

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: P450244

Luminaire Tested: **GALN-SA1A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

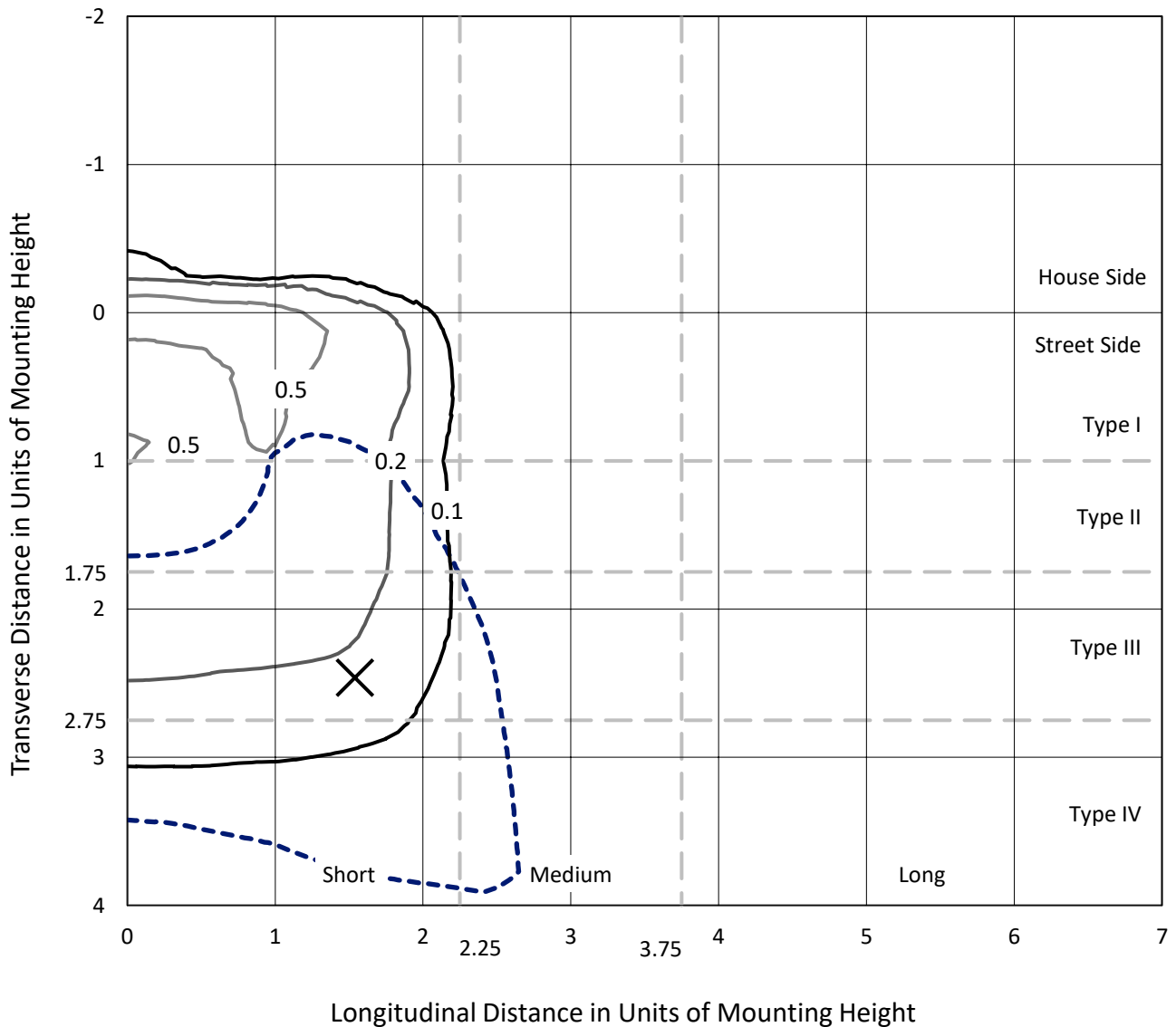
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

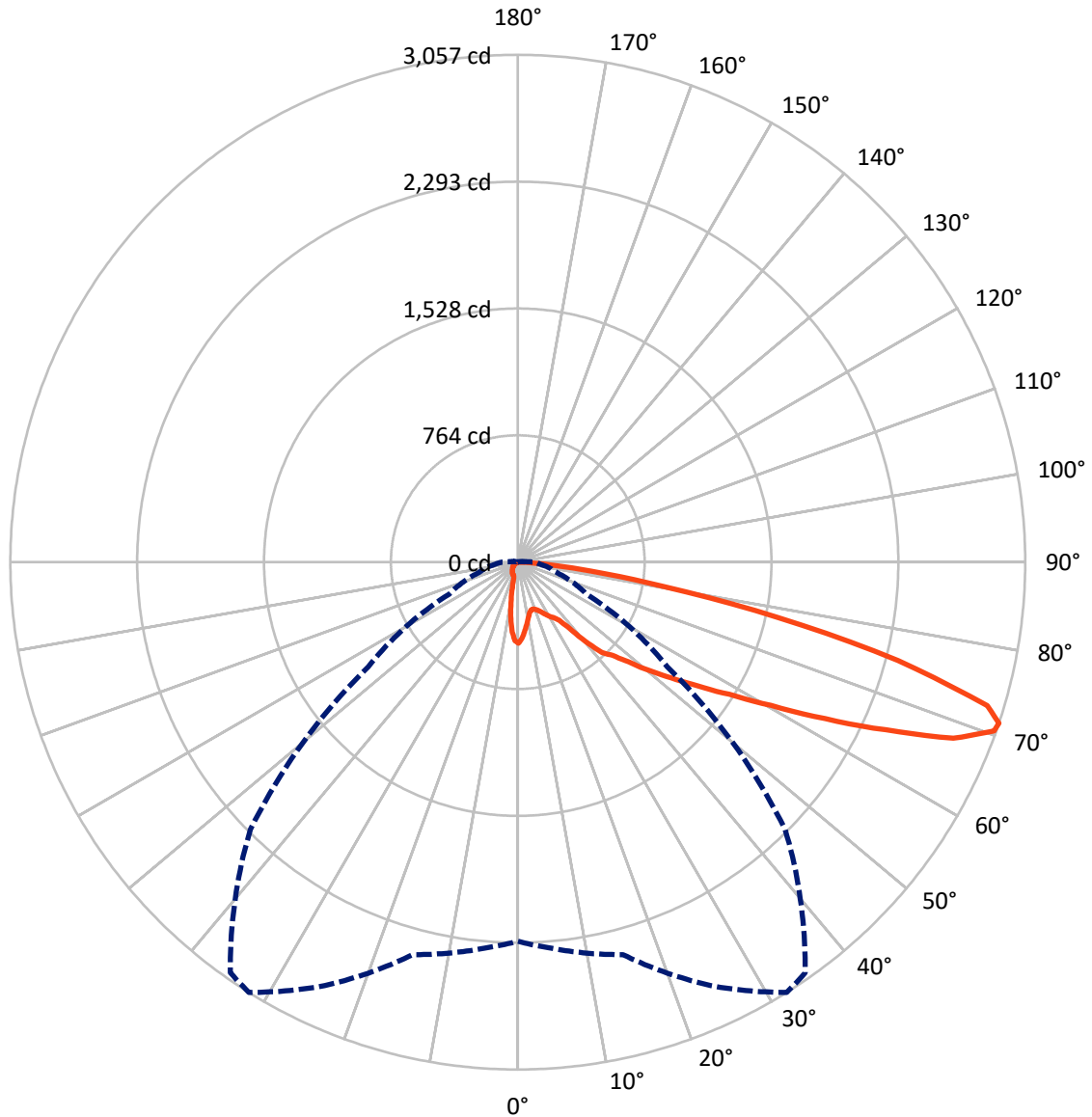
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	254.2	0.0	254.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2780.8	0.0	2780.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	3035.0	0.0	3035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.3
10°-20°	86.1	2.8
20°-30°	134.0	4.4
30°-40°	223.2	7.4
40°-50°	415.3	13.7
50°-60°	666.7	22.0
60°-70°	896.8	29.5
70°-80°	532.1	17.5
80°-90°	41.1	1.4
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°	3035.0	100.0
0°-180°	3035.0	100.0

Coefficient of Utilization

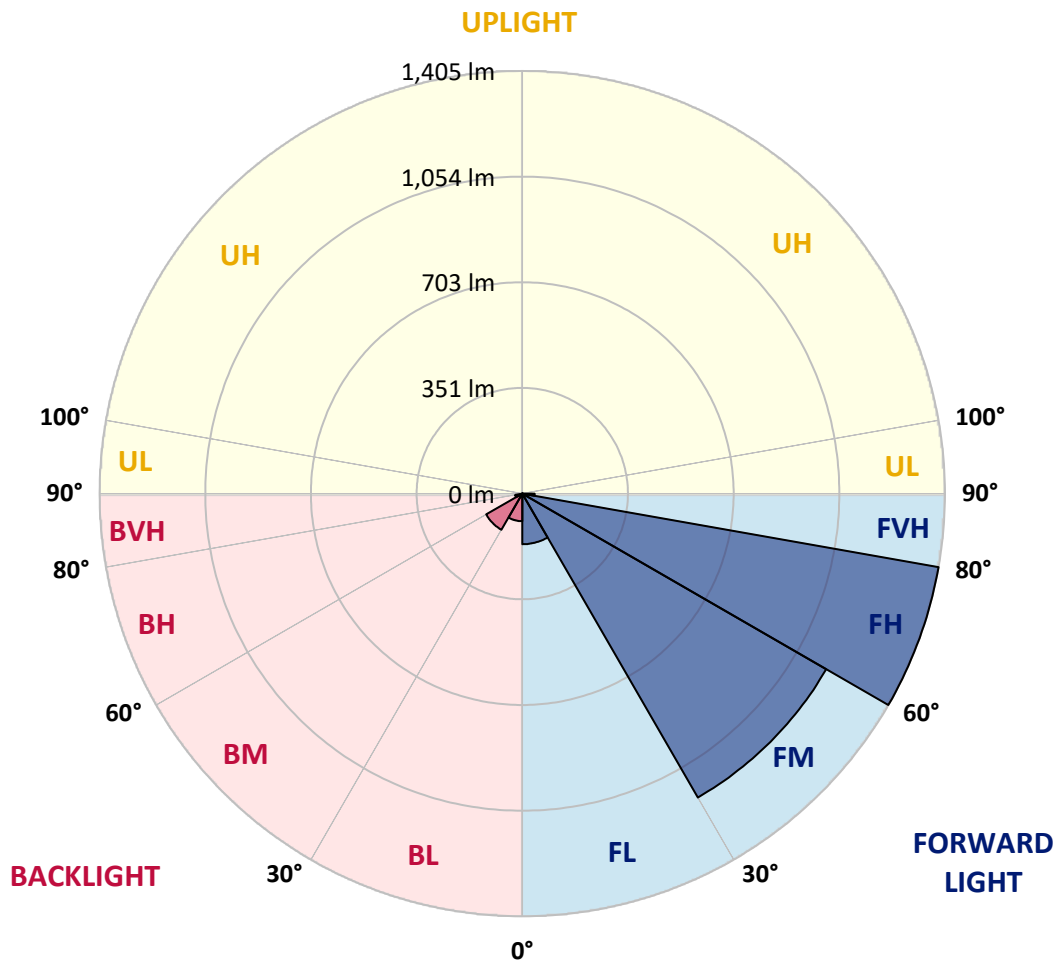


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.2	5.5			
FM (30°-60°)	1166.5	38.4			
FH (60°-80°)	1405.1	46.3			G1/1800
FVH (80°-90°)	41.0	1.3			G1/100
BL (0°-30°)	91.6	3.0	B0/110		
BM (30°-60°)	138.7	4.6	B0/220		
BH (60°-80°)	23.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
2.5°	452.7	457.3	456.6	458.3	462.2	463.8	468.3	473.2	479.9	484.6	487.6
