

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: P651664

Luminaire Tested: **GALN-SA1A-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651664
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-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 3188.3 lumens
Efficiency: N/A
Efficacy: 96.6 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

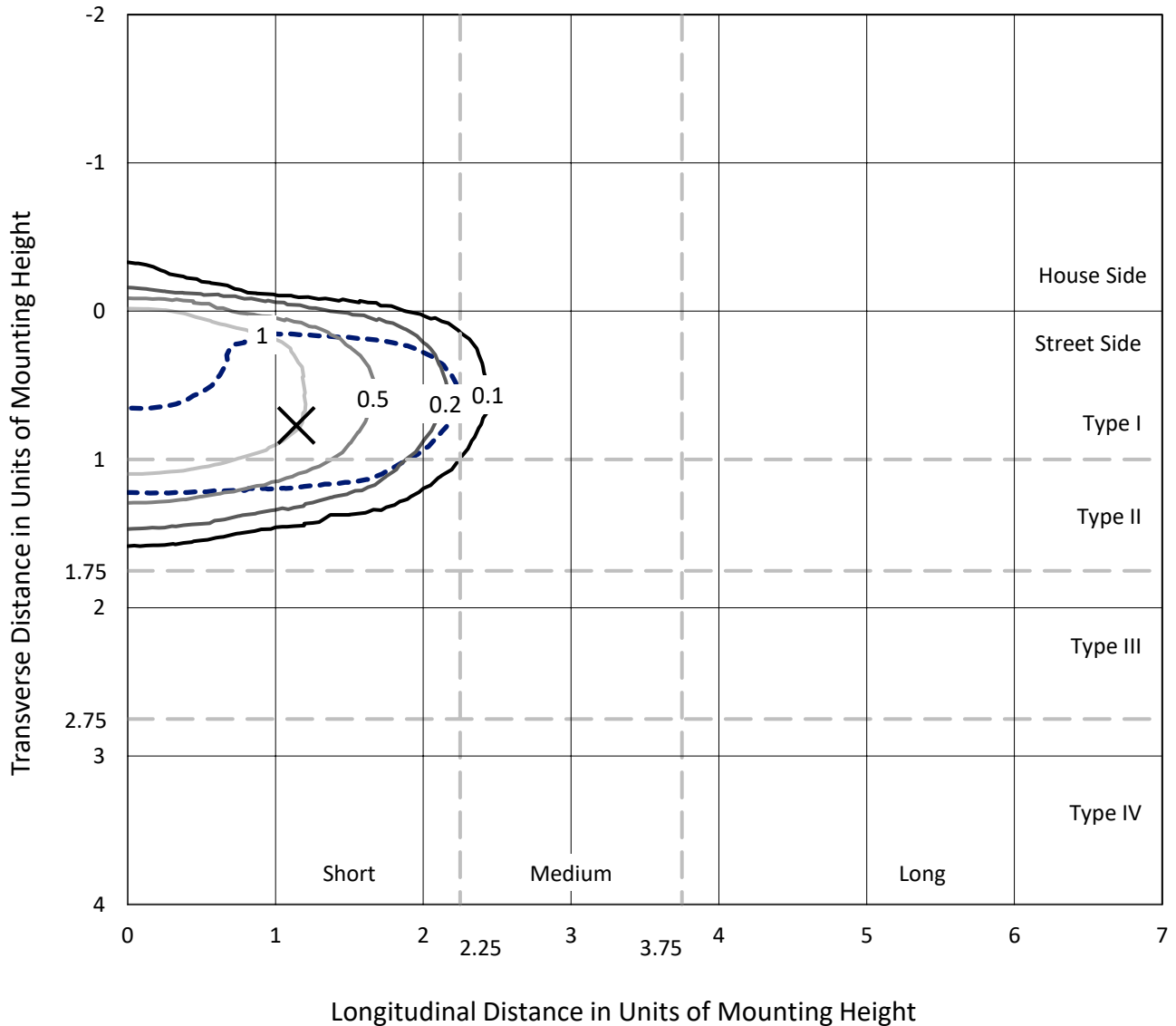
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

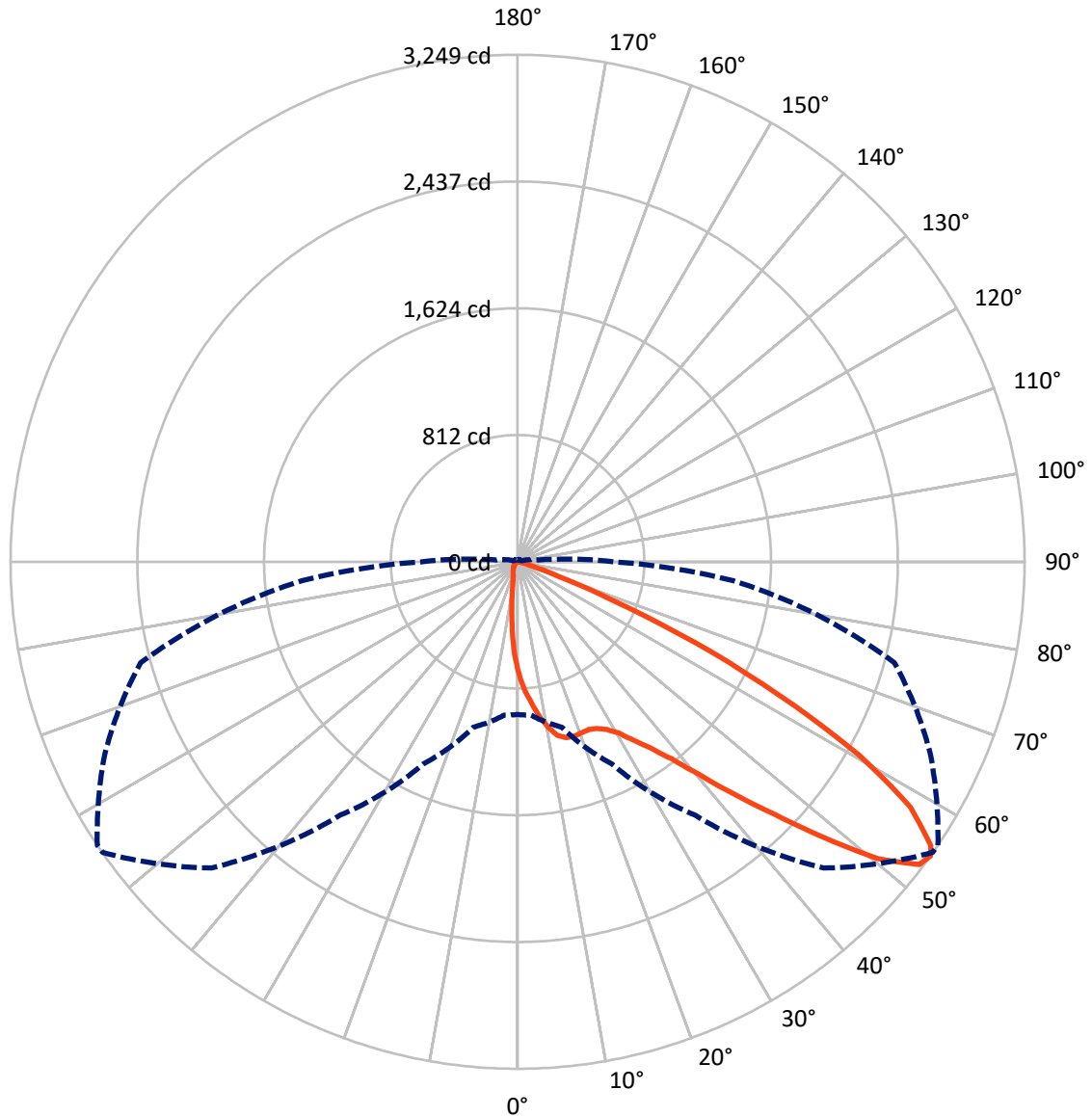
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	150.8	0.0	150.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	3037.5	0.0	3037.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	3188.3	0.0	3188.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	2.0
10°-20°	169.2	5.3
20°-30°	293.1	9.2
30°-40°	505.9	15.9
40°-50°	861.0	27.0
50°-60°	852.1	26.7
60°-70°	388.9	12.2
70°-80°	50.0	1.6
80°-90°	5.6	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°	3188.3	100.0
0°-180°	3188.3	100.0

Coefficient of Utilization

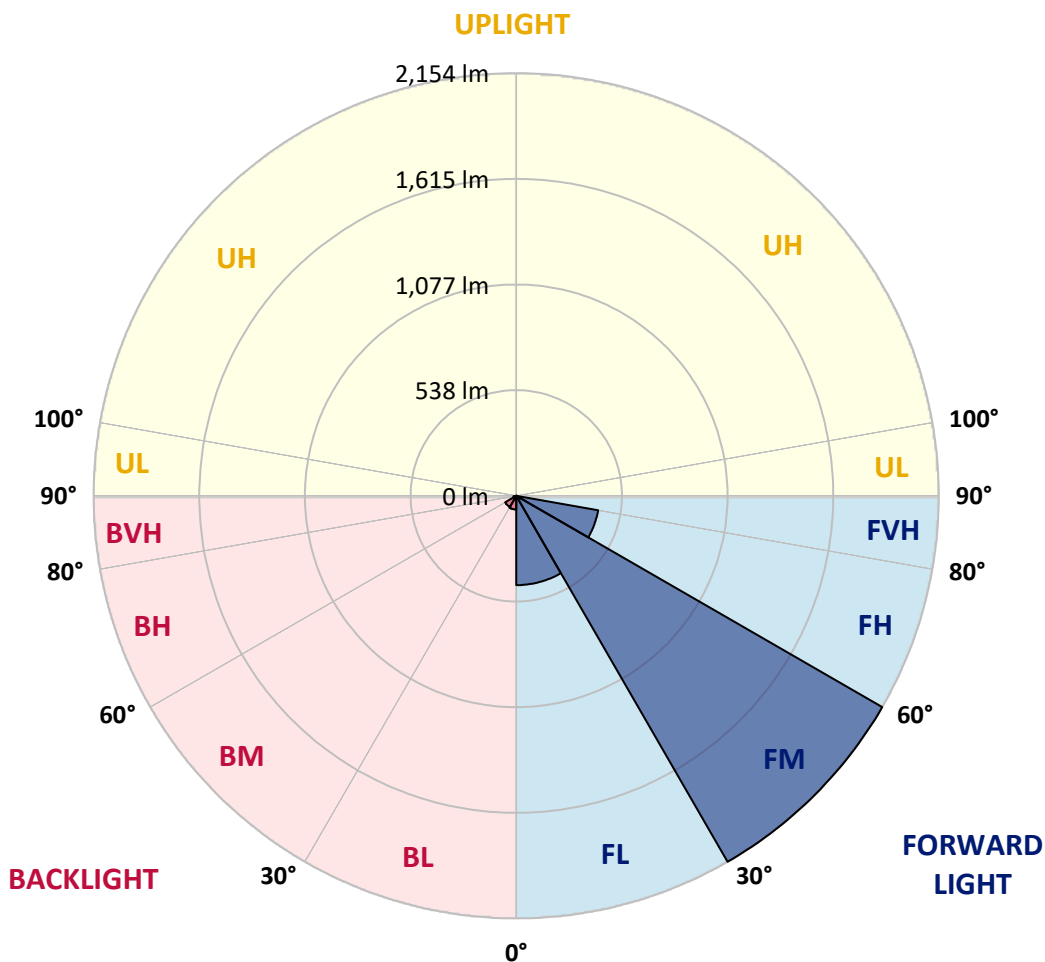


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.1	14.3			
FM (30°-60°)	2153.6	67.5			
FH (60°-80°)	423.7	13.3			G0/660
FVH (80°-90°)	5.0	0.2			G0/10
BL (0°-30°)	69.7	2.2	B0/110		
BM (30°-60°)	65.3	2.0	B0/220		
