

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: P458561

Luminaire Tested: **GALN-SA1B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

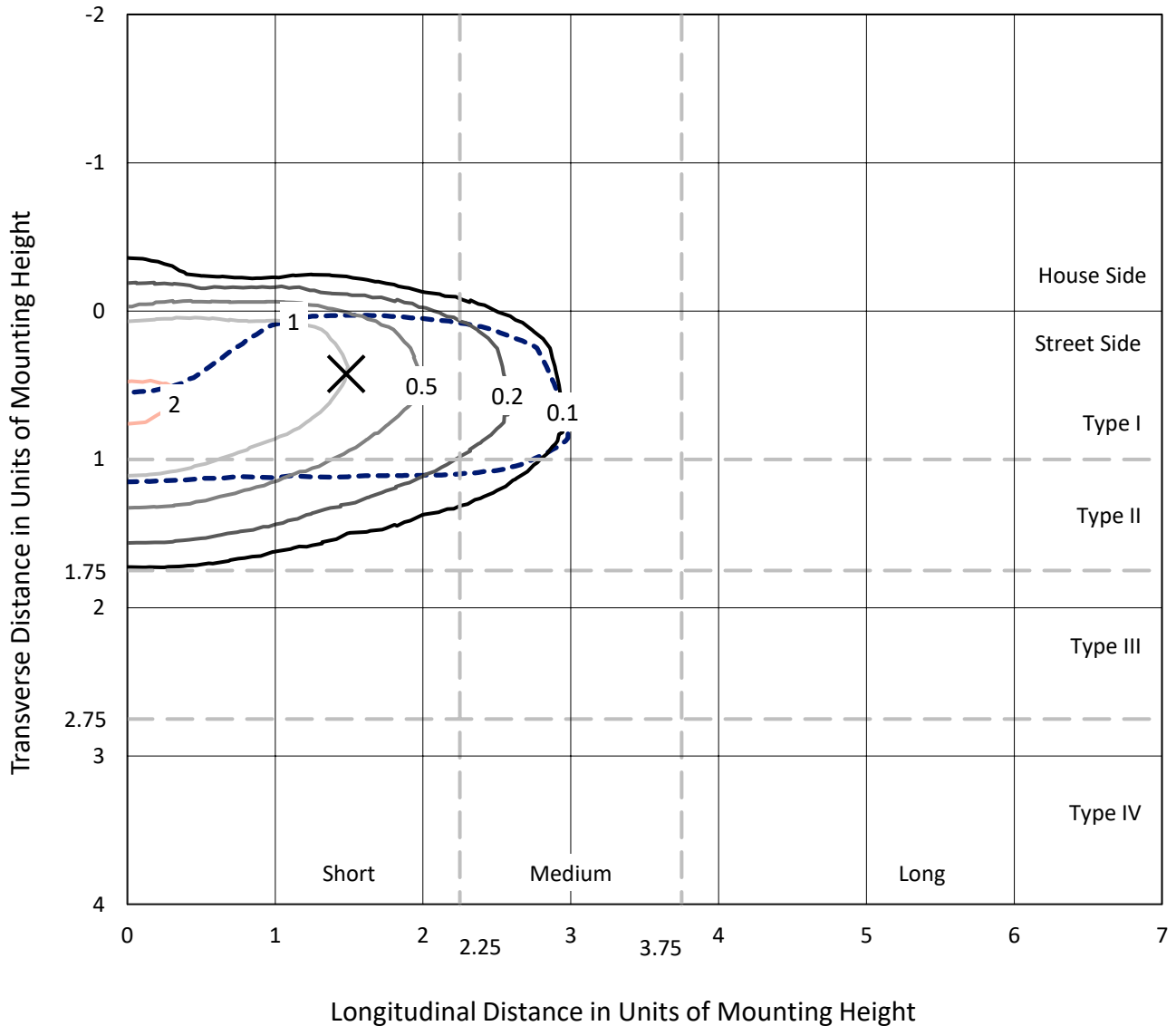
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

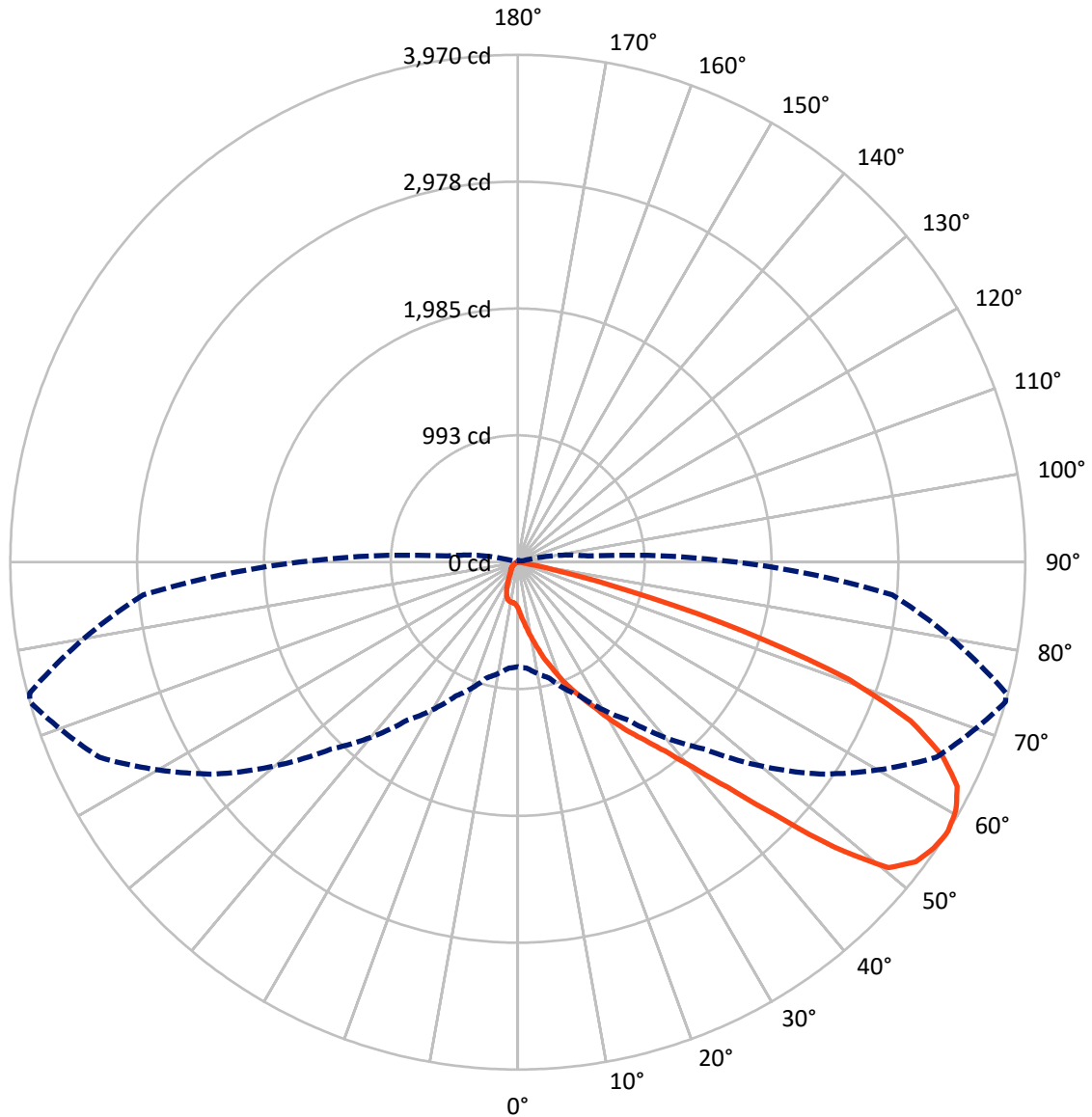
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	247.7	0.0	247.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4046.3	0.0	4046.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	4294.0	0.0	4294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.0
10°-20°	171.1	4.0
20°-30°	366.1	8.5
30°-40°	672.9	15.7
40°-50°	1031.5	24.0
50°-60°	1091.2	25.4
60°-70°	712.6	16.6
70°-80°	194.7	4.5
80°-90°	10.5	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°	4294.0	100.0
0°-180°	4294.0	100.0

Coefficient of Utilization



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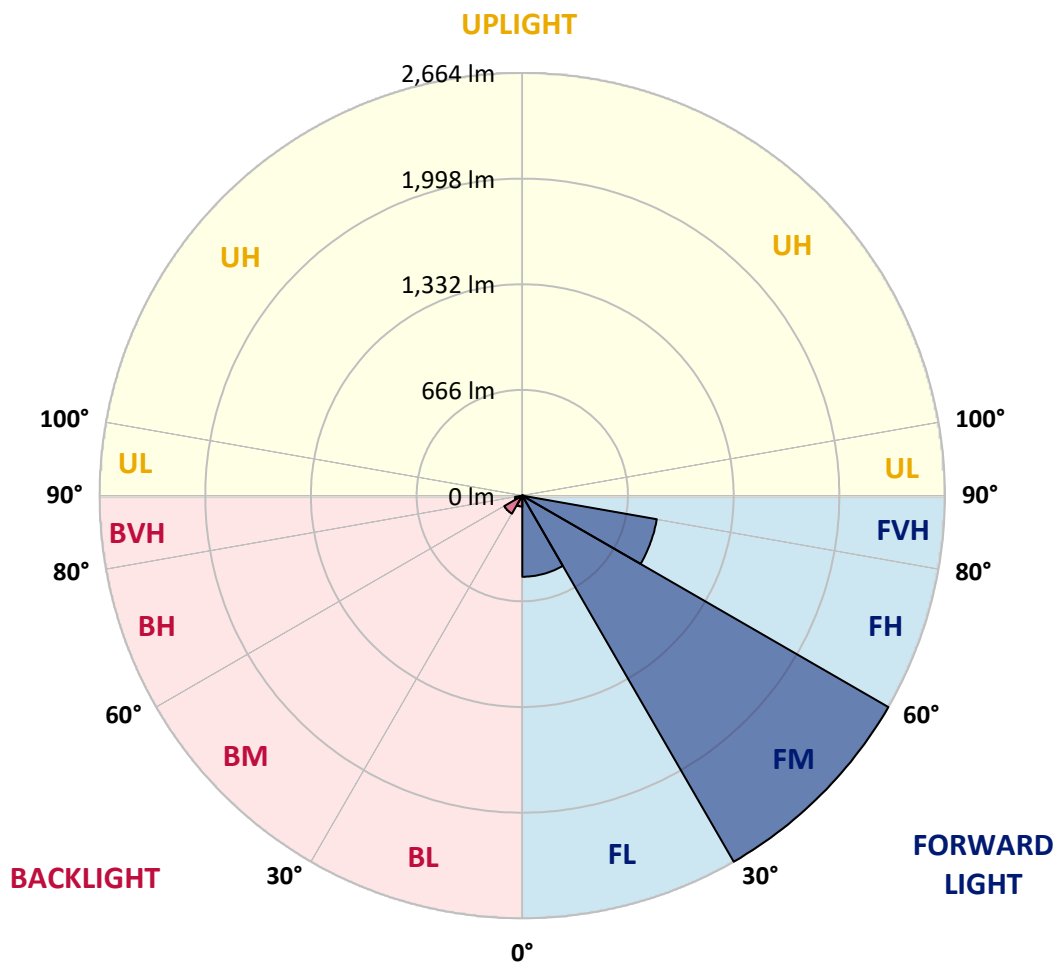
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.4	11.9			
FM	(30°-60°)	2664.5	62.1			
FH	(60°-80°)	860.8	20.0			G1/1800
FVH	(80°-90°)	9.6	0.2			G0/10
BL	(0°-30°)	69.2	1.6	B0/110		
BM	(30°-60°)	131.1	3.1	B0/220		
BH	(60°-80°)	46.5	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	526.2	521.5	512.0	508.7	494.8	473.2	454.2	428.7	408.5	406.5	382.1