5°	405.4	408.9	409.3	417.5	421.4	425.9	438.9	453.1	469.0	481.6	489.9
7.5°	354.8	356.7	360.4	371.1	381.1	385.6	405.4	430.1	455.0	478.5	493.7
10°	313.1	315.2	322.0	333.4	342.7	348.5	376.0	407.0	441.9	476.9	499.0
12.5°	289.4	290.5	293.1	303.3	315.2	321.5	351.1	386.5	431.5	477.6	508.1
15°	287.7	287.3	284.2	288.4	299.1	305.7	334.5	372.5	422.1	479.9	518.8
17.5°	296.3	295.2	288.0	288.0	296.8	302.2	327.6	365.1	417.5	485.3	534.0
20°	309.6	307.8	295.9	294.9	303.6	309.2	331.8	365.5	418.4	495.3	554.2
22.5°	326.4	324.3	306.4	306.8	316.1	321.7	343.9	373.9	424.2	507.6	575.9
25°	348.3	346.0	324.8	323.8	333.6	338.5	361.8	388.8	432.4	523.0	604.3
27.5°	377.4	372.5	347.1	345.7	356.2	362.5	383.5	408.9	446.8	544.2	642.5
30°	401.4	396.1	371.8	368.1	379.3	384.2	405.8	435.9	475.3	581.3	695.4
32.5°	432.9	424.9	396.5	386.7	398.6	404.9	438.2	486.2	517.4	620.4	758.3
35°	503.7	498.8	464.1	429.8	429.1	437.1	486.0	537.0	560.8	681.4	844.1
37.5°	605.0	601.5	564.7	518.8	505.5	501.8	544.0	592.9	630.0	765.3	943.8
40°	722.7	714.5	680.7	641.8	624.6	613.6	612.5	676.1	720.3	879.2	1047.7
42.5°	807.0	792.1	751.1	748.3	744.6	733.2	700.1	797.7	837.1	1001.8	1158.8
45°	895.5	872.9	811.9	801.4	800.0	799.3	832.4	941.7	964.3	1134.6	1273.0
