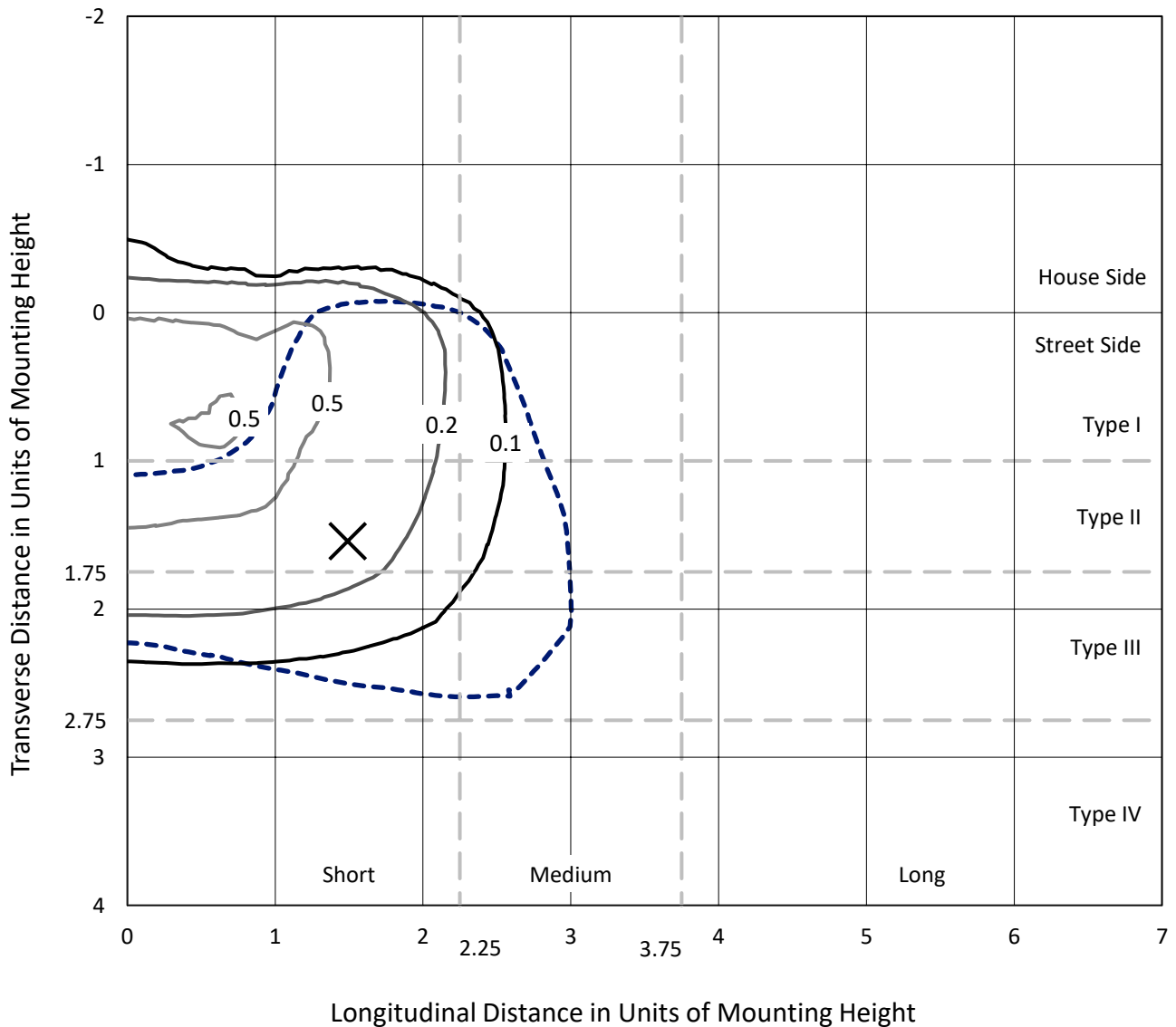
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

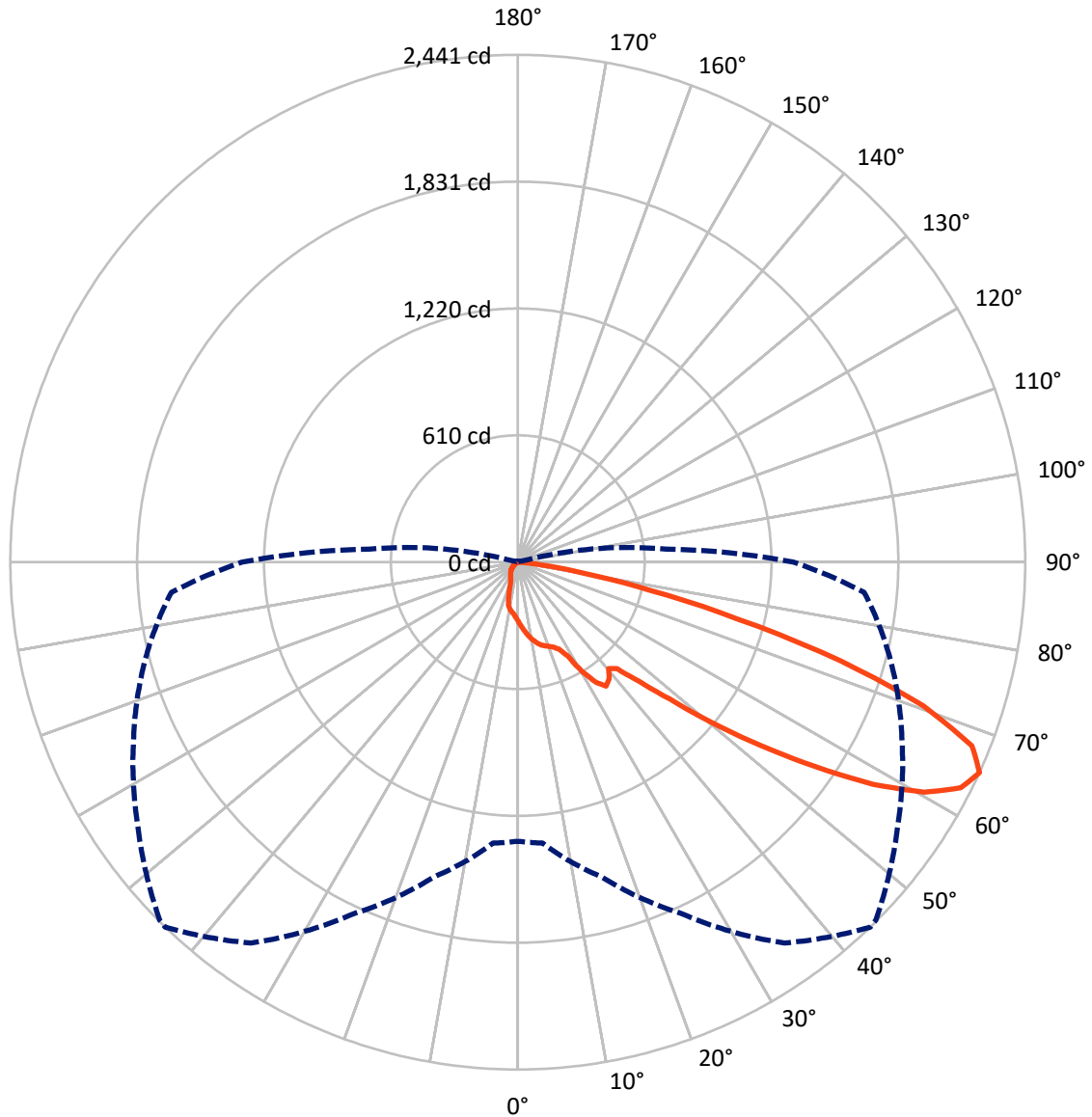
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	280.9	0.0	280.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	2768.1	0.0	2768.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	3049.0	0.0	3049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	0.9
10°-20°	84.9	2.8
20°-30°	144.0	4.7
30°-40°	239.5	7.9
40°-50°	418.1	13.7
50°-60°	816.9	26.8
60°-70°	947.8	31.1
70°-80°	345.1	11.3
80°-90°	24.3	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°	3049.0	100.0
0°-180°	3049.0	100.0

Coefficient of Utilization



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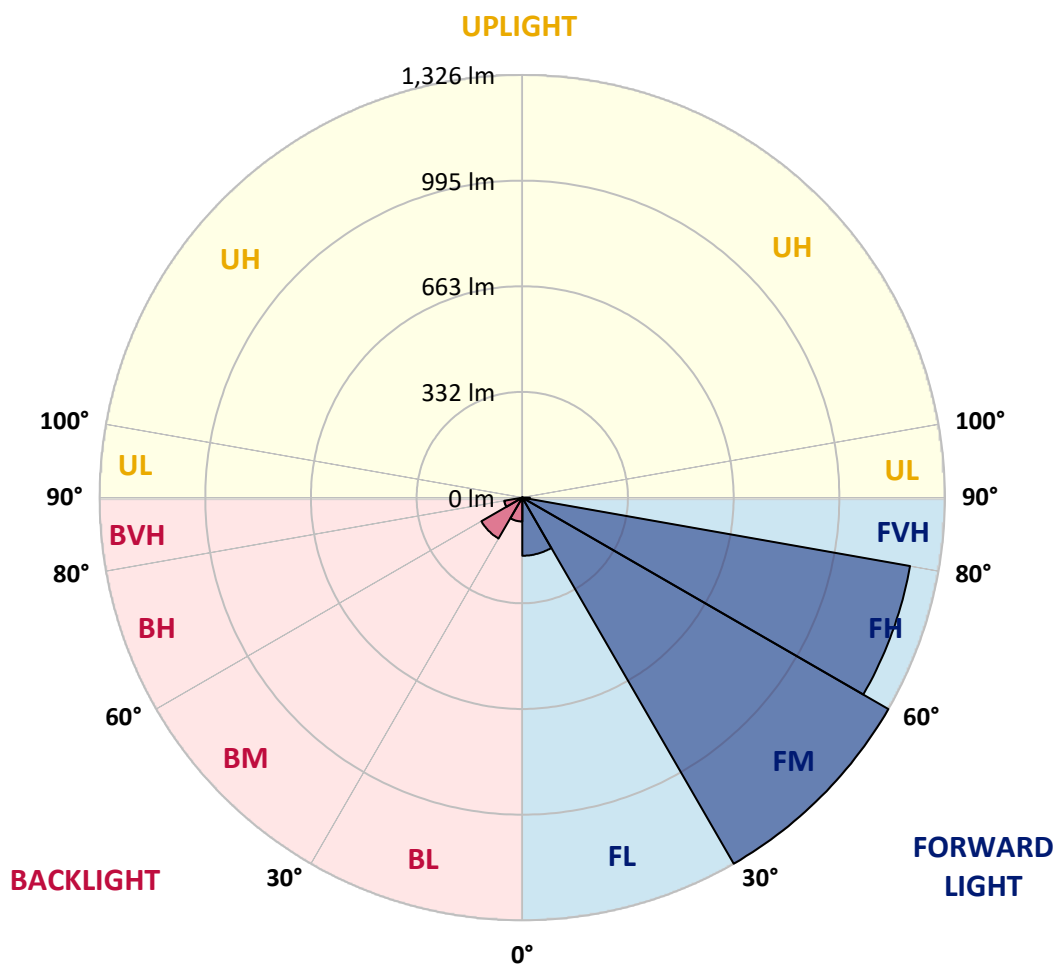
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.4	6.0			
FM (30°-60°)	1326.3	43.5			
FH (60°-80°)	1235.4	40.5			G1/1800
FVH (80°-90°)	24.0	0.8			G1/100
BL (0°-30°)	74.8	2.5	B0/110		
BM (30°-60°)	148.2	4.9	B0/220		
BH (60°-80°)	57.5	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°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	319.4	318.0	317.3	313.6	310.8	307.3	307.3	302.9	297.7	292.2	287.0
