

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: P450275

Luminaire Tested: **GALN-SA1A-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450275
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-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 3347 lumens
Efficiency: N/A
Efficacy: 101.4 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

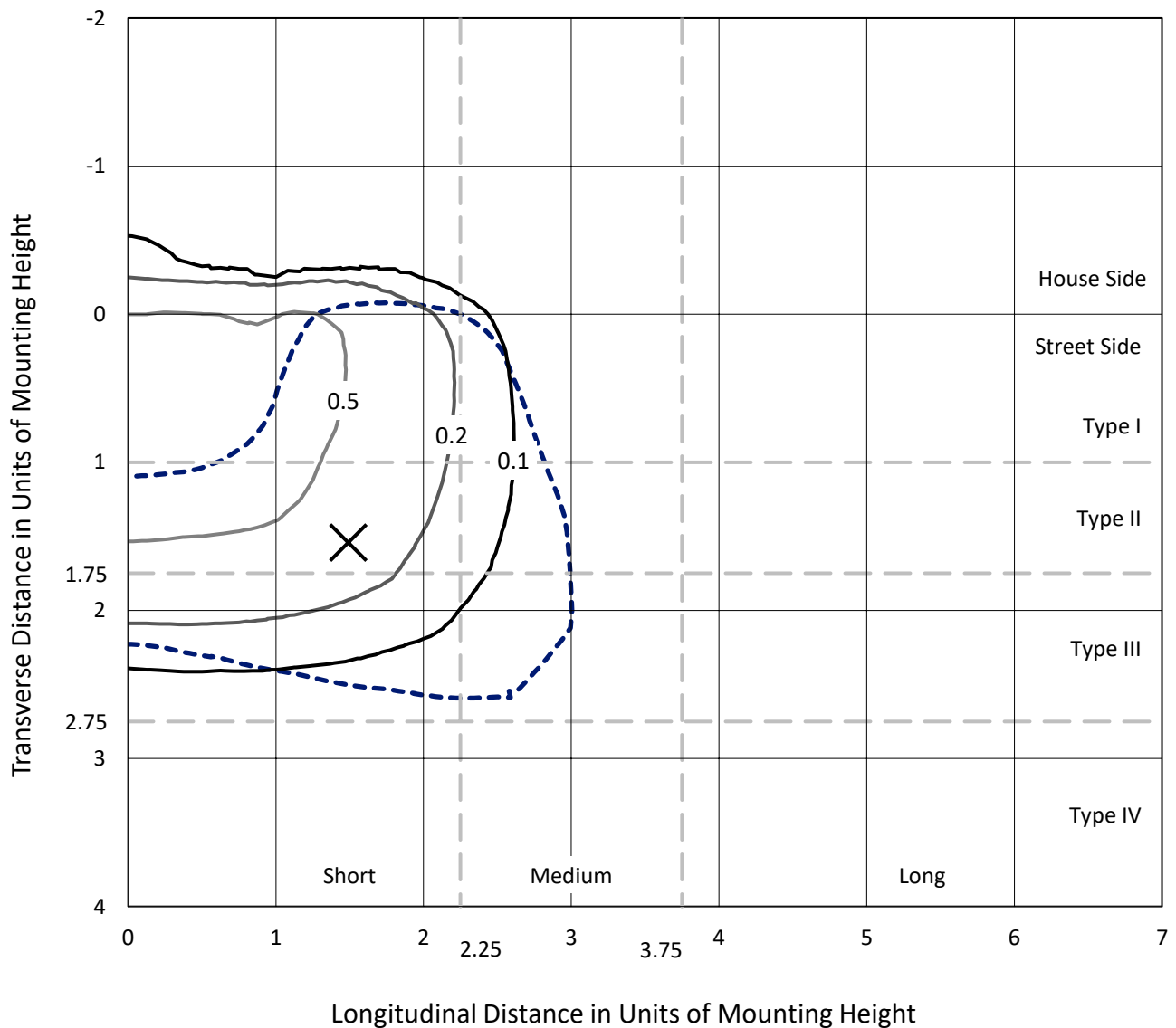
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

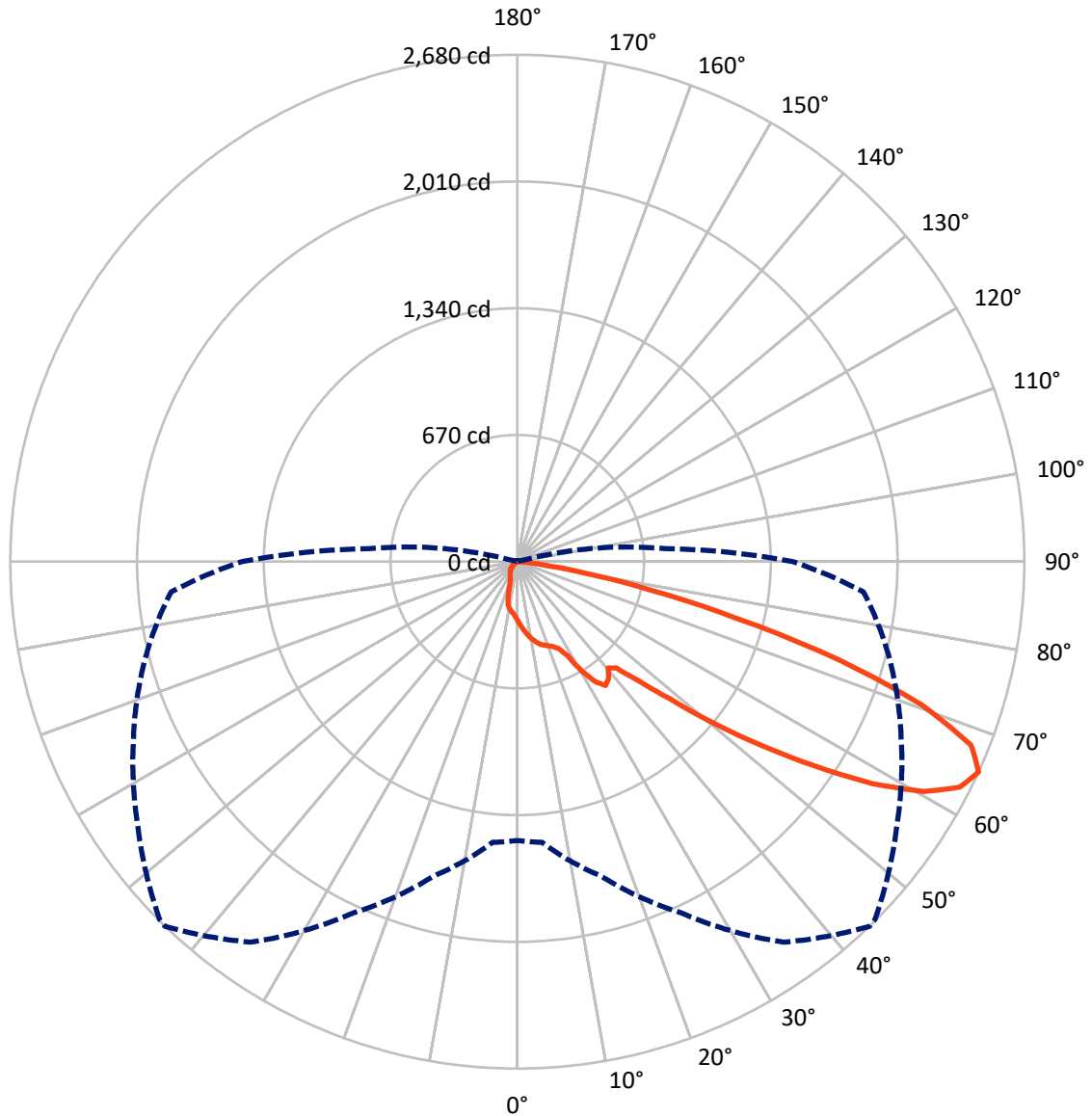
✕ Max cd
 - - - 1/2 Max cd



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	308.4	0.0	308.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3038.6	0.0	3038.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	3347.0	0.0	3347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	0.9
10°-20°	93.2	2.8
20°-30°	158.1	4.7
30°-40°	262.9	7.9
40°-50°	459.0	13.7
50°-60°	896.7	26.8
60°-70°	1040.4	31.1
70°-80°	378.9	11.3
80°-90°	26.7	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°	3347.0	100.0
0°-180°	3347.0	100.0



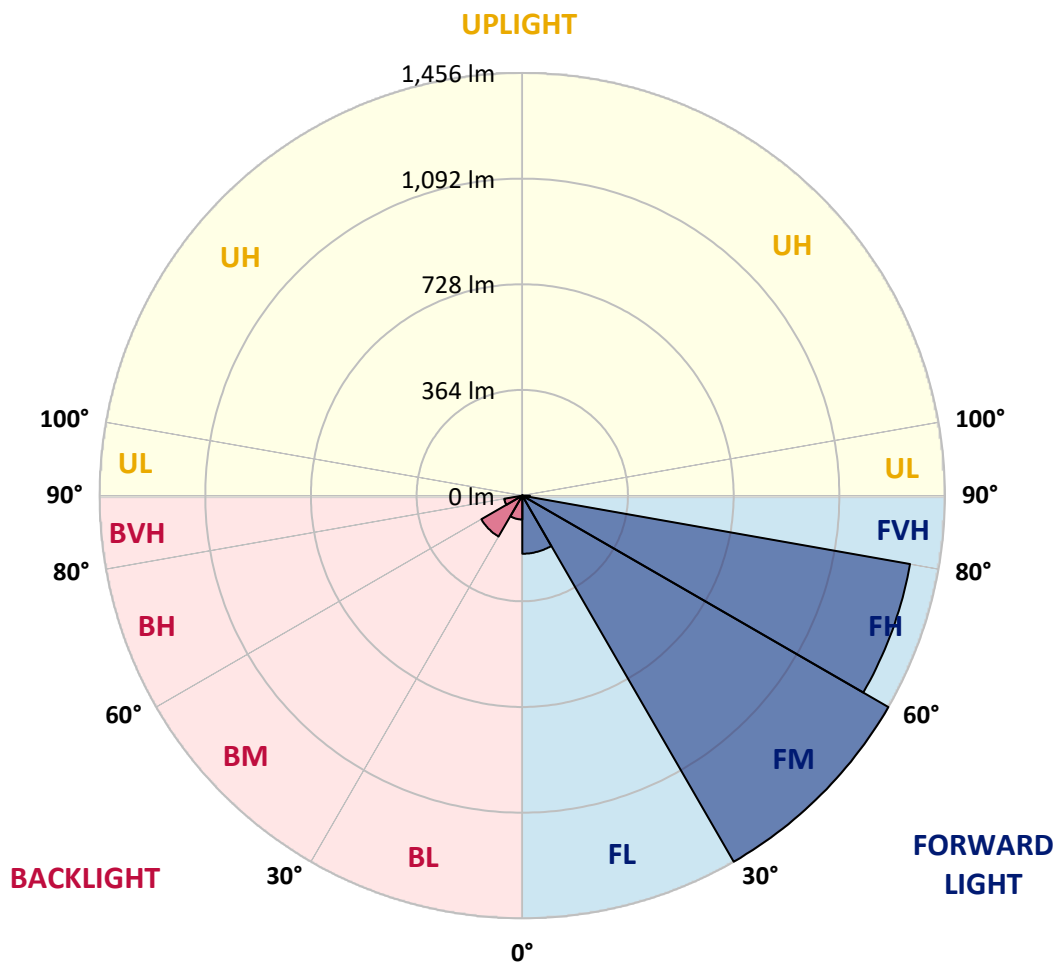
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.2	6.0			
FM (30°-60°)	1455.9	43.5			
FH (60°-80°)	1356.2	40.5			G1/1800
FVH (80°-90°)	26.3	0.8			G1/100
BL (0°-30°)	82.2	2.5	B0/110		
