

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: STREETWORKS

Report Number: P324835

Luminaire Tested: **GAN-SA1B-750-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA 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: 4898 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

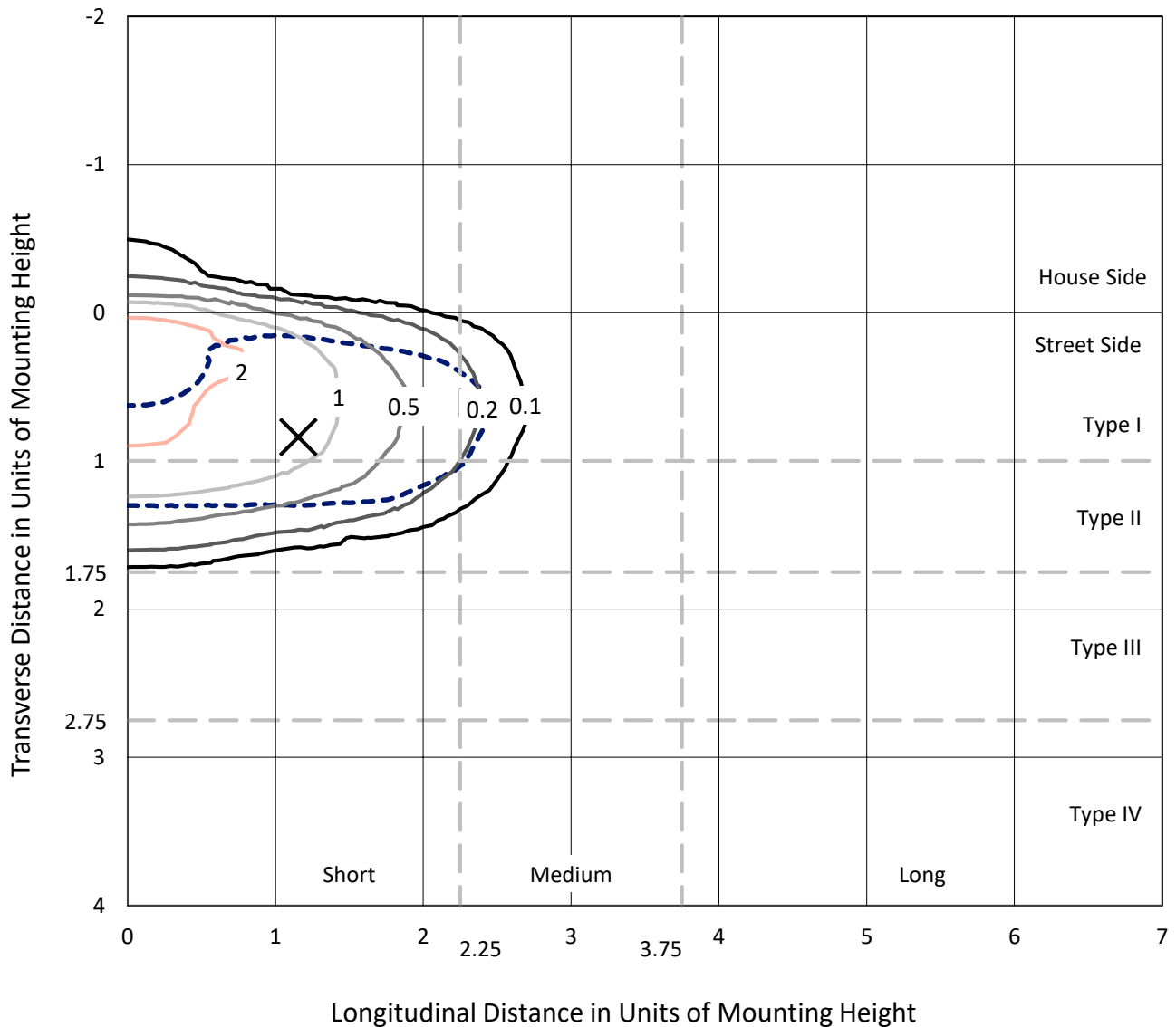
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

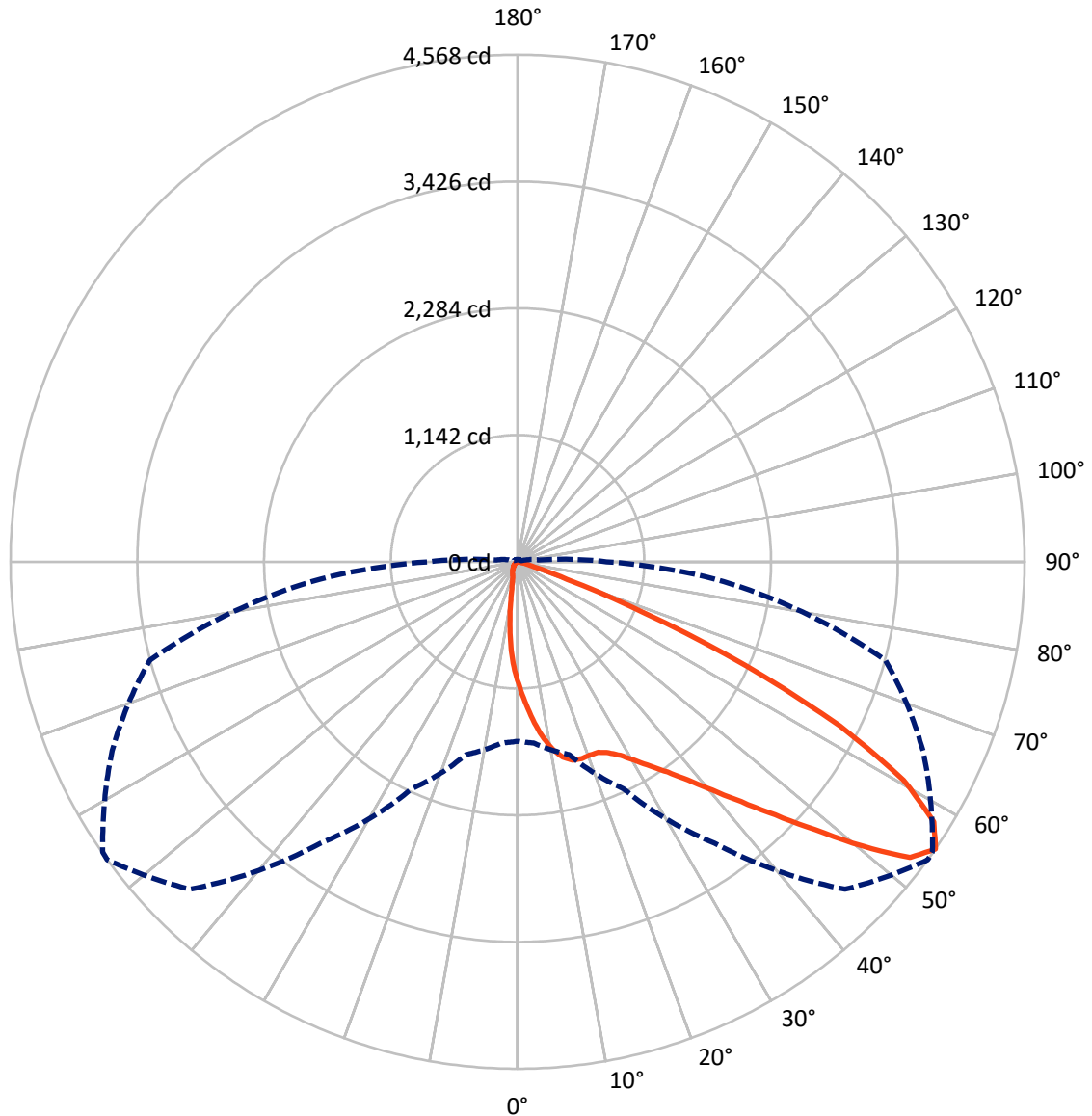
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.4	0.0	244.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4653.6	0.0	4653.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	4898.0	0.0	4898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	2.1
10°-20°	277.0	5.7
20°-30°	473.0	9.7
30°-40°	759.1	15.5
40°-50°	1213.0	24.8
50°-60°	1299.8	26.5
60°-70°	667.4	13.6
70°-80°	101.1	2.1
80°-90°	6.6	0.1
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°	4898.0	100.0
0°-180°	4898.0	100.0

Coefficient of Utilization

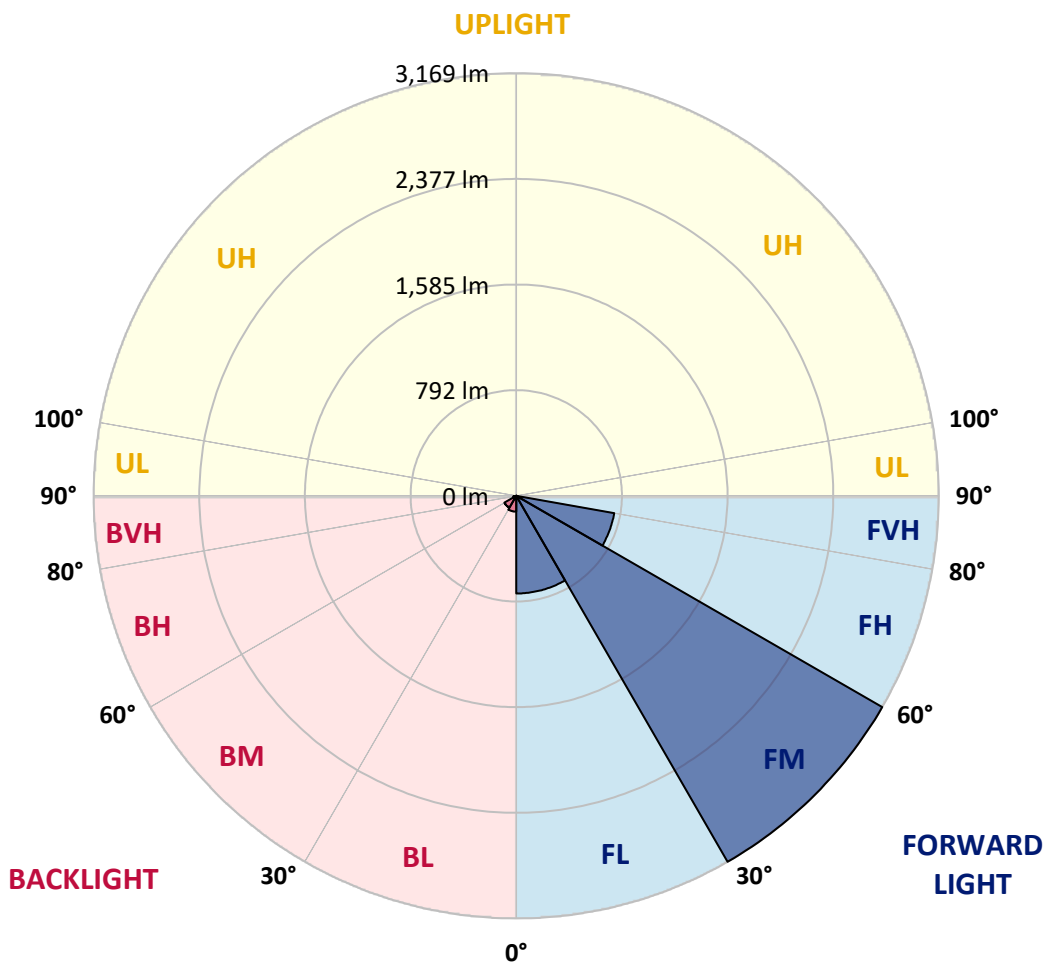


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.2	14.9			
FM (30°-60°)	3169.2	64.7			
FH (60°-80°)	745.9	15.2			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	118.9	2.4	B1/500		
BM (30°-60°)	102.7	2.1	B0/220		
