

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: P648239

Luminaire Tested: **GALN-SA1B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648239
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-SA1B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA 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: 3246.3 lumens
Efficiency: N/A
Efficacy: 73.8 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): 44
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

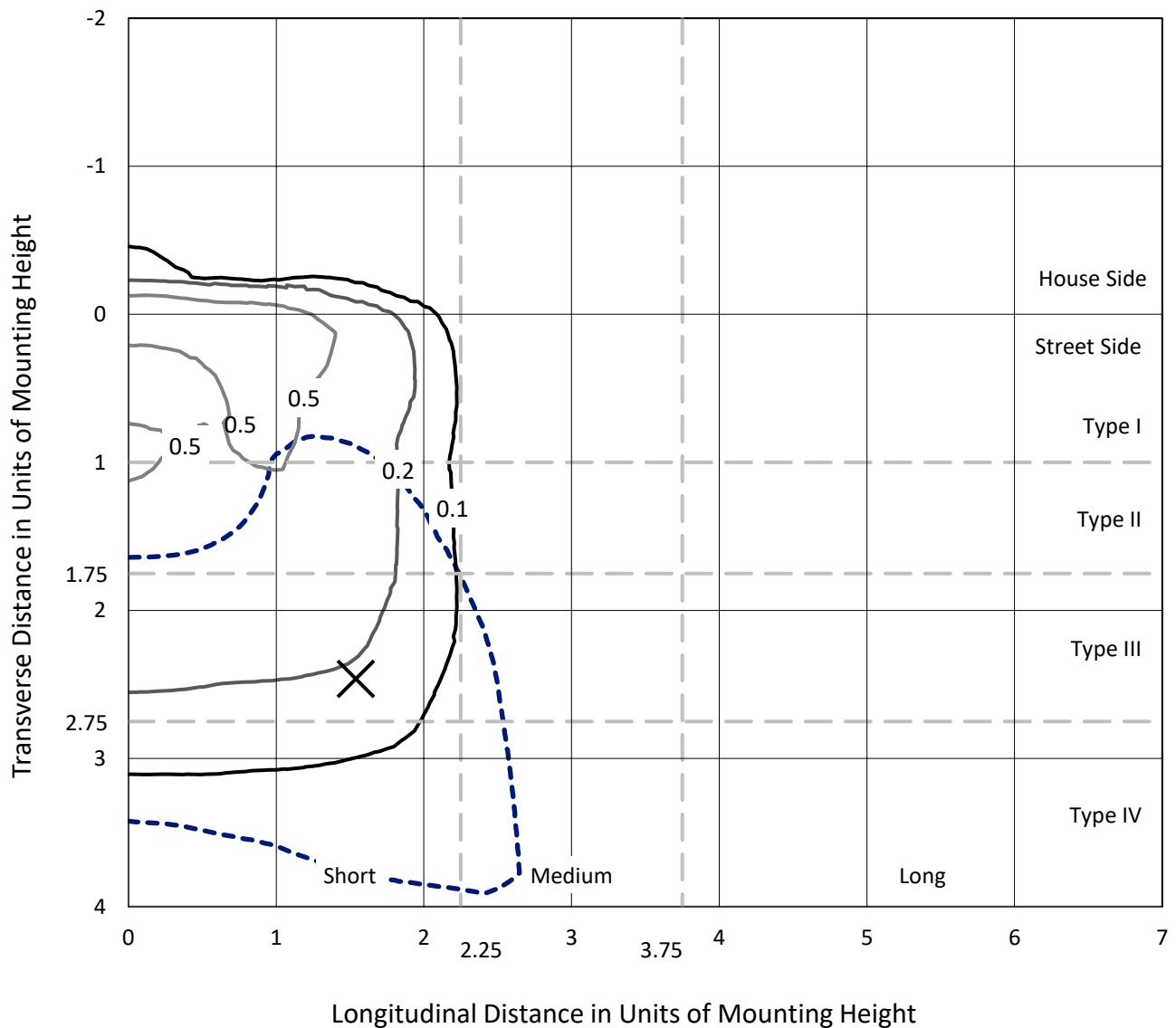




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Iso-Footcandle Lines of Horizontal Illumination

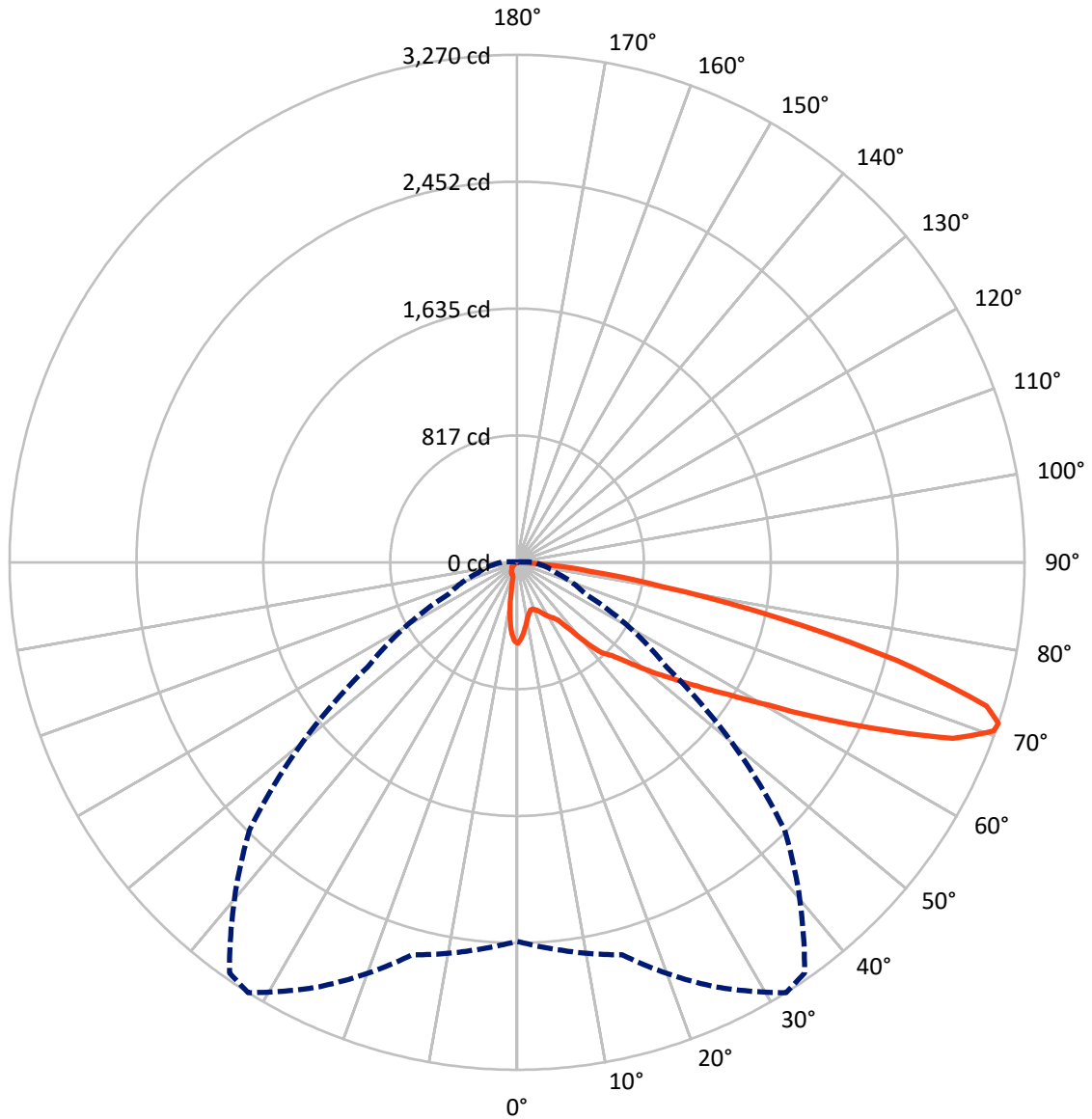
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	271.9	0.0	271.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2974.4	0.0	2974.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	3246.3	0.0	3246.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.3
10°-20°	92.1	2.8
20°-30°	143.3	4.4
30°-40°	238.8	7.4
40°-50°	444.2	13.7
50°-60°	713.1	22.0
60°-70°	959.2	29.5
70°-80°	569.1	17.5
80°-90°	44.0	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°	3246.3	100.0
0°-180°	3246.3	100.0

Coefficient of Utilization

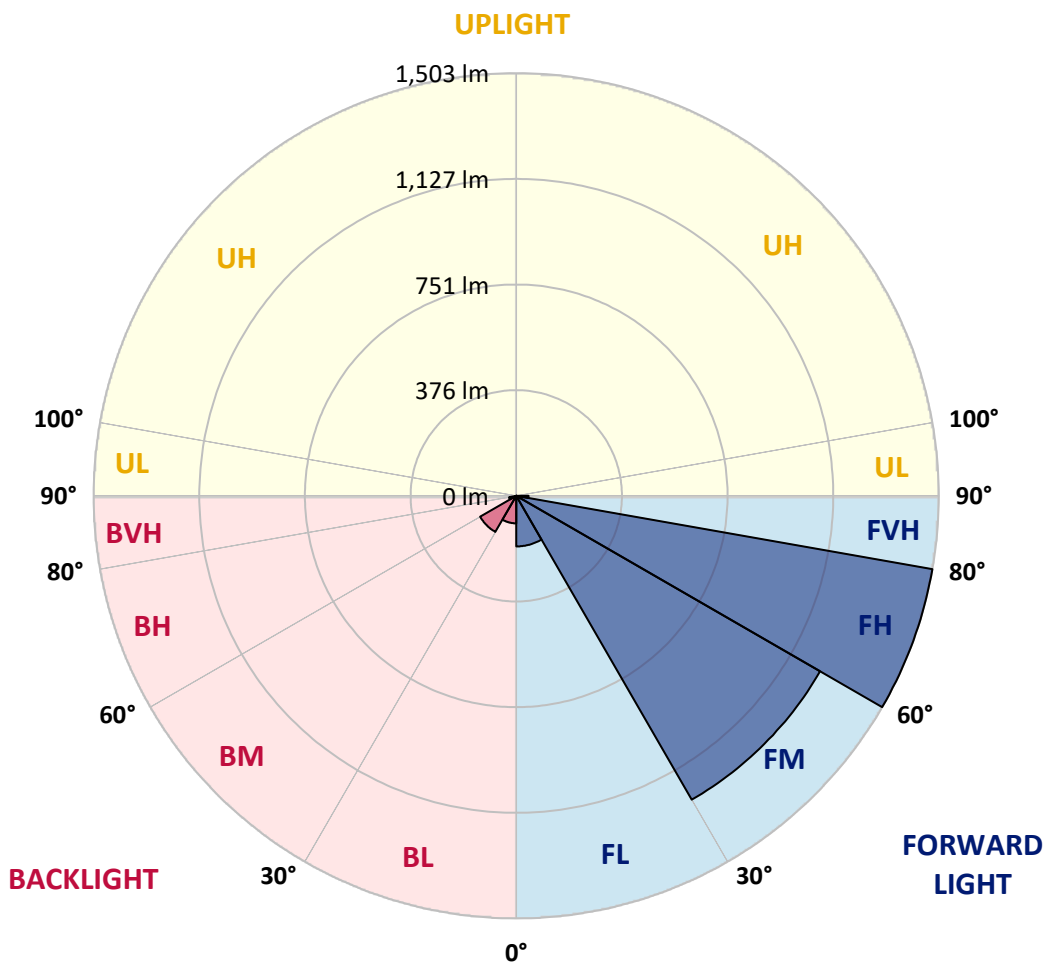


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.9	5.5			