47.5°	964.3	946.3	896.2	891.6	897.4	913.2	1007.4	1094.5	1089.8	1252.9	1368.7
50°	1055.8	1042.3	986.6	995.5	1025.5	1051.4	1204.7	1261.1	1193.0	1346.1	1438.4
52.5°	1163.9	1139.0	1087.3	1111.3	1157.4	1200.5	1414.1	1406.9	1265.5	1416.2	1490.3
55°	1257.6	1239.9	1222.2	1247.1	1316.1	1369.9	1603.3	1516.2	1318.2	1472.6	1513.2
57.5°	1416.0	1411.8	1393.6	1419.0	1502.7	1558.6	1772.7	1601.0	1351.9	1502.0	1486.4
60°	1650.4	1643.6	1609.8	1642.2	1751.2	1839.1	1928.8	1677.2	1359.6	1490.6	1409.2
62.5°	1932.3	1909.2	1880.3	1928.1	2077.6	2116.3	2075.8	1722.4	1331.0	1399.7	1223.3
65°	2195.5	2171.8	2172.5	2273.1	2436.0	2462.3	2247.2	1715.6	1247.1	1172.1	902.3
67.5°	2397.0	2393.1	2421.5	2617.9	2830.8	2812.7	2400.5	1614.5	998.5	759.7	479.5
70°	2407.3	2415.0	2496.5	2828.0	3044.2	3015.4	2387.5	1312.3	622.5	349.5	188.9
71°	2283.4	2335.1	2447.8	2821.5	3056.8	3019.3	2277.5	1099.2	456.6	243.7	136.3
72.5°	1945.8	1973.0	2216.7	2655.4	2957.3	2877.2	1998.7	770.4	292.4	149.1	78.3
75°	1071.7	1138.8	1484.5	2083.2	2365.4	2295.0	1302.5	366.0	145.8	81.5	32.4
77.5°	510.2	497.2	724.3	1238.9	1603.8	1600.0	656.3	162.6	85.0	55.2	16.3
80°	145.8	164.0	277.2	589.0	890.4	900.2	252.1	78.5	58.9	43.1	8.4
82.5°	44.0	45.0	101.8	260.5	442.9	417.5	94.6	40.1	42.4	34.2	4.9