BM (30°-60°)	162.7	4.9	B0/220		
BH (60°-80°)	63.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	350.6	349.1	348.3	344.2	341.2	337.3	337.3	332.5	326.9	320.7	315.1
5°	389.8	387.2	383.9	380.3	373.1	362.9	362.9	352.7	340.9	330.4	318.9
7.5°	427.4	425.1	419.4	412.5	400.8	390.0	389.3	374.4	360.4	344.5	328.1
10°	460.4	458.6	453.7	440.4	428.1	414.1	413.8	397.2	380.8	361.4	341.2
12.5°	483.4	483.6	477.2	464.4	448.6	435.3	434.3	417.9	400.8	379.8	355.0
15°	499.7	499.7	493.1	478.8	464.4	452.7	451.7	437.3	419.7	396.9	370.1
17.5°	504.3	505.9	498.7	485.9	474.4	464.2	463.9	451.9	437.8	415.9	385.4
20°	502.6	504.1	498.5	488.5	480.6	474.7	473.9	469.0	456.0	435.3	401.8
22.5°	498.7	500.3	496.2	490.3	486.4	488.2	487.0	491.0	484.1	459.1	421.2
25°	499.5	501.0	497.9	494.6	497.9	508.9	512.3	529.9	523.8	489.3	442.2
27.5°	523.5	526.6	522.2	523.8	535.5	561.1	567.5	597.9	570.8	527.6	474.9
30°	577.0	574.9	566.7	574.2	615.1	669.3	667.5	662.7	620.2	571.9	513.8
32.5°	625.6	623.8	623.3	655.2	729.4	755.7	754.5	707.4	664.4	622.5	552.2
35°	645.3	638.4	636.8	714.3	838.4	803.6	795.6	725.8	718.2	677.7	591.3
37.5°	704.6	699.7	676.0	724.0	794.9	783.4	777.2	757.5	775.4	726.6	635.5
40°	826.8	813.3	791.8	744.7	733.2	738.1	744.2	798.2	843.2	793.3	694.6