FM (30°-60°)	1247.8	38.4			
FH (60°-80°)	1502.9	46.3			G1/1800
FVH (80°-90°)	43.8	1.3			G1/100
BL (0°-30°)	98.0	3.0	B0/110		
BM (30°-60°)	148.3	4.6	B0/220		
BH (60°-80°)	25.4	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°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	484.2	489.1	488.4	490.2	494.4	496.1	500.9	506.1	513.3	518.3	521.6
5°	433.6	437.3	437.9	446.5	450.8	455.5	469.5	484.7	501.6	515.1	524.1
7.5°	379.5	381.5	385.5	397.0	407.7	412.4	433.6	460.0	486.6	511.8	528.1
10°	334.9	337.2	344.4	356.6	366.6	372.8	402.2	435.3	472.7	510.1	533.8
12.5°	309.5	310.8	313.5	324.5	337.2	343.9	375.5	413.4	461.5	510.8	543.5
15°	307.7	307.2	304.0	308.5	319.9	326.9	357.8	398.5	451.6	513.3	555.0
17.5°	317.0	315.7	308.0	308.0	317.5	323.2	350.4	390.5	446.5	519.1	571.1
20°	331.2	329.2	316.5	315.5	324.7	330.7	354.9	391.0	447.6	529.8	592.8
22.5°	349.1	346.9	327.7	328.2	338.2	344.1	367.8	400.0	453.7	543.0	616.0
25°	372.6	370.0	347.3	346.4	356.8	362.1	387.0	415.9	462.5	559.5	646.4
27.5°	403.7	398.5	371.3	369.8	381.0	387.7	410.1	437.3	477.9	582.1	687.2
30°	429.4	423.6	397.7	393.7	405.7	410.9	434.1	466.3	508.3	621.7	743.8
32.5°	463.0	454.5	424.2	413.7	426.3	433.1	468.7	520.1	553.4	663.6	811.1
35°	538.8	533.5	496.4	459.8	459.0	467.5	519.8	574.4	599.8	728.9	902.8