BH (60°-80°)	22.5	0.5	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1376.6	1356.1	1356.7	1347.4	1313.3	1286.7	1259.0	1252.4	1209.3	1164.0	1120.4
5°	1614.6	1599.5	1595.9	1578.0	1530.6	1480.4	1426.7	1414.2	1329.8	1237.2	1146.0
7.5°	1736.8	1737.0	1734.1	1727.5	1697.9	1649.2	1583.7	1570.6	1455.7	1316.7	1172.7
10°	1701.3	1709.3	1725.8	1747.6	1770.2	1764.1	1714.8	1703.0	1578.2	1400.9	1202.3
12.5°	1618.4	1619.4	1637.8	1673.6	1738.7	1805.6	1806.4	1802.4	1695.1	1488.9	1234.9
15°	1577.1	1581.1	1587.9	1611.0	1672.7	1779.7	1856.3	1862.0	1802.4	1582.4	1269.6
17.5°	1604.2	1609.9	1604.2	1606.9	1642.7	1738.9	1865.0	1879.6	1896.1	1674.8	1302.3
20°	1677.6	1682.9	1672.7	1661.5	1668.5	1727.1	1858.9	1878.5	1969.5	1756.9	1329.8
22.5°	1776.6	1778.7	1763.3	1744.8	1739.8	1767.3	1863.9	1884.2	2028.3	1831.1	1347.2
25°	1885.5	1887.4	1868.2	1847.0	1835.0	1846.2	1905.6	1920.8	2080.1	1902.0	1357.1
27.5°	2004.2	2005.9	1981.8	1955.7	1941.8	1942.2	1974.4	1990.6	2135.3	1982.8	1365.2
30°	2129.6	2128.8	2106.6	2070.4	2052.6	2052.2	2073.3	2089.8	2215.3	2086.5	1376.2
32.5°	2270.5	2268.8	2237.3	2192.4	2172.3	2175.3	2194.1	2203.6	2314.5	2196.9	1395.8
35°	2456.0	2451.1	2403.5	2347.9	2310.9	2309.8	2325.7	2333.3	2441.0	2330.6	1428.6
37.5°	2696.7	2692.3	2627.7	2546.9	2494.9	2475.4	2494.3	2504.0	2621.4	2502.1	1481.3