42.5°	978.8	975.7	935.8	848.1	761.9	768.5	776.5	883.1	940.7	893.9	791.0
45°	1161.1	1165.5	1107.9	1004.3	891.3	896.9	908.4	1008.4	1072.6	1050.1	942.7
47.5°	1326.8	1323.5	1304.1	1196.4	1092.1	1079.5	1098.2	1169.3	1255.2	1258.8	1130.9
50°	1493.6	1511.2	1482.3	1440.1	1362.6	1336.3	1329.4	1364.2	1495.1	1478.0	1357.0
52.5°	1733.2	1742.4	1688.2	1677.5	1695.1	1609.7	1602.8	1611.2	1728.4	1669.5	1526.3
55°	1883.9	1878.5	1858.3	1942.2	2012.0	1905.4	1896.7	1862.6	1922.0	1804.8	1689.2
57.5°	1931.4	1939.1	1986.2	2137.8	2303.0	2212.5	2196.7	2100.0	2061.6	1930.9	1839.1
60°	1910.2	1924.3	2025.8	2251.4	2480.5	2467.0	2453.4	2291.0	2161.9	2036.3	1944.2
62.5°	1759.1	1778.8	1941.2	2231.2	2540.6	2625.3	2608.4	2410.2	2228.6	2087.4	1962.6
65°	1474.2	1488.7	1722.0	2047.8	2455.2	2679.5	2673.4	2447.5	2239.1	2040.6	1836.6
67.5°	1050.9	1100.5	1316.6	1725.8	2202.5	2586.9	2597.4	2402.8	2140.6	1838.3	1521.0
70°	660.6	694.4	849.4	1235.5	1765.7	2269.5	2304.1	2197.9	1857.8	1433.0	1018.1
72.5°	315.1	340.2	450.6	782.1	1246.3	1785.7	1813.0	1804.3	1436.6	902.8	525.3
75°	140.4	149.9	215.1	399.2	804.6	1200.2	1271.1	1282.9	897.7	441.7	204.3
77.5°	71.6	71.9	100.8	193.3	401.8	716.1	730.2	771.3	486.7	194.6	71.1
80°	38.1	40.7	53.5	91.3	208.4	352.7	350.9	385.7	215.9	95.4	23.8