37.5°	647.1	643.4	604.0	555.0	540.7	536.7	581.8	634.2	673.8	818.6	1009.4
40°	773.0	764.3	728.1	686.5	668.1	656.4	655.1	723.2	770.5	940.5	1120.6
42.5°	863.2	847.3	803.4	800.4	796.4	784.2	748.9	853.2	895.4	1071.5	1239.5
45°	957.9	933.7	868.4	857.2	855.7	855.0	890.3	1007.3	1031.4	1213.6	1361.6
47.5°	1031.4	1012.2	958.6	953.7	959.9	976.9	1077.5	1170.7	1165.7	1340.2	1464.0
50°	1129.3	1114.9	1055.3	1064.8	1097.0	1124.6	1288.6	1348.9	1276.1	1439.9	1538.5
52.5°	1245.0	1218.3	1163.0	1188.7	1238.0	1284.1	1512.6	1504.8	1353.7	1514.9	1594.1
55°	1345.1	1326.2	1307.3	1333.9	1407.7	1465.2	1714.9	1621.7	1409.9	1575.2	1618.5
57.5°	1514.6	1510.1	1490.7	1517.8	1607.3	1667.1	1896.1	1712.4	1446.0	1606.6	1589.9
60°	1765.3	1758.1	1721.9	1756.6	1873.2	1967.1	2063.0	1793.9	1454.3	1594.3	1507.4
62.5°	2066.8	2042.1	2011.2	2062.3	2222.3	2263.7	2220.3	1842.2	1423.7	1497.2	1308.5
65°	2348.4	2323.0	2323.7	2431.4	2605.6	2633.7	2403.7	1835.0	1333.9	1253.7	965.1
67.5°	2563.9	2559.7	2590.1	2800.2	3027.9	3008.5	2567.7	1726.9	1068.0	812.6	512.9
70°	2574.9	2583.1	2670.3	3025.0	3256.2	3225.3	2553.8	1403.7	665.9	373.8	202.1
71°	2442.3	2497.7	2618.3	3018.0	3269.7	3229.6	2436.1	1175.7	488.4	260.7	145.8
72.5°	2081.3	2110.4	2371.1	2840.3	3163.2	3077.5	2137.8	824.1	312.7	159.5	83.7