5°	355.1	352.7	349.7	346.4	339.9	330.6	330.6	321.3	310.6	301.0	290.5
7.5°	389.3	387.2	382.1	375.8	365.1	355.3	354.6	341.1	328.3	313.8	298.9
10°	419.4	417.7	413.3	401.2	390.0	377.2	377.0	361.8	346.9	329.2	310.8
12.5°	440.3	440.6	434.7	423.1	408.6	396.5	395.6	380.7	365.1	346.0	323.4
15°	455.2	455.2	449.2	436.1	423.1	412.4	411.4	398.4	382.3	361.6	337.1
17.5°	459.4	460.8	454.3	442.7	432.2	422.9	422.6	411.7	398.9	378.8	351.1
20°	457.8	459.2	454.1	445.0	437.8	432.4	431.7	427.3	415.4	396.5	366.0
22.5°	454.3	455.7	452.0	446.6	443.1	444.8	443.6	447.3	441.0	418.2	383.7
25°	455.0	456.4	453.6	450.6	453.6	463.6	466.7	482.7	477.1	445.7	402.8
27.5°	476.9	479.7	475.7	477.1	487.9	511.2	517.0	544.7	520.0	480.6	432.6
30°	525.6	523.7	516.3	523.0	560.3	609.7	608.1	603.7	565.0	520.9	468.1
32.5°	569.9	568.2	567.8	596.9	664.5	688.5	687.3	644.4	605.3	567.1	503.0
35°	587.8	581.5	580.1	650.7	763.7	732.0	724.8	661.2	654.2	617.4	538.7
37.5°	641.9	637.4	615.8	659.6	724.1	713.6	708.0	690.1	706.4	661.9	579.0
40°	753.2	740.9	721.3	678.4	668.0	672.4	678.0	727.1	768.1	722.7	632.8
42.5°	891.6	888.8	852.5	772.6	694.1	700.1	707.3	804.5	856.9	814.3	720.6
45°	1057.7	1061.7	1009.3	914.9	811.9	817.1	827.5	918.6	977.1	956.6	858.8
