

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: P458516

Luminaire Tested: **GALN-SA1A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

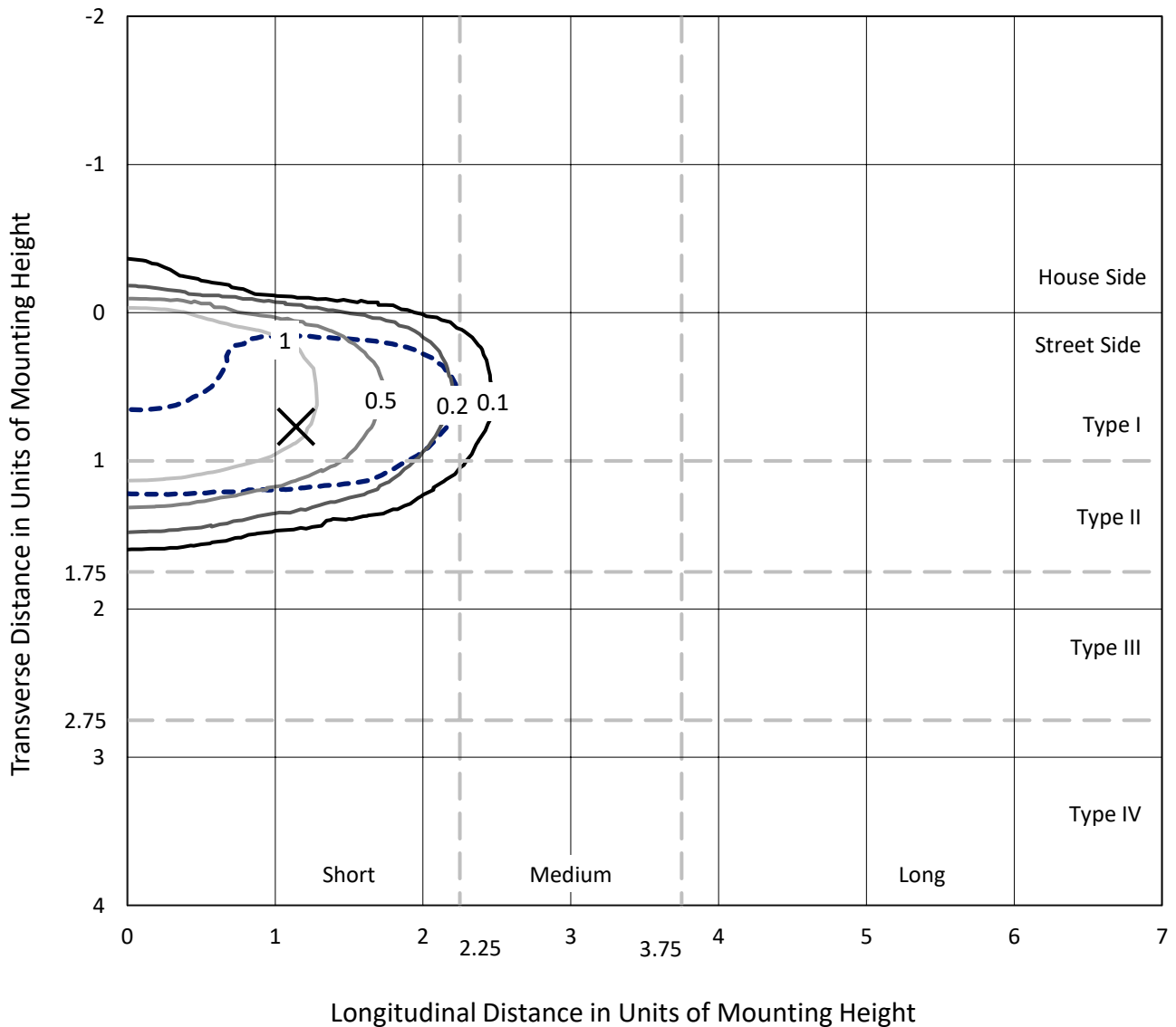
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

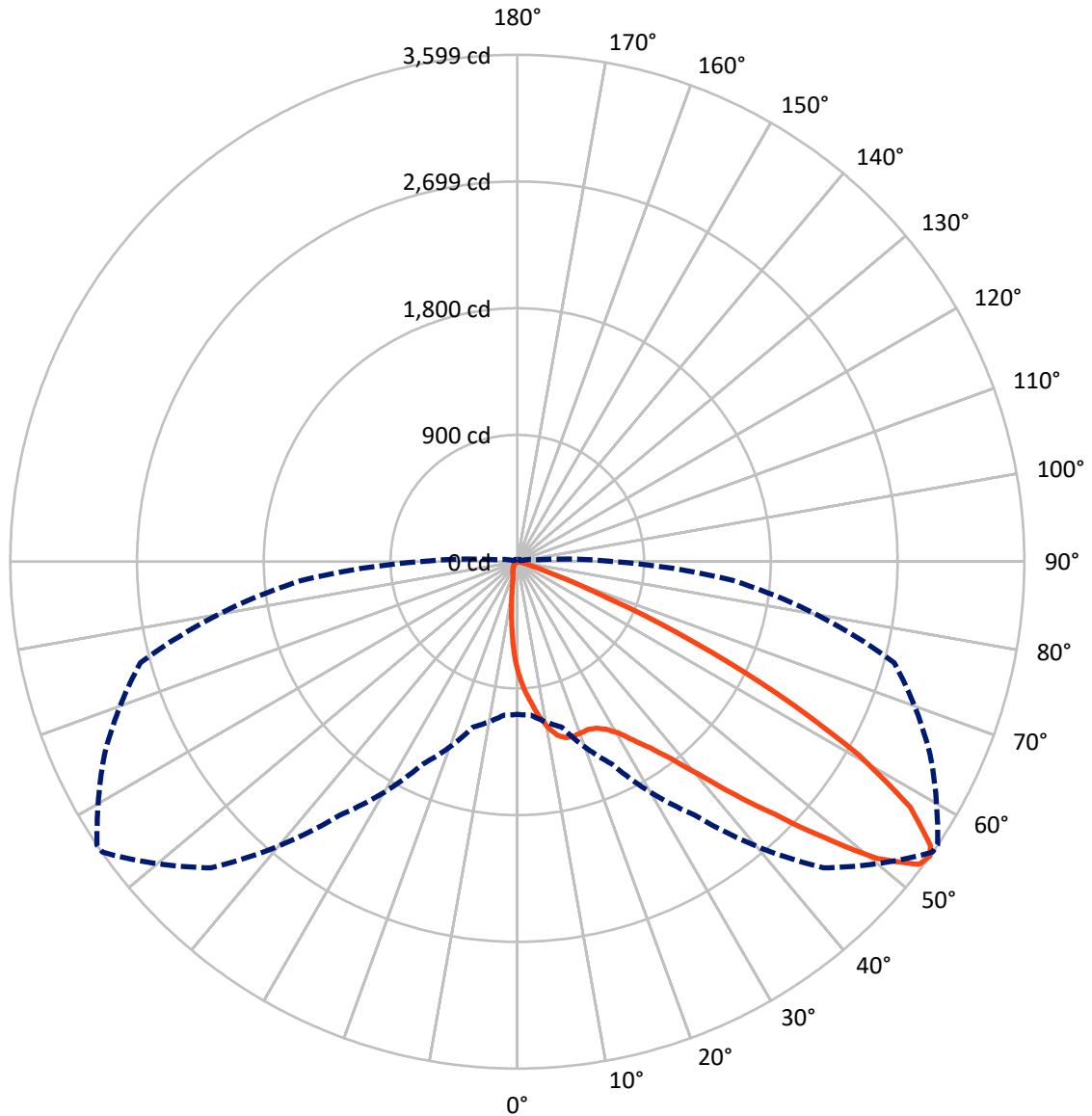
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.0	0.0	167.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	3365.0	0.0	3365.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	3532.0	0.0	3532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	2.0
10°-20°	187.5	5.3
20°-30°	324.7	9.2
30°-40°	560.4	15.9
40°-50°	953.8	27.0
50°-60°	943.9	26.7
60°-70°	430.8	12.2
70°-80°	55.3	1.6
80°-90°	6.2	0.2
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°	3532.0	100.0
0°-180°	3532.0	100.0

Coefficient of Utilization



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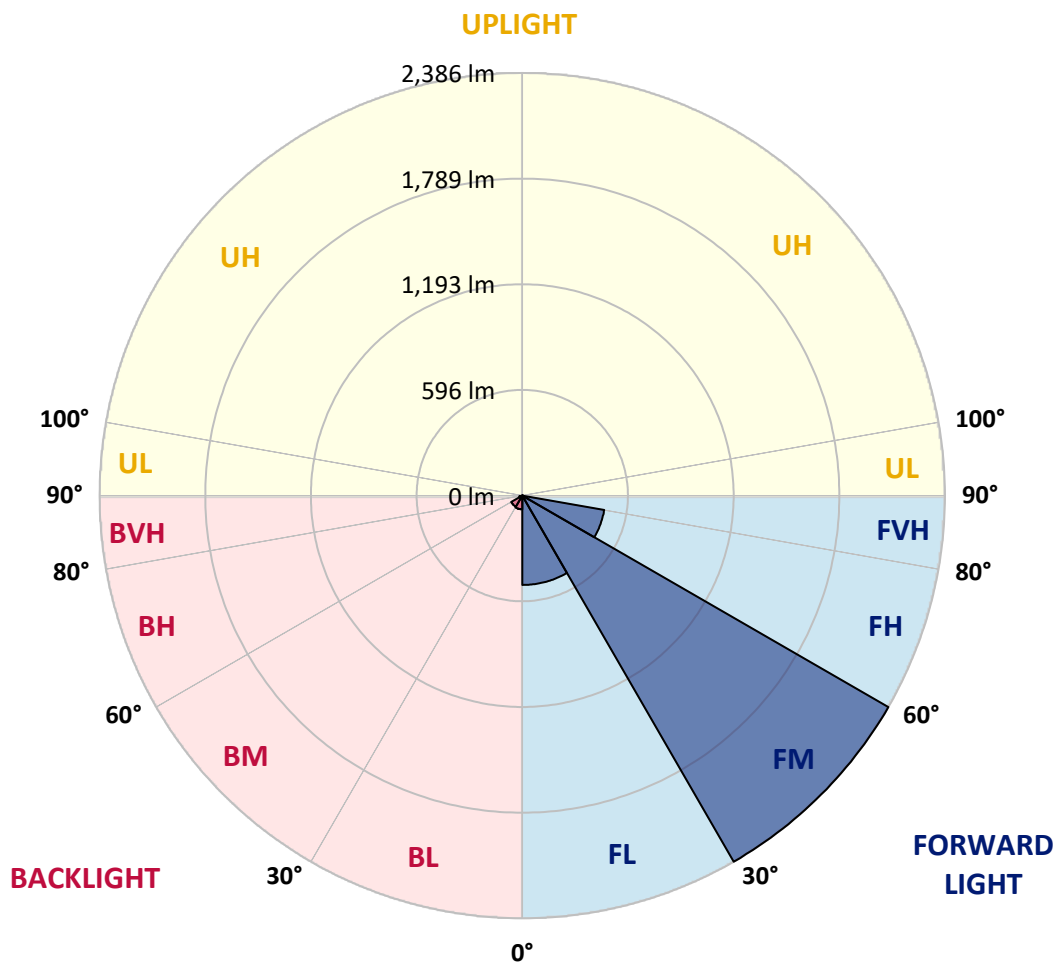
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.2	14.3			
FM (30°-60°)	2385.8	67.5			
FH (60°-80°)	469.4	13.3			G0/660
FVH (80°-90°)	5.6	0.2			G0/10
BL (0°-30°)	77.2	2.2	B0/110		
BM (30°-60°)	72.4	2.0	B0/220		
BH (60°-80°)	16.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.7	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7