5°	704.7	694.0	689.6	668.2	634.7	603.3	549.4	508.4	461.3	457.7	408.8
7.5°	876.7	861.8	857.4	837.2	798.1	748.6	678.6	604.2	529.5	522.7	444.7
10°	1001.2	1003.3	995.2	981.9	950.2	899.8	813.5	711.8	605.4	596.8	485.0
12.5°	1090.4	1090.1	1091.6	1091.3	1074.4	1036.2	945.4	828.3	689.0	672.1	531.3
15°	1148.5	1149.4	1153.9	1169.3	1171.1	1147.3	1071.7	939.8	785.9	764.9	581.4
17.5°	1207.2	1213.4	1220.6	1235.1	1248.1	1238.6	1185.3	1056.0	873.7	858.0	635.0
20°	1304.2	1312.8	1308.6	1317.5	1324.3	1325.2	1284.0	1163.3	980.1	953.7	696.4
22.5°	1459.2	1458.9	1448.3	1432.2	1418.9	1418.3	1381.0	1273.6	1076.8	1051.3	758.1
25°	1655.2	1656.1	1635.3	1589.7	1556.5	1515.8	1472.9	1370.3	1180.2	1148.8	823.0
27.5°	1879.9	1874.3	1842.9	1780.0	1714.2	1644.8	1582.8	1482.6	1289.9	1263.8	897.4
30°	2081.8	2079.7	2043.0	1966.2	1879.6	1809.9	1720.1	1623.5	1431.9	1399.9	980.7
32.5°	2269.8	2272.7	2221.7	2142.3	2058.7	1978.3	1883.5	1758.1	1571.3	1525.9	1071.4
35°	2416.5	2419.5	2366.7	2300.6	2214.6	2147.9	2057.5	1901.6	1708.8	1670.6	1175.8
37.5°	2494.8	2498.6	2468.1	2418.3	2364.6	2331.1	2246.9	2086.3	1876.1	1852.9	1299.1
40°	2509.6	2514.1	2500.7	2487.4	2484.4	2508.4	2483.8	2303.9	2107.9	2071.7	1482.9
42.5°	2465.1	2471.1	2477.0	2506.6	2567.1	2655.2	2740.9	2599.1	2406.4	2357.8	1707.7
