

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: P647744

Luminaire Tested: **GALN-SA1A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647744
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-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 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: 2608.9 lumens
Efficiency: N/A
Efficacy: 79.1 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

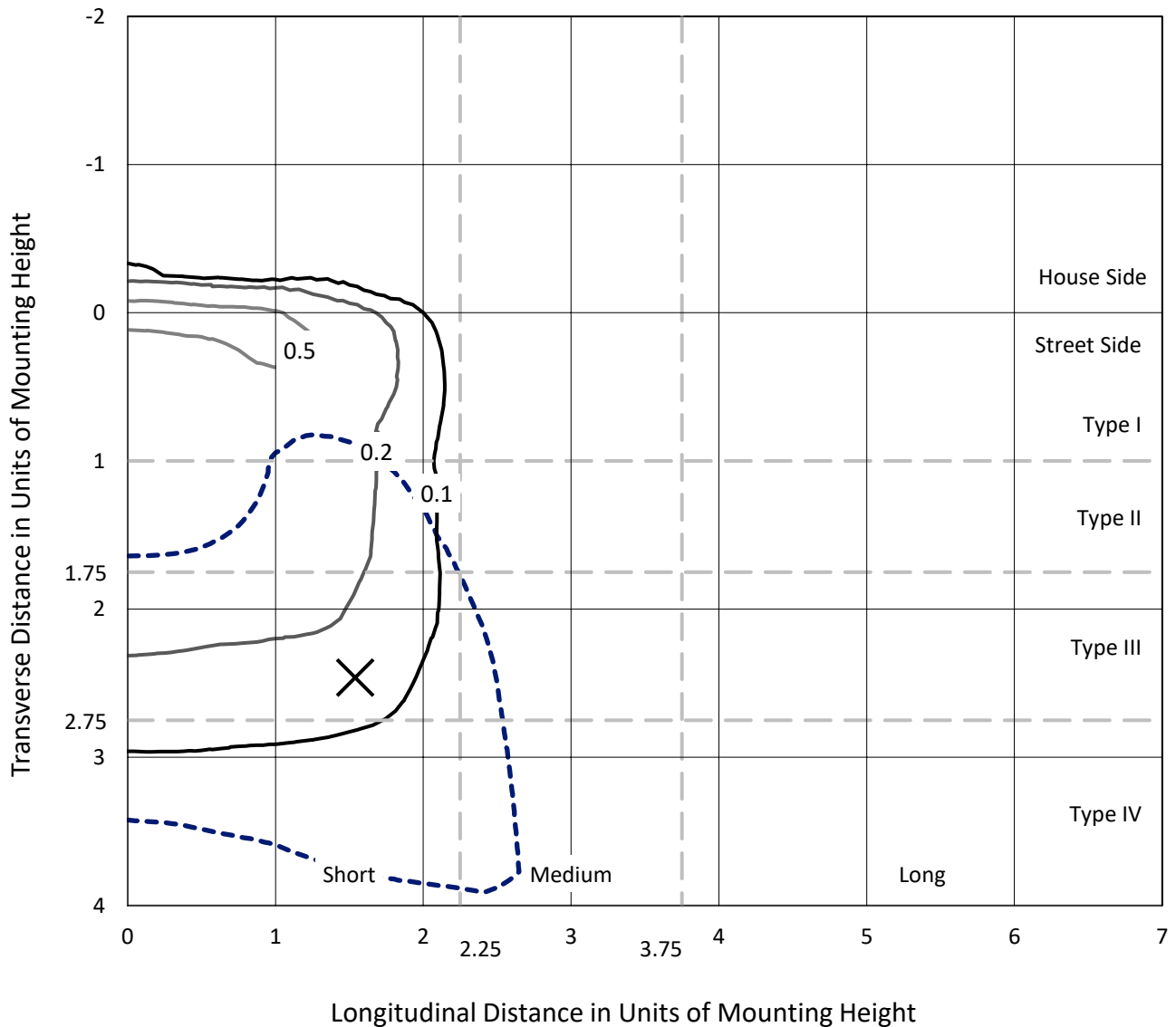
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

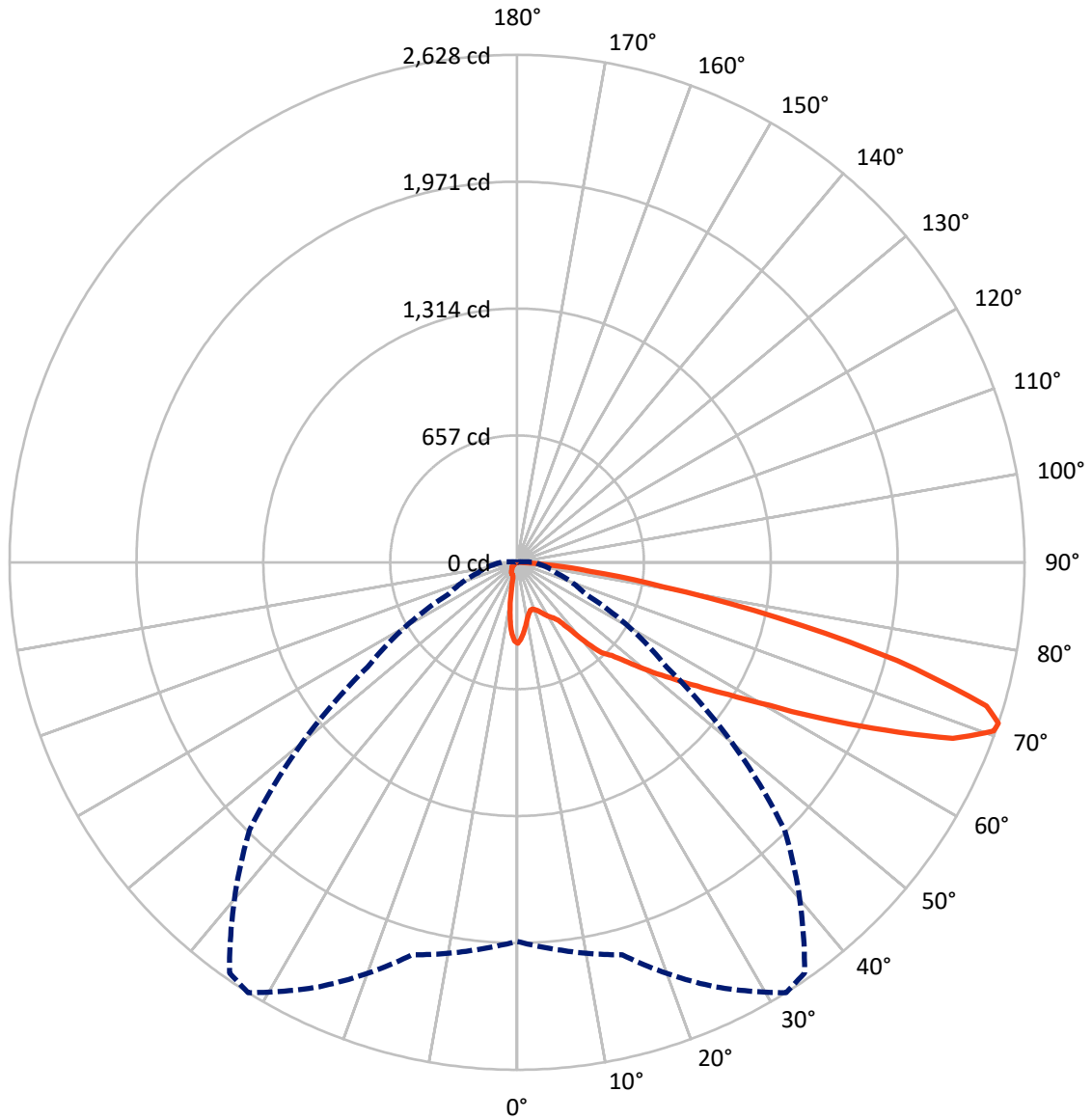
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type 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	218.5	0.0	218.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2390.4	0.0	2390.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	2608.9	0.0	2608.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	1.3
10°-20°	74.0	2.8
20°-30°	115.2	4.4
30°-40°	191.9	7.4
40°-50°	357.0	13.7
50°-60°	573.1	22.0
60°-70°	770.9	29.5
70°-80°	457.4	17.5
80°-90°	35.4	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°	2608.9	100.0
0°-180°	2608.9	100.0

Coefficient of Utilization

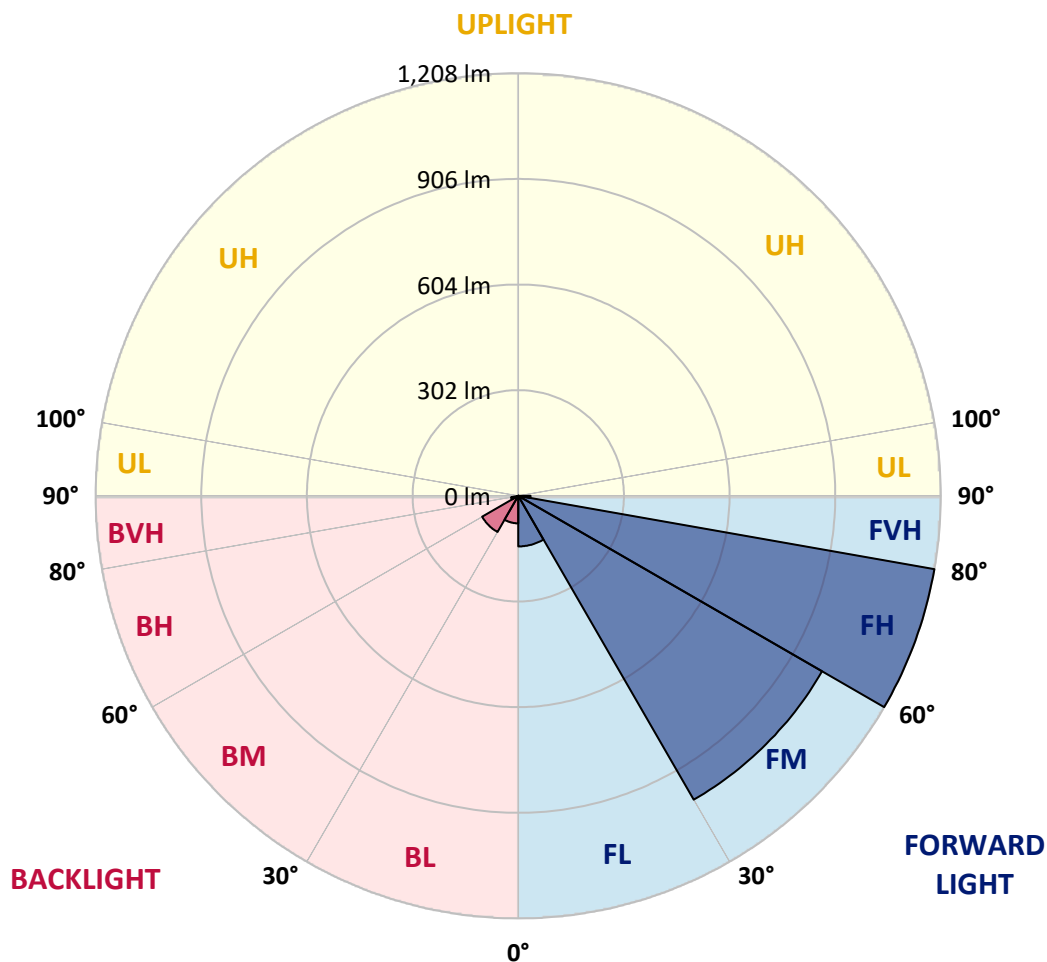


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.6	5.5			
FM (30°-60°)	1002.8	38.4			