75°	1146.3	1218.0	1587.8	2228.3	2530.0	2454.8	1393.3	391.5	156.0	87.2	34.6
77.5°	545.8	531.8	774.8	1325.2	1715.5	1711.5	702.0	173.9	91.0	59.0	17.5
80°	156.0	175.5	296.5	629.9	952.4	962.9	269.7	84.0	63.0	46.1	9.0
82.5°	47.1	48.1	108.9	278.6	473.7	446.5	101.2	42.8	45.3	36.6	5.2
85°	8.2	10.2	32.2	98.2	180.6	137.0	25.4	20.4	29.9	24.2	3.0
87.5°	0.5	0.8	10.7	11.2	16.0	9.2	4.5	3.0	6.5	6.5	1.7
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°	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0	522.0
2.5°	523.8	525.3	524.3	522.0	518.3	513.8	507.9	502.8	498.6	496.4	499.2
5°	527.0	529.1	524.1	512.9	495.9	477.5	456.5	440.4	427.6	423.6	422.1
7.5°	532.0	533.3	519.8	494.9	459.0	415.4	377.2	345.1	320.2	312.7	301.8
10°	538.5	537.8	512.3	466.0	402.9	337.4	278.4	234.5	201.3	189.4	188.4
12.5°	548.5	544.5	502.8	426.7	336.1	250.4	177.4	138.8	117.8	110.9	109.4
15°	560.9	551.5	487.9	380.5	257.5	161.7	109.4	97.7	95.0	94.4	94.0
17.5°	575.7	560.7	468.2	323.9	181.0	104.9	91.5	91.2	91.5	91.0	90.7
20°	595.5	570.4	444.8	256.9	119.6	88.5	87.2	87.2	87.5	87.2	87.2
22.5°	616.8	581.8	415.9	196.1	90.2	84.0	83.7	84.3	84.7	84.5	84.5
25°	642.9	596.8	377.8	134.3	80.7	80.3	80.5	81.5	82.4	82.8	82.4
27.5°	680.8	615.3	336.9	92.5	74.0	74.5	77.0	79.5	81.0	81.3	81.3
30°	723.4	635.7	283.6	75.0	68.5	68.5	71.5	76.3	79.5	80.0	80.3