47.5°	1208.7	1205.7	1188.0	1089.9	994.8	983.4	1000.4	1065.2	1143.5	1146.7	1030.2
50°	1360.6	1376.7	1350.4	1311.9	1241.3	1217.3	1211.0	1242.7	1362.0	1346.4	1236.2
52.5°	1578.9	1587.3	1537.9	1528.1	1544.2	1466.4	1460.1	1467.8	1574.5	1520.9	1390.4
55°	1716.1	1711.2	1692.8	1769.3	1832.9	1735.7	1727.8	1696.8	1750.9	1644.1	1538.8
57.5°	1759.5	1766.5	1809.3	1947.5	2098.0	2015.5	2001.1	1913.0	1878.1	1759.0	1675.4
60°	1740.1	1752.9	1845.4	2050.9	2259.7	2247.3	2235.0	2087.0	1969.4	1855.0	1771.1
62.5°	1602.4	1620.4	1768.3	2032.5	2314.4	2391.6	2376.2	2195.6	2030.2	1901.6	1787.9
65°	1342.9	1356.2	1568.7	1865.5	2236.6	2440.9	2435.4	2229.6	2039.7	1859.0	1673.0
67.5°	957.3	1002.5	1199.4	1572.2	2006.4	2356.6	2366.2	2188.9	1950.1	1674.7	1385.5
70°	601.8	632.5	773.7	1125.5	1608.5	2067.5	2098.9	2002.2	1692.4	1305.4	927.5
72.5°	287.0	309.9	410.5	712.5	1135.3	1626.7	1651.6	1643.7	1308.7	822.4	478.5
75°	127.9	136.5	195.9	363.7	733.0	1093.4	1157.9	1168.6	817.8	402.4	186.2
77.5°	65.2	65.5	91.8	176.1	366.0	652.3	665.2	702.7	443.4	177.3	64.8
80°	34.7	37.0	48.7	83.2	189.9	321.3	319.7	351.3	196.6	86.9	21.7
82.5°	15.6	17.2	27.5	43.6	92.7	121.8	131.4	143.7	84.3	55.4	9.6
85°	4.7	5.6	13.5	21.9	33.5	35.2	39.4	50.8	47.8	39.4	4.9