2.5°	997.3	990.4	980.8	973.4	956.0	931.0	904.6	904.6	879.1	843.6	807.3
5°	1150.3	1145.7	1136.4	1117.4	1097.8	1062.8	1009.7	1000.4	954.9	890.5	822.8
7.5°	1212.5	1214.6	1215.1	1210.1	1200.8	1166.2	1113.6	1107.1	1034.4	948.2	843.1
10°	1152.9	1163.4	1173.6	1194.3	1223.7	1232.0	1202.2	1195.5	1124.0	1006.6	865.0
12.5°	1064.2	1069.9	1075.7	1108.3	1167.2	1234.6	1265.8	1265.6	1205.1	1064.7	892.9
15°	1023.0	1028.0	1028.5	1043.0	1094.0	1192.2	1293.0	1296.6	1284.2	1136.4	922.9
17.5°	1031.6	1035.6	1032.3	1035.9	1062.6	1145.5	1289.9	1301.8	1348.3	1205.3	950.1
20°	1087.6	1095.4	1082.6	1072.6	1080.7	1133.1	1279.4	1296.1	1393.6	1272.5	974.9
22.5°	1188.1	1192.4	1176.2	1148.8	1134.5	1159.1	1276.6	1293.0	1432.2	1327.5	989.2
25°	1299.9	1298.5	1280.6	1249.9	1219.8	1211.5	1295.4	1310.2	1464.1	1377.1	993.5
27.5°	1411.7	1416.0	1385.9	1347.8	1311.8	1290.1	1337.6	1348.5	1500.1	1433.6	998.7
30°	1541.5	1534.6	1505.1	1461.5	1420.2	1390.0	1405.5	1408.6	1549.6	1508.4	1012.5
32.5°	1710.5	1691.4	1658.3	1582.0	1552.5	1501.3	1505.1	1508.9	1609.9	1582.5	1029.2
35°	1939.7	1938.8	1874.0	1771.3	1699.3	1635.7	1619.0	1622.1	1701.2	1692.6	1066.1
37.5°	2215.7	2219.5	2145.6	2042.2	1909.7	1808.7	1774.4	1774.8	1839.9	1844.6	1122.4
40°	2440.4	2450.4	2406.3	2336.5	2205.7	2047.7	1990.0	1984.8	2034.8	2028.9	1202.7