BH (60°-80°)	15.1	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	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°	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4
2.5°	900.2	894.0	885.4	878.7	863.0	840.4	816.5	816.5	793.5	761.4	728.7
5°	1038.3	1034.2	1025.9	1008.6	991.0	959.3	911.4	903.0	861.9	803.8	742.8
7.5°	1094.5	1096.4	1096.8	1092.3	1083.9	1052.7	1005.2	999.4	933.8	855.9	761.0
10°	1040.7	1050.2	1059.4	1078.1	1104.6	1112.1	1085.2	1079.2	1014.7	908.6	780.8
12.5°	960.7	965.8	970.9	1000.5	1053.6	1114.4	1142.7	1142.4	1087.7	961.1	806.0
15°	923.4	928.0	928.4	941.5	987.5	1076.1	1167.1	1170.3	1159.2	1025.9	833.1
17.5°	931.2	934.9	931.8	935.0	959.2	1034.0	1164.4	1175.1	1217.0	1088.0	857.7
20°	981.7	988.8	977.2	968.2	975.5	1022.8	1154.9	1169.9	1257.9	1148.6	880.0
22.5°	1072.5	1076.4	1061.8	1037.0	1024.1	1046.3	1152.3	1167.1	1292.8	1198.3	892.9
25°	1173.4	1172.1	1156.0	1128.2	1101.1	1093.6	1169.3	1182.6	1321.6	1243.1	896.8
27.5°	1274.3	1278.2	1251.1	1216.6	1184.1	1164.5	1207.3	1217.3	1354.1	1294.0	901.5
30°	1391.5	1385.3	1358.6	1319.2	1282.0	1254.7	1268.6	1271.5	1398.8	1361.6	914.0
32.5°	1544.0	1526.8	1496.9	1428.1	1401.4	1355.2	1358.6	1362.0	1453.2	1428.5	929.1
35°	1751.0	1750.0	1691.6	1598.8	1533.9	1476.5	1461.4	1464.2	1535.6	1527.8	962.4