87.5°	0.7	0.7	5.6	6.1	4.9	6.3	6.5	7.2	15.4	14.4	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°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	284.2	282.6	276.8	271.9	267.7	265.1	262.1	260.2	259.3	258.6	258.8
5°	285.4	281.4	271.4	263.5	257.4	250.9	246.5	243.9	242.8	240.9	240.9
7.5°	291.9	285.6	271.7	259.5	249.1	240.2	231.8	228.8	226.7	226.2	225.8
10°	301.2	293.3	274.2	257.4	242.5	230.4	218.5	208.1	199.9	195.0	194.3
12.5°	312.9	301.5	278.2	256.0	236.9	215.5	184.1	162.9	148.6	144.2	144.9
15°	323.6	311.3	282.1	254.9	226.7	178.7	143.1	118.8	111.6	110.9	111.1
17.5°	336.4	321.7	286.8	253.3	198.5	136.5	106.2	99.7	101.1	103.4	103.2
20°	349.7	332.9	292.4	243.5	158.4	102.7	93.9	94.6	96.7	98.8	99.2
22.5°	363.9	345.7	298.9	219.9	120.9	89.5	89.0	89.9	92.0	94.4	94.8
25°	383.5	361.8	303.8	189.2	91.6	82.7	83.6	85.3	87.1	89.7	90.2
27.5°	408.6	383.5	306.4	149.1	79.2	76.7	76.9	79.2	81.5	83.9	83.9
30°	441.3	409.3	301.2	112.8	73.2	70.8	69.9	71.3	74.3	76.7	76.9
32.5°	470.4	433.8	287.7	86.2	68.7	65.5	63.1	63.4	64.5	65.9	66.2
35°	499.5	457.6	264.7	72.5	64.1	60.3	56.8	55.0	54.1	53.4	54.1
37.5°	536.8	487.2	233.9	65.9	60.1	55.4	50.6	46.6	43.3	41.2	41.7