42.5°	2537.1	2546.4	2562.9	2587.2	2515.2	2384.9	2248.8	2255.9	2271.2	2229.5	1292.8
45°	2489.7	2504.5	2569.1	2719.2	2786.9	2743.0	2580.7	2555.7	2491.1	2447.5	1383.3
47.5°	2292.2	2328.2	2436.1	2686.1	2922.9	3071.2	2955.3	2922.2	2711.3	2606.7	1441.0
50°	1967.4	1969.5	2119.9	2439.4	2852.4	3278.2	3337.8	3313.0	2916.5	2696.1	1470.0
52.5°	1426.2	1473.1	1610.9	1981.0	2546.9	3246.8	3581.6	3571.3	3128.1	2741.8	1512.0
54°	1084.2	1093.3	1215.8	1583.0	2195.9	3074.0	3596.6	3599.0	3233.2	2769.5	1536.8
55°	888.8	867.2	995.8	1348.5	1956.4	2921.3	3547.5	3559.0	3280.4	2783.8	1555.1
57.5°	421.3	421.5	520.0	711.3	1225.3	2268.3	3247.5	3288.0	3285.6	2808.3	1611.6
60°	213.3	214.7	236.4	328.4	605.3	1507.9	2685.1	2781.6	3032.8	2811.9	1630.2
62.5°	149.2	147.5	143.9	158.0	254.7	766.4	1999.1	2082.9	2576.7	2675.8	1571.1
65°	127.7	124.2	114.1	112.0	128.7	305.3	1245.1	1381.9	1967.4	2317.0	1402.8
67.5°	109.1	107.7	98.7	93.2	91.0	133.0	642.4	714.4	1344.7	1665.5	1062.6
70°	92.7	92.0	86.5	79.6	73.6	79.6	238.3	295.2	749.4	896.7	501.4
72.5°	75.3	76.0	77.0	68.2	62.0	56.5	101.8	118.4	313.6	320.5	175.4
75°	66.0	65.3	65.3	59.3	51.7	41.9	56.0	60.3	96.0	89.1	40.7
77.5°	46.5	44.8	52.4	48.9	43.1	29.8	31.9	33.8	39.8	34.1	19.1