40°	2934.0	2929.6	2891.3	2817.3	2737.1	2690.4	2705.2	2715.5	2846.7	2710.2	1547.7
42.5°	3097.7	3101.6	3114.9	3121.0	3045.9	2947.8	2954.5	2965.3	3083.4	2932.8	1623.6
45°	3140.9	3149.1	3224.4	3372.3	3400.4	3323.9	3253.0	3258.9	3323.9	3155.3	1699.6
47.5°	3011.2	3026.5	3171.8	3446.8	3684.9	3739.1	3605.0	3597.2	3554.6	3335.3	1753.5
50°	2716.6	2730.5	2918.8	3325.6	3771.2	4135.5	4026.8	4003.7	3757.1	3443.0	1772.6
52.5°	2290.2	2307.1	2460.0	2944.0	3608.6	4312.3	4426.1	4406.9	3905.6	3451.4	1775.7
55°	1617.3	1637.8	1799.6	2256.3	3093.1	4171.6	4567.6	4561.9	4028.9	3429.0	1782.5
57.5°	908.9	923.7	1098.2	1446.4	2265.4	3633.5	4419.8	4457.6	4103.3	3390.1	1792.7
60°	403.6	407.6	497.9	720.0	1326.2	2776.9	3996.5	4060.4	4039.4	3338.0	1809.8
62.5°	223.8	220.4	220.4	299.3	576.4	1719.0	3258.9	3364.5	3766.8	3276.5	1810.6
65°	175.4	172.2	163.1	164.4	219.6	763.0	2256.7	2444.4	3249.0	3096.1	1749.7
67.5°	148.7	146.0	136.9	133.3	136.4	251.7	1239.9	1434.8	2465.3	2627.1	1515.6
70°	125.6	123.7	119.1	114.6	106.6	124.4	474.4	606.9	1519.2	1747.6	1034.6
72.5°	101.1	100.3	102.0	98.1	88.4	82.9	162.2	196.5	682.4	779.9	426.2
75°	87.1	86.7	87.6	83.8	72.8	57.7	82.5	90.1	192.5	190.8	86.3
77.5°	56.7	57.3	72.6	70.9	62.6	38.5	42.7	46.1	58.4	43.8	26.2