82.5°	17.1	18.9	30.2	47.8	101.8	133.8	144.2	157.8	92.6	60.9	10.5
85°	5.1	6.1	14.8	24.0	36.8	38.6	43.2	55.8	52.4	43.2	5.4
87.5°	0.8	0.8	6.1	6.6	5.4	6.9	7.2	7.9	16.9	15.9	2.8
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°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	312.0	310.2	303.8	298.5	293.9	291.0	287.7	285.7	284.7	283.9	284.1
5°	313.3	308.9	298.0	289.3	282.6	275.4	270.6	267.8	266.5	264.4	264.4
7.5°	320.5	313.6	298.2	284.9	273.4	263.7	254.5	251.1	248.8	248.3	247.8
10°	330.7	322.0	301.0	282.6	266.2	252.9	239.9	228.4	219.4	214.1	213.3
12.5°	343.5	330.9	305.4	281.1	260.1	236.6	202.0	178.8	163.2	158.3	159.1
15°	355.2	341.7	309.7	279.8	248.8	196.2	157.0	130.4	122.5	121.7	122.0
17.5°	369.3	353.2	314.8	278.0	217.9	149.9	116.6	109.5	111.0	113.6	113.3
20°	383.9	365.5	321.0	267.3	173.9	112.8	103.1	103.8	106.1	108.4	109.0
22.5°	399.5	379.5	328.1	241.4	132.7	98.2	97.7	98.7	101.0	103.6	104.1
25°	421.0	397.2	333.5	207.7	100.5	90.8	91.8	93.6	95.7	98.5	99.0
27.5°	448.6	421.0	336.3	163.7	87.0	84.1	84.4	87.0	89.5	92.1	92.1
30°	484.4	449.4	330.7	123.8	80.3	77.7	76.7	78.3	81.6	84.1	84.4
32.5°	516.4	476.2	315.9	94.6	75.4	71.9	69.3	69.6	70.8	72.4	72.6
35°	548.3	502.3	290.5	79.5	70.3	66.2	62.4	60.4	59.3	58.6	59.3
37.5°	589.3	534.8	256.8	72.4	66.0	60.9	55.5	51.2	47.6	45.3	45.8