80°	32.2	32.2	33.6	43.8	38.8	21.7	19.5	21.0	23.6	20.3	11.0
82.5°	18.1	18.6	21.9	23.4	22.6	14.5	12.9	13.1	15.7	13.8	6.9
85°	2.1	3.6	12.6	12.4	9.3	6.4	7.1	7.4	9.8	8.6	4.1
87.5°	0.2	0.5	2.6	3.3	2.4	2.6	2.6	2.6	3.3	3.8	2.9
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°	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7
2.5°	787.8	769.7	726.6	676.5	644.6	592.6	548.8	517.1	509.2	494.0	498.5
5°	786.9	749.2	661.3	568.3	469.2	395.3	340.3	296.9	277.9	265.2	256.4
7.5°	787.3	728.5	587.4	439.4	321.0	248.5	197.5	171.1	153.5	146.1	147.0
10°	788.8	705.1	501.6	325.5	216.6	160.6	129.4	116.8	110.8	109.9	109.6
12.5°	792.1	679.6	419.6	241.6	151.6	116.8	104.9	100.6	98.7	98.7	97.9
15°	795.7	651.5	351.5	179.7	116.8	100.3	94.8	92.7	91.5	91.5	91.3
17.5°	795.7	619.1	287.9	139.4	100.6	92.2	87.9	85.1	84.1	84.1	83.9
20°	790.7	581.4	231.4	112.2	91.3	84.6	80.3	77.2	76.0	75.5	75.3
22.5°	773.3	531.2	184.2	96.5	83.6	77.9	72.4	68.9	67.9	67.4	67.7
25°	742.3	474.4	145.8	84.8	76.7	69.8	65.1	62.4	61.5	61.5	61.7
27.5°	710.4	415.1	115.6	76.0	68.4	62.2	58.4	56.7	56.5	57.2	57.4
30°	680.8	355.5	93.7	68.9	61.0	55.8	53.1	52.7	52.7	52.9	53.1
32.5°	647.9	303.4	78.4	62.7	55.0	50.5	49.1	49.1	49.6	49.6	50.0
35°	627.2	258.6	68.9	56.7	50.5	46.7	45.8	46.0	46.7	47.7	48.1