80°	36.2	35.7	36.8	58.8	56.3	29.4	21.4	22.4	28.1	21.6	12.7
82.5°	22.0	21.6	24.1	27.5	28.3	20.5	13.1	13.3	17.6	14.0	6.8
85°	1.9	2.5	14.6	13.5	9.7	6.3	6.3	6.8	9.3	8.2	3.8
87.5°	0.0	0.0	2.5	3.8	2.1	2.3	2.3	2.5	3.6	3.6	1.9
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°	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1097.8	1075.8	1031.4	988.7	952.5	917.6	877.8	838.5	820.1	812.7	805.1
5°	1099.7	1054.4	962.9	870.6	775.0	688.9	615.5	540.2	502.6	486.1	478.5
7.5°	1102.2	1033.3	885.2	730.4	576.4	459.6	357.7	292.1	263.8	259.3	248.3
10°	1102.7	1007.7	795.1	575.6	386.5	277.1	213.2	179.4	166.9	164.8	161.2
12.5°	1103.5	977.4	695.1	426.2	257.6	185.3	154.2	143.0	139.6	139.4	139.4
15°	1106.1	945.7	591.2	307.1	185.1	146.8	135.4	130.9	129.7	130.3	130.1
17.5°	1106.1	908.3	489.3	228.9	149.5	132.0	125.6	122.7	122.3	122.9	123.1
20°	1098.0	862.8	395.8	178.1	132.6	122.5	116.8	114.0	113.0	113.4	113.6
22.5°	1078.8	807.0	319.6	147.4	121.4	113.8	107.7	103.4	101.7	102.0	102.0
25°	1048.7	740.8	250.0	127.5	112.3	104.5	97.3	92.4	91.4	91.2	91.6
27.5°	1010.2	667.6	199.0	112.3	101.5	94.1	86.9	82.9	82.1	82.3	82.5
30°	972.4	591.6	156.9	99.4	89.5	82.5	77.0	75.1	75.1	75.7	75.9
32.5°	937.7	518.7	124.2	88.2	78.7	72.3	69.2	69.0	70.0	70.4	70.6