FH (60°-80°)	1207.8	46.3			G1/1800
FVH (80°-90°)	35.2	1.3			G1/100
BL (0°-30°)	78.7	3.0	B0/110		
BM (30°-60°)	119.2	4.6	B0/220		
BH (60°-80°)	20.4	0.8	B0/110		G0/110
BVH (80°-90°)	0.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	389.2	393.1	392.5	393.9	397.3	398.7	402.5	406.8	412.6	416.6	419.1
5°	348.4	351.5	351.9	358.8	362.3	366.1	377.3	389.5	403.2	414.0	421.2
7.5°	305.0	306.6	309.8	319.0	327.6	331.4	348.4	369.7	391.1	411.4	424.4
10°	269.2	271.0	276.8	286.6	294.6	299.6	323.2	349.8	379.9	410.0	429.0
12.5°	248.8	249.7	252.0	260.7	271.0	276.4	301.8	332.2	370.9	410.5	436.8
15°	247.3	247.0	244.3	247.9	257.1	262.8	287.6	320.2	362.9	412.6	446.0
17.5°	254.7	253.8	247.5	247.5	255.2	259.7	281.6	313.8	358.8	417.2	459.0
20°	266.1	264.6	254.3	253.5	261.0	265.8	285.2	314.2	359.7	425.8	476.5
22.5°	280.5	278.7	263.3	263.7	271.8	276.6	295.6	321.4	364.7	436.4	495.1
25°	299.4	297.4	279.1	278.4	286.8	291.0	311.0	334.3	371.7	449.6	519.5
27.5°	324.4	320.2	298.4	297.2	306.2	311.6	329.6	351.5	384.1	467.8	552.3
30°	345.1	340.4	319.6	316.4	326.0	330.3	348.9	374.7	408.6	499.6	597.8
32.5°	372.1	365.3	340.8	332.5	342.6	348.0	376.7	418.0	444.8	533.3	651.8
35°	433.0	428.8	398.9	369.5	368.9	375.7	417.7	461.6	482.0	585.8	725.6
37.5°	520.1	517.1	485.5	446.0	434.6	431.4	467.6	509.7	541.5	657.9	811.3