45°	2348.3	2347.7	2371.2	2447.9	2583.4	2771.4	3009.5	2968.8	2813.2	2755.4	2025.2
47.5°	2148.5	2145.5	2196.2	2305.6	2516.7	2792.7	3228.5	3417.7	3332.3	3278.9	2366.4
50°	1844.0	1858.6	1938.3	2091.0	2351.0	2728.1	3296.1	3712.1	3758.3	3701.7	2642.1
52.5°	1487.4	1486.8	1611.9	1819.1	2105.5	2585.8	3249.0	3765.5	3896.8	3853.5	2777.9
55°	1100.8	1108.5	1238.6	1447.7	1786.8	2326.1	3095.1	3710.6	3949.6	3919.0	2867.4
57°	818.8	832.5	936.8	1158.0	1509.3	2069.1	2890.3	3612.5	3970.3	3953.7	2941.9
57.5°	764.3	764.9	866.6	1067.6	1428.1	1970.3	2831.6	3571.6	3969.7	3960.5	2954.0
60°	470.5	485.3	555.6	721.6	1045.3	1537.8	2438.2	3336.5	3938.9	3952.2	3005.9
62.5°	281.6	287.9	333.5	434.9	673.9	1122.4	1995.2	3035.5	3858.5	3899.2	3002.3
65°	181.1	182.6	203.4	263.3	421.3	758.7	1537.5	2638.0	3650.7	3725.4	2884.9
67.5°	139.9	142.3	150.6	172.8	244.3	472.6	1087.4	2213.7	3314.5	3410.9	2600.3
70°	124.2	125.4	128.4	135.5	161.6	266.8	676.5	1729.3	2748.6	2775.8	2035.0
72.5°	101.4	104.7	113.8	116.2	128.1	166.6	376.5	1160.7	1846.7	1853.5	1138.4
75°	78.6	79.2	92.8	99.6	107.9	114.7	168.1	585.2	887.0	839.6	438.8
77.5°	58.7	61.4	67.6	76.2	88.1	82.1	75.3	220.6	275.4	270.4	127.5
80°	37.7	39.1	47.1	57.2	68.5	53.7	42.4	64.6	60.5	62.3	30.5