32.5°	778.2	659.4	224.5	67.5	63.3	62.8	65.5	71.3	77.3	79.0	79.0
35°	846.0	687.2	166.9	62.8	59.6	58.3	59.8	64.5	72.3	77.3	77.8
37.5°	925.5	713.7	122.1	58.6	56.1	54.3	55.4	59.0	65.3	72.7	74.8
40°	999.0	737.1	91.2	55.0	52.6	51.4	52.1	53.8	59.0	66.0	67.3
42.5°	1079.3	755.3	72.5	51.4	49.1	48.6	48.6	49.3	52.9	56.8	57.1
45°	1159.2	761.8	60.8	46.8	45.3	45.9	45.6	45.1	46.6	46.1	46.1
47.5°	1216.3	754.0	50.3	42.6	42.6	43.4	42.1	40.4	39.6	36.6	36.9
50°	1255.5	725.9	41.3	37.7	39.6	40.6	38.1	35.4	32.7	29.4	28.7
52.5°	1271.6	675.8	33.9	31.2	35.2	36.4	33.4	30.1	25.9	23.2	22.4
55°	1261.2	614.0	28.2	25.4	29.7	31.2	28.2	24.4	19.7	16.7	16.2
57.5°	1215.1	540.3	24.0	20.2	23.6	24.7	22.7	18.7	13.9	11.0	11.0
60°	1135.4	464.0	19.4	16.0	17.7	19.2	17.2	13.5	9.5	6.7	6.3
62.5°	973.6	376.8	15.7	12.4	12.4	13.7	12.0	9.7	6.0	3.5	3.2
65°	703.0	258.4	12.4	9.2	9.0	9.0	7.4	6.5	3.5	1.5	1.0
67.5°	382.0	145.8	9.9	7.0	6.3	6.0	4.7	3.8	1.5	0.2	0.0
70°	150.3	56.1	7.8	4.7	4.0	3.8	2.5	1.7	1.0	0.0	0.0
71°	101.9	38.6	6.7	4.0	3.2	2.7	2.0	1.5	0.8	0.0	0.0
72.5°	58.3	24.0	5.2	3.0	2.5	2.0	1.5	1.0	0.8	0.0	0.0
75°	25.4	12.2	3.2	2.3	1.7	1.3	1.0	0.8	0.2	0.0	0.0
77.5°	12.9	6.7	2.3	1.7	1.0	0.8	0.5	0.2	0.0	0.0	0.0
80°	7.2	3.5	1.5	1.0	0.8	0.5	0.2	0.2	0.0	0.0	0.0
82.5°	4.0	2.0	0.8	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)