40°	621.2	614.2	585.2	551.7	536.9	527.5	526.5	581.1	619.2	755.8	900.6
42.5°	693.7	680.9	645.7	643.2	640.0	630.2	601.8	685.8	719.6	861.1	996.1
45°	769.8	750.4	698.0	688.9	687.7	687.1	715.6	809.5	828.9	975.3	1094.2
47.5°	828.9	813.5	770.4	766.4	771.4	785.0	865.9	940.9	936.9	1077.0	1176.5
50°	907.6	896.0	848.1	855.7	881.6	903.8	1035.6	1084.1	1025.6	1157.1	1236.4
52.5°	1000.5	979.1	934.7	955.3	995.0	1032.0	1215.6	1209.4	1087.8	1217.4	1281.1
55°	1081.0	1065.8	1050.6	1072.0	1131.3	1177.6	1378.2	1303.3	1133.1	1265.9	1300.7
57.5°	1217.3	1213.6	1198.0	1219.8	1291.7	1339.8	1523.9	1376.2	1162.1	1291.1	1277.7
60°	1418.7	1412.9	1383.9	1411.7	1505.4	1580.9	1658.0	1441.7	1168.8	1281.3	1211.5
62.5°	1661.1	1641.2	1616.3	1657.5	1786.0	1819.2	1784.4	1480.6	1144.1	1203.2	1051.6
65°	1887.3	1866.9	1867.5	1954.0	2094.0	2116.6	1931.8	1474.8	1072.0	1007.6	775.6
67.5°	2060.5	2057.2	2081.6	2250.4	2433.5	2417.8	2063.6	1387.9	858.3	653.1	412.2
70°	2069.4	2076.0	2146.0	2431.1	2616.9	2592.0	2052.3	1128.1	535.1	300.4	162.4
71°	1962.8	2007.3	2104.2	2425.4	2627.7	2595.5	1957.8	944.8	392.5	209.5	117.1
72.5°	1672.6	1696.1	1905.5	2282.7	2542.2	2473.3	1718.1	662.3	251.3	128.2	67.3
75°	921.2	978.9	1276.1	1790.8	2033.3	1972.8	1119.7	314.6	125.4	70.1	27.9