82.5°	19.0	19.3	30.2	46.5	43.6	27.0	26.7	26.4	22.5	22.2	14.2
85°	2.1	4.4	19.6	26.7	19.6	8.9	12.5	12.2	11.9	12.2	8.3
87.5°	0.3	0.3	3.3	3.9	2.7	3.0	3.6	3.9	4.7	4.4	3.6
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°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	370.3	358.4	336.5	315.4	299.7	289.7	276.6	271.9	265.0	264.2	260.9
5°	386.3	363.8	325.5	295.3	271.0	252.6	236.6	223.2	212.6	210.2	211.4
7.5°	409.1	375.6	322.3	281.1	247.3	215.8	190.3	174.6	163.4	159.2	159.8
10°	434.9	391.3	321.7	265.9	214.3	175.8	147.9	134.0	127.5	125.1	122.4
12.5°	465.5	409.4	320.2	242.5	178.2	140.2	120.4	112.1	105.8	104.1	104.1
15°	499.8	428.7	313.1	213.5	144.7	115.9	102.6	96.1	94.0	92.2	92.2
17.5°	535.7	447.7	298.2	177.6	120.1	99.3	91.0	87.2	84.2	82.1	82.1
20°	576.6	466.3	274.5	145.9	101.4	88.6	82.1	77.7	75.3	73.5	72.9
22.5°	615.5	481.5	244.3	119.8	88.3	79.8	73.8	69.1	66.7	65.8	65.8
25°	655.8	490.7	207.8	99.0	80.6	72.3	65.8	62.0	59.9	59.3	59.0
27.5°	694.9	496.0	175.8	86.6	73.5	65.5	59.3	56.3	54.3	53.7	54.0
30°	742.4	496.9	144.7	77.7	67.3	59.0	53.4	50.7	49.5	48.9	48.6
32.5°	790.4	495.7	121.6	72.3	61.4	53.4	48.6	46.5	45.7	44.8	44.8
35°	844.3	489.5	103.5	67.0	55.7	48.6	44.5	42.7	41.5	40.6	40.3
37.5°	911.3	486.2	93.1	61.1	50.7	44.2	40.3	38.5	37.7	36.5	36.2