85°	7.7	9.6	30.1	91.8	168.9	128.1	23.8	19.1	28.0	22.6	2.8
87.5°	0.5	0.7	10.0	10.5	14.9	8.6	4.2	2.8	6.1	6.1	1.6
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°	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1	488.1
2.5°	489.7	491.1	490.2	488.1	484.6	480.4	474.8	470.1	466.2	464.1	466.6
5°	492.7	494.6	489.9	479.5	463.6	446.4	426.8	411.7	399.8	396.1	394.7
7.5°	497.4	498.6	486.0	462.7	429.1	388.4	352.7	322.7	299.4	292.4	282.1
10°	503.5	502.8	479.0	435.7	376.7	315.4	260.2	219.2	188.2	177.1	176.1
12.5°	512.8	509.0	470.1	398.8	314.3	234.1	165.9	129.8	110.2	103.7	102.3
15°	524.4	515.6	456.2	355.7	240.7	151.2	102.3	91.3	88.8	88.3	87.8
17.5°	538.2	524.2	437.8	302.9	169.1	98.1	85.5	85.3	85.5	85.0	84.8
20°	556.8	533.3	415.9	240.2	111.8	82.7	81.5	81.5	81.8	81.5	81.5
22.5°	576.6	544.0	388.8	183.3	84.3	78.5	78.3	78.7	79.2	79.0	79.0
25°	601.1	558.0	353.2	125.6	75.5	75.0	75.2	76.2	77.1	77.3	77.1
27.5°	636.5	575.2	315.0	86.4	69.2	69.7	72.0	74.3	75.7	75.9	75.9
30°	676.3	594.3	265.1	70.1	64.1	64.1	66.9	71.3	74.3	74.8	75.0
32.5°	727.6	616.4	209.9	63.1	59.2	58.7	61.3	66.6	72.2	73.9	73.9
35°	790.9	642.5	156.1	58.7	55.7	54.5	55.9	60.3	67.6	72.2	72.7