77.5°	438.6	427.4	622.6	1065.0	1378.6	1375.4	564.2	139.8	73.1	47.4	14.0
80°	125.4	141.0	238.3	506.3	765.5	773.8	216.7	67.5	50.7	37.0	7.2
82.5°	37.8	38.7	87.5	223.9	380.7	358.8	81.3	34.5	36.5	29.4	4.2
85°	6.6	8.2	25.8	78.9	145.2	110.2	20.4	16.4	24.0	19.4	2.4
87.5°	0.4	0.6	8.6	9.0	12.8	7.4	3.6	2.4	5.2	5.2	1.4
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°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	420.9	422.2	421.3	419.5	416.6	413.0	408.2	404.1	400.7	398.9	401.1
5°	423.6	425.2	421.2	412.2	398.5	383.7	366.9	353.8	343.7	340.4	339.3
7.5°	427.6	428.5	417.7	397.8	368.9	333.9	303.2	277.3	257.4	251.3	242.5
10°	432.8	432.2	411.8	374.5	323.8	271.2	223.7	188.5	161.8	152.2	151.4
12.5°	440.8	437.6	404.1	342.9	270.1	201.2	142.6	111.6	94.7	89.1	87.9
15°	450.8	443.2	392.1	305.8	206.9	130.0	87.9	78.5	76.3	75.9	75.5
17.5°	462.6	450.6	376.3	260.3	145.4	84.3	73.5	73.3	73.5	73.1	72.9
20°	478.6	458.4	357.4	206.5	96.2	71.1	70.1	70.1	70.3	70.1	70.1
22.5°	495.6	467.6	334.3	157.6	72.5	67.5	67.3	67.7	68.1	67.9	67.9
25°	516.7	479.7	303.6	108.0	64.9	64.5	64.7	65.5	66.3	66.5	66.3
27.5°	547.2	494.5	270.8	74.3	59.5	59.9	61.9	63.9	65.1	65.3	65.3
30°	581.4	510.9	227.9	60.3	55.0	55.0	57.5	61.3	63.9	64.3	64.5
32.5°	625.5	529.9	180.4	54.3	50.9	50.5	52.7	57.3	62.1	63.5	63.5