40°	641.9	579.8	216.9	67.8	61.9	55.8	48.6	43.0	36.8	34.8	33.8
42.5°	728.9	648.1	174.9	63.9	57.8	50.4	41.4	33.8	28.1	26.1	26.6
45°	866.2	734.3	134.8	59.8	53.7	44.5	34.8	26.6	22.0	21.0	21.5
47.5°	1048.3	845.8	103.8	55.2	48.6	38.1	27.4	21.0	18.2	17.9	17.6
50°	1219.7	949.6	86.7	50.1	42.5	31.7	22.5	17.6	15.9	15.6	15.6
52.5°	1374.7	1024.0	70.6	44.2	35.8	26.1	18.9	15.6	14.1	13.3	13.3
55°	1512.5	1072.6	57.3	37.1	28.1	20.7	16.4	14.1	12.3	11.3	11.0
57.5°	1616.6	1078.5	43.0	29.7	21.0	16.1	14.1	12.3	10.2	9.0	8.4
60°	1661.1	1027.6	31.7	22.5	15.6	12.8	11.3	10.0	7.7	6.4	6.1
62.5°	1616.4	928.6	23.5	17.1	12.0	9.5	7.9	7.4	5.4	3.8	3.6
65°	1456.0	785.7	18.7	13.0	9.0	6.9	5.1	4.9	3.3	1.8	1.5
67.5°	1166.5	615.3	14.8	9.7	6.4	4.6	3.3	3.1	1.8	0.5	0.5
70°	758.6	393.3	12.0	7.2	4.1	3.1	2.0	1.5	1.0	0.3	0.0
72.5°	375.2	183.9	9.7	5.6	2.8	1.5	0.8	0.5	0.8	0.0	0.0
75°	145.5	65.5	7.2	3.8	1.5	0.8	0.5	0.0	0.3	0.0	0.0
77.5°	48.3	21.7	4.3	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	17.9	8.4	2.3	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	3.3	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	2.0	1.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.5	1.0	0.8	0.5	0.3	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)