37.5°	2000.1	2003.4	1936.8	1843.5	1723.8	1632.6	1601.7	1602.1	1660.8	1665.1	1013.2
40°	2202.8	2211.9	2172.1	2109.1	1991.0	1848.3	1796.3	1791.6	1836.7	1831.4	1085.6
42.5°	2290.2	2298.6	2313.4	2335.4	2270.4	2152.7	2029.9	2036.4	2050.1	2012.5	1167.0
45°	2247.4	2260.7	2319.1	2454.5	2515.6	2476.1	2329.6	2306.9	2248.7	2209.3	1248.6
47.5°	2069.1	2101.6	2199.0	2424.6	2638.5	2772.3	2667.7	2637.8	2447.5	2353.0	1300.7
50°	1775.9	1777.8	1913.5	2202.0	2574.8	2959.1	3013.0	2990.6	2632.7	2433.7	1326.9
52.5°	1287.4	1329.8	1454.1	1788.1	2299.0	2930.8	3233.0	3223.7	2823.7	2475.0	1364.9
54°	978.8	986.9	1097.4	1428.9	1982.2	2774.8	3246.5	3248.7	2918.5	2500.0	1387.2
55°	802.3	782.7	898.9	1217.3	1766.0	2637.0	3202.3	3212.5	2961.1	2512.8	1403.8
57.5°	380.3	380.6	469.4	642.1	1106.1	2047.6	2931.4	2968.0	2965.9	2535.0	1454.8
60°	192.5	193.8	213.4	296.5	546.4	1361.2	2423.8	2510.9	2737.6	2538.2	1471.5
62.5°	134.6	133.1	129.9	142.6	229.9	691.8	1804.5	1880.2	2325.9	2415.4	1418.2
65°	115.3	112.1	103.0	101.1	116.1	275.5	1123.9	1247.4	1775.9	2091.5	1266.3
67.5°	98.5	97.2	89.1	84.1	82.2	120.0	580.0	644.9	1213.8	1503.4	959.2
70°	83.7	83.0	78.0	71.8	66.4	71.8	215.1	266.5	676.5	809.5	452.5
72.5°	68.0	68.6	69.5	61.6	55.9	51.0	91.8	106.9	283.1	289.3	158.3
75°	59.5	59.0	59.0	53.6	46.7	37.8	50.5	54.4	86.7	80.5	36.8