35°	679.9	552.3	134.2	50.5	47.8	46.9	48.1	51.8	58.1	62.1	62.5
37.5°	743.8	573.5	98.1	47.1	45.0	43.7	44.5	47.4	52.5	58.5	60.1
40°	802.9	592.4	73.3	44.2	42.3	41.3	41.9	43.2	47.4	53.1	54.1
42.5°	867.3	607.0	58.3	41.3	39.5	39.1	39.1	39.6	42.4	45.6	45.9
45°	931.6	612.2	48.9	37.7	36.5	36.9	36.6	36.3	37.4	37.0	37.0
47.5°	977.5	606.0	40.5	34.2	34.2	34.8	33.8	32.4	31.9	29.4	29.7
50°	1009.0	583.4	33.3	30.2	31.9	32.7	30.6	28.4	26.2	23.6	23.0
52.5°	1022.0	543.1	27.2	25.1	28.3	29.2	26.9	24.2	20.8	18.6	18.0
55°	1013.6	493.4	22.6	20.4	23.8	25.1	22.6	19.7	15.8	13.4	13.0
57.5°	976.5	434.2	19.3	16.2	19.0	19.8	18.2	15.0	11.2	8.8	8.8
60°	912.4	372.9	15.7	12.8	14.3	15.4	13.8	10.8	7.6	5.4	5.0
62.5°	782.5	302.8	12.6	10.0	10.0	11.0	9.6	7.8	4.8	2.8	2.6
65°	564.9	207.7	10.0	7.4	7.2	7.2	6.0	5.2	2.8	1.2	0.8
67.5°	307.0	117.1	8.0	5.6	5.0	4.8	3.8	3.0	1.2	0.2	0.0
70°	120.7	45.0	6.2	3.8	3.2	3.0	2.0	1.4	0.8	0.0	0.0
71°	81.9	31.0	5.4	3.2	2.6	2.2	1.6	1.2	0.6	0.0	0.0
72.5°	46.9	19.3	4.2	2.4	2.0	1.6	1.2	0.8	0.6	0.0	0.0
75°	20.4	9.8	2.6	1.8	1.4	1.0	0.8	0.6	0.2	0.0	0.0
77.5°	10.4	5.4	1.8	1.4	0.8	0.6	0.4	0.2	0.0	0.0	0.0
80°	5.8	2.8	1.2	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
82.5°	3.2	1.6	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.4	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)