40°	1016.9	500.7	89.8	55.7	45.7	40.0	36.5	34.4	33.2	32.0	31.7
42.5°	1148.5	526.2	84.5	50.4	41.2	36.2	32.6	30.2	28.2	26.7	26.1
45°	1319.0	559.7	76.2	44.8	37.4	32.0	28.8	25.8	23.1	21.9	21.6
47.5°	1497.8	592.0	68.8	40.3	33.2	28.5	24.9	21.6	19.3	18.4	18.1
50°	1607.5	598.6	64.0	35.3	29.1	24.6	21.0	18.1	16.6	15.7	15.7
52.5°	1657.6	588.2	57.5	30.8	25.2	21.6	18.1	15.7	14.8	14.2	13.9
55°	1692.5	572.2	48.9	26.7	21.6	18.4	16.0	14.2	13.0	12.5	12.2
57°	1713.0	550.5	42.4	23.4	18.7	16.0	14.2	12.7	11.6	10.4	10.4
57.5°	1713.9	542.2	40.6	23.1	17.8	15.4	13.9	12.5	11.0	9.8	9.5
60°	1687.5	485.3	32.6	19.6	14.2	13.0	11.6	9.8	7.7	6.5	6.2
62.5°	1602.7	413.0	27.0	16.6	11.6	10.1	8.3	7.4	5.3	3.9	3.9
65°	1474.3	335.0	23.1	13.3	9.5	7.4	5.6	5.3	3.3	1.8	1.5
67.5°	1288.8	260.9	19.6	11.0	8.0	5.3	3.9	3.6	1.8	0.6	0.0
70°	981.9	177.9	16.3	8.9	5.9	3.9	2.7	2.1	1.2	0.3	0.0
72.5°	566.0	97.8	13.6	6.8	4.4	3.0	2.1	1.2	1.2	0.0	0.0
75°	202.2	42.1	10.4	5.0	3.6	2.4	1.5	0.6	0.9	0.3	0.0
77.5°	64.3	22.5	6.8	3.9	3.0	1.8	1.2	0.6	0.6	0.3	0.0
80°	19.0	11.9	4.2	3.3	2.1	1.5	0.9	0.3	0.6	0.3	0.0
82.5°	10.4	5.9	3.3	2.4	2.1	1.2	0.9	0.3	0.3	0.3	0.0
85°	5.3	3.6	2.7	2.4	2.1	1.2	0.9	0.3	0.0	0.3	0.3
87.5°	3.0	2.7	2.7	2.4	2.1	1.5	0.9	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)