40°	584.8	528.2	197.6	61.7	56.4	50.8	44.3	39.1	33.5	31.7	30.8
42.5°	664.0	590.4	159.4	58.2	52.7	45.9	37.7	30.8	25.6	23.8	24.2
45°	789.1	668.9	122.8	54.5	48.9	40.5	31.7	24.2	20.0	19.1	19.6
47.5°	955.0	770.5	94.6	50.3	44.3	34.7	24.9	19.1	16.5	16.3	16.1
50°	1111.1	865.1	79.0	45.7	38.7	28.9	20.5	16.1	14.4	14.2	14.2
52.5°	1252.3	932.9	64.3	40.3	32.6	23.8	17.2	14.2	12.8	12.1	12.1
55°	1377.9	977.1	52.2	33.8	25.6	18.9	14.9	12.8	11.2	10.3	10.0
57.5°	1472.7	982.5	39.1	27.0	19.1	14.7	12.8	11.2	9.3	8.2	7.7
60°	1513.2	936.1	28.9	20.5	14.2	11.6	10.3	9.1	7.0	5.8	5.6
62.5°	1472.4	846.0	21.4	15.6	11.0	8.6	7.2	6.8	4.9	3.5	3.3
65°	1326.4	715.7	17.0	11.9	8.2	6.3	4.7	4.4	3.0	1.6	1.4
67.5°	1062.6	560.6	13.5	8.9	5.8	4.2	3.0	2.8	1.6	0.5	0.5
70°	691.0	358.3	11.0	6.5	3.7	2.8	1.9	1.4	0.9	0.2	0.0
72.5°	341.8	167.5	8.9	5.1	2.6	1.4	0.7	0.5	0.7	0.0	0.0
75°	132.6	59.6	6.5	3.5	1.4	0.7	0.5	0.0	0.2	0.0	0.0
77.5°	44.0	19.8	4.0	1.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0
80°	16.3	7.7	2.1	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	3.0	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.9	0.9	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.4	0.9	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)