

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: P482593

Luminaire Tested: **IFLD-L-SA8A-827-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482593
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

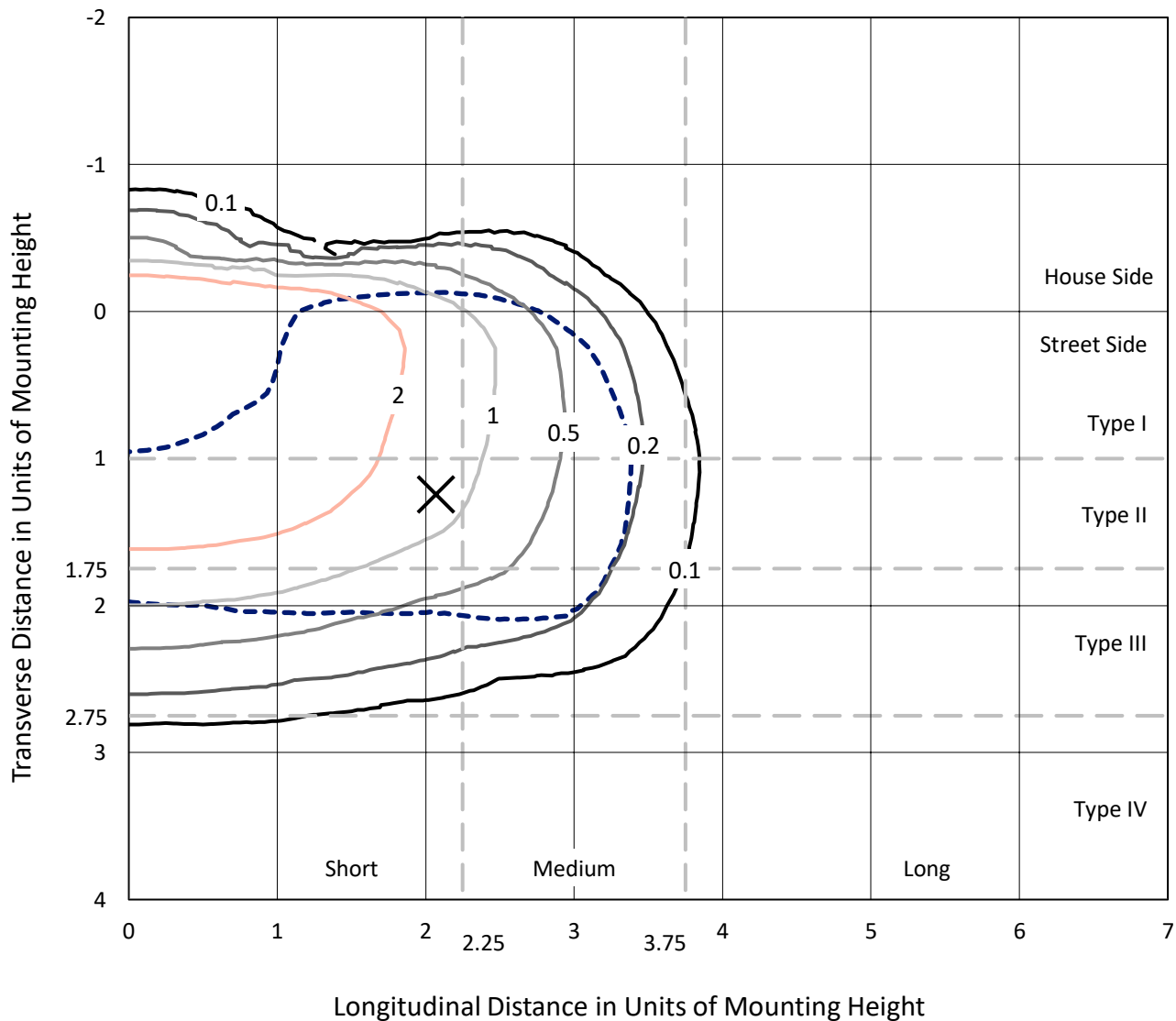
Lumens per Lamp: N/A
Luminaire Lumens: 18685.5 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
Input Voltage (V): 120
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

REPORT NUMBER: P482593
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