77.5°	42.0	40.5	47.3	44.1	38.9	26.9	28.8	30.5	35.9	30.8	17.2
80°	29.0	29.0	30.4	39.6	35.1	19.6	17.7	18.9	21.3	18.2	9.9
82.5°	16.3	16.8	19.8	21.1	20.4	13.1	11.6	11.9	14.2	12.4	6.2
85°	1.9	3.2	11.4	11.2	8.4	5.8	6.5	6.6	8.8	7.7	3.6
87.5°	0.3	0.4	2.4	3.0	2.2	2.4	2.4	2.4	3.0	3.4	2.6
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°	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4
2.5°	711.1	694.8	655.8	610.7	581.9	535.0	495.3	466.8	459.7	445.9	450.0
5°	710.3	676.2	596.9	513.0	423.5	356.8	307.1	268.0	250.8	239.4	231.4
7.5°	710.7	657.6	530.3	396.6	289.7	224.4	178.3	154.4	138.5	131.9	132.7
10°	712.0	636.5	452.8	293.8	195.5	145.0	116.8	105.4	100.0	99.2	99.0
12.5°	715.0	613.5	378.8	218.2	136.8	105.4	94.6	90.7	89.1	89.1	88.4
15°	718.2	588.1	317.3	162.2	105.4	90.6	85.6	83.7	82.6	82.6	82.4
17.5°	718.2	558.8	259.9	125.8	90.7	83.3	79.4	76.8	75.9	75.9	75.7
20°	713.7	524.9	208.9	101.3	82.4	76.4	72.5	69.7	68.6	68.2	68.0
22.5°	698.0	479.5	166.3	87.1	75.5	70.3	65.4	62.1	61.3	60.9	61.1
25°	670.0	428.2	131.6	76.6	69.3	63.0	58.7	56.3	55.5	55.5	55.7
27.5°	641.3	374.7	104.3	68.6	61.7	56.2	52.7	51.2	51.0	51.6	51.8
30°	614.5	320.9	84.5	62.1	55.1	50.4	47.9	47.5	47.5	47.8	47.9
32.5°	584.8	273.8	70.7	56.6	49.7	45.6	44.3	44.3	44.7	44.7	45.2
35°	566.2	233.4	62.1	51.2	45.6	42.1	41.3	41.5	42.1	43.1	43.5