35°	907.9	451.2	102.8	79.5	70.2	64.7	63.7	64.5	65.8	66.6	66.8
37.5°	886.7	390.9	89.9	72.3	63.7	59.2	59.0	60.7	62.4	64.3	64.7
40°	877.8	339.9	81.0	66.0	58.4	55.0	54.4	56.7	59.9	62.6	63.0
42.5°	870.4	298.2	73.4	59.9	54.1	49.3	49.1	52.0	55.8	58.6	59.2
45°	864.1	264.8	66.4	53.3	48.7	42.3	42.9	46.7	49.7	52.7	53.3
47.5°	851.0	237.3	58.8	46.3	40.2	36.2	37.4	40.8	43.2	47.6	48.2
50°	827.5	214.9	51.0	37.9	32.8	31.3	33.2	35.5	38.5	42.3	42.7
52.5°	811.6	198.0	44.2	31.7	27.1	27.5	29.4	30.2	31.9	33.4	33.0
55°	802.5	188.7	38.7	27.5	23.1	24.3	24.7	23.7	22.8	21.4	20.7
57.5°	801.5	180.2	34.5	23.9	20.3	20.9	19.5	15.9	12.9	11.2	10.8
60°	799.8	169.9	31.1	20.1	18.0	17.1	14.0	8.7	6.1	5.7	5.7
62.5°	781.4	153.8	28.6	16.9	15.2	12.9	8.0	4.0	3.4	3.6	3.6
65°	722.8	131.4	26.0	13.7	12.1	9.3	4.0	2.3	1.3	1.5	1.5
67.5°	614.5	104.7	23.3	10.6	9.1	5.9	2.3	1.1	0.0	0.0	0.0
70°	411.4	64.9	19.7	7.4	5.9	3.6	1.7	0.2	0.0	0.0	0.0
72.5°	157.8	35.1	15.9	4.4	3.8	2.5	1.1	0.0	0.0	0.0	0.0
75°	35.5	23.1	11.0	3.2	2.7	1.7	0.4	0.0	0.0	0.0	0.0
77.5°	13.5	16.7	6.3	2.1	1.9	1.1	0.0	0.0	0.0	0.0	0.0
80°	6.6	9.9	3.0	1.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	3.8	1.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.6	0.2	0.2	0.0	0.0	0.0	0.0	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)