37.5°	616.0	222.8	62.7	51.9	46.2	43.6	42.7	43.1	44.8	46.5	46.7
40°	616.9	195.9	57.7	47.9	42.9	40.0	39.3	40.7	42.4	44.1	44.3
42.5°	627.4	175.9	52.9	43.1	40.0	36.0	35.7	37.2	37.9	39.6	39.8
45°	639.8	161.3	47.9	38.1	34.8	31.2	31.5	32.6	33.6	36.2	36.7
47.5°	643.6	151.3	42.2	32.4	28.6	27.4	27.6	28.4	30.3	32.6	32.9
50°	647.9	145.1	36.7	27.4	24.3	24.1	24.3	24.8	26.0	26.9	26.7
52.5°	666.3	144.9	32.2	23.8	20.7	21.2	21.4	21.2	20.3	18.8	18.3
54°	683.4	145.6	30.0	22.2	19.1	19.8	19.5	18.3	16.0	14.5	13.8
55°	697.3	146.3	28.8	21.0	18.1	18.3	18.6	16.2	13.1	11.7	11.2
57.5°	724.4	144.6	26.0	18.3	16.0	15.0	14.8	10.7	7.1	6.2	5.7
60°	710.8	130.6	23.6	15.7	13.6	12.2	10.0	6.0	3.6	2.6	2.6
62.5°	657.5	110.8	21.0	12.9	11.2	9.3	5.2	3.3	1.7	1.0	0.7
65°	588.1	93.2	18.8	10.2	8.8	6.0	2.9	2.1	0.7	0.0	0.0
67.5°	437.3	69.1	16.0	8.1	6.7	3.8	1.9	1.2	0.2	0.0	0.0
70°	202.6	42.2	13.6	6.2	4.8	2.9	1.4	0.7	0.0	0.0	0.0
72.5°	58.1	26.5	11.2	4.5	3.3	2.4	1.2	0.5	0.2	0.0	0.0
75°	20.3	21.2	8.3	3.3	2.6	1.7	1.0	0.5	0.2	0.0	0.0
77.5°	12.2	17.2	5.2	2.9	2.1	1.4	1.0	0.5	0.2	0.2	0.0
80°	6.9	11.4	3.3	2.4	1.9	1.2	0.7	0.5	0.2	0.2	0.0
82.5°	3.8	5.5	2.6	2.1	1.7	1.2	0.7	0.5	0.2	0.2	0.2
85°	3.1	2.9	2.1	1.9	1.4	1.0	0.7	0.2	0.0	0.0	0.0
87.5°	2.4	1.9	1.9	1.9	1.4	1.0	0.7	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)