37.5°	556.1	201.1	56.6	46.9	41.7	39.4	38.5	38.9	40.5	42.0	42.1
40°	556.9	176.8	52.1	43.2	38.7	36.2	35.5	36.8	38.3	39.8	40.0
42.5°	566.3	158.8	47.8	38.9	36.2	32.5	32.3	33.6	34.2	35.7	35.9
45°	577.5	145.7	43.2	34.4	31.4	28.2	28.4	29.4	30.4	32.7	33.1
47.5°	581.0	136.6	38.1	29.3	25.8	24.7	25.0	25.6	27.3	29.4	29.7
50°	584.8	131.0	33.1	24.7	22.0	21.7	22.0	22.4	23.5	24.3	24.1
52.5°	601.4	130.8	29.0	21.5	18.8	19.2	19.3	19.2	18.2	17.0	16.6
54°	616.9	131.4	27.1	20.0	17.2	17.8	17.7	16.6	14.4	13.1	12.4
55°	629.4	132.0	26.0	18.9	16.3	16.6	16.8	14.6	11.9	10.5	10.1
57.5°	653.9	130.6	23.5	16.6	14.4	13.5	13.4	9.7	6.5	5.6	5.1
60°	641.7	117.9	21.3	14.2	12.3	10.9	9.0	5.4	3.2	2.4	2.4
62.5°	593.5	100.0	18.9	11.6	10.1	8.4	4.7	3.0	1.5	0.8	0.7
65°	530.8	84.1	17.0	9.3	8.0	5.4	2.6	1.9	0.7	0.0	0.0
67.5°	394.7	62.4	14.4	7.3	6.1	3.4	1.7	1.1	0.3	0.0	0.0
70°	182.8	38.1	12.3	5.6	4.3	2.6	1.3	0.7	0.0	0.0	0.0
72.5°	52.5	23.9	10.1	4.1	3.0	2.2	1.1	0.4	0.3	0.0	0.0
75°	18.2	19.2	7.6	3.0	2.4	1.5	0.8	0.4	0.3	0.0	0.0
77.5°	10.9	15.5	4.7	2.6	1.9	1.3	0.8	0.4	0.3	0.3	0.0
80°	6.2	10.3	3.0	2.2	1.7	1.1	0.7	0.4	0.3	0.3	0.0
82.5°	3.4	5.0	2.4	1.9	1.5	1.1	0.7	0.4	0.3	0.3	0.3
85°	2.8	2.6	1.9	1.7	1.3	0.8	0.7	0.3	0.0	0.0	0.0
87.5°	2.2	1.7	1.7	1.7	1.3	0.8	0.7	0.3	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)