37.5°	865.3	667.2	114.2	54.7	52.4	50.8	51.7	55.2	61.0	68.0	69.9
40°	934.0	689.1	85.3	51.5	49.2	48.0	48.7	50.3	55.2	61.7	62.9
42.5°	1009.0	706.1	67.8	48.0	45.9	45.4	45.4	46.1	49.4	53.1	53.4
45°	1083.8	712.2	56.8	43.8	42.4	42.9	42.6	42.2	43.6	43.1	43.1
47.5°	1137.1	705.0	47.1	39.8	39.8	40.5	39.4	37.7	37.0	34.2	34.5
50°	1173.7	678.6	38.7	35.2	37.0	38.0	35.6	33.1	30.5	27.5	26.8
52.5°	1188.9	631.8	31.7	29.1	32.8	34.0	31.2	28.2	24.2	21.7	21.0
55°	1179.1	574.0	26.3	23.8	27.7	29.1	26.3	22.8	18.4	15.6	15.1
57.5°	1136.0	505.1	22.4	18.9	22.1	23.1	21.2	17.5	13.0	10.3	10.3
60°	1061.4	433.8	18.2	14.9	16.5	17.9	16.1	12.6	8.9	6.3	5.8
62.5°	910.2	352.3	14.7	11.6	11.6	12.8	11.2	9.1	5.6	3.3	3.0
65°	657.2	241.6	11.6	8.6	8.4	8.4	7.0	6.1	3.3	1.4	0.9
67.5°	357.1	136.3	9.3	6.5	5.8	5.6	4.4	3.5	1.4	0.2	0.0
70°	140.5	52.4	7.2	4.4	3.7	3.5	2.3	1.6	0.9	0.0	0.0
71°	95.3	36.1	6.3	3.7	3.0	2.6	1.9	1.4	0.7	0.0	0.0
72.5°	54.5	22.4	4.9	2.8	2.3	1.9	1.4	0.9	0.7	0.0	0.0
75°	23.8	11.4	3.0	2.1	1.6	1.2	0.9	0.7	0.2	0.0	0.0
77.5°	12.1	6.3	2.1	1.6	0.9	0.7	0.5	0.2	0.0	0.0	0.0
80°	6.8	3.3	1.4	0.9	0.7	0.5	0.2	0.2	0.0	0.0	0.0
82.5°	3.7	1.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.5	0.0	0.0	0.0	0.0	0.2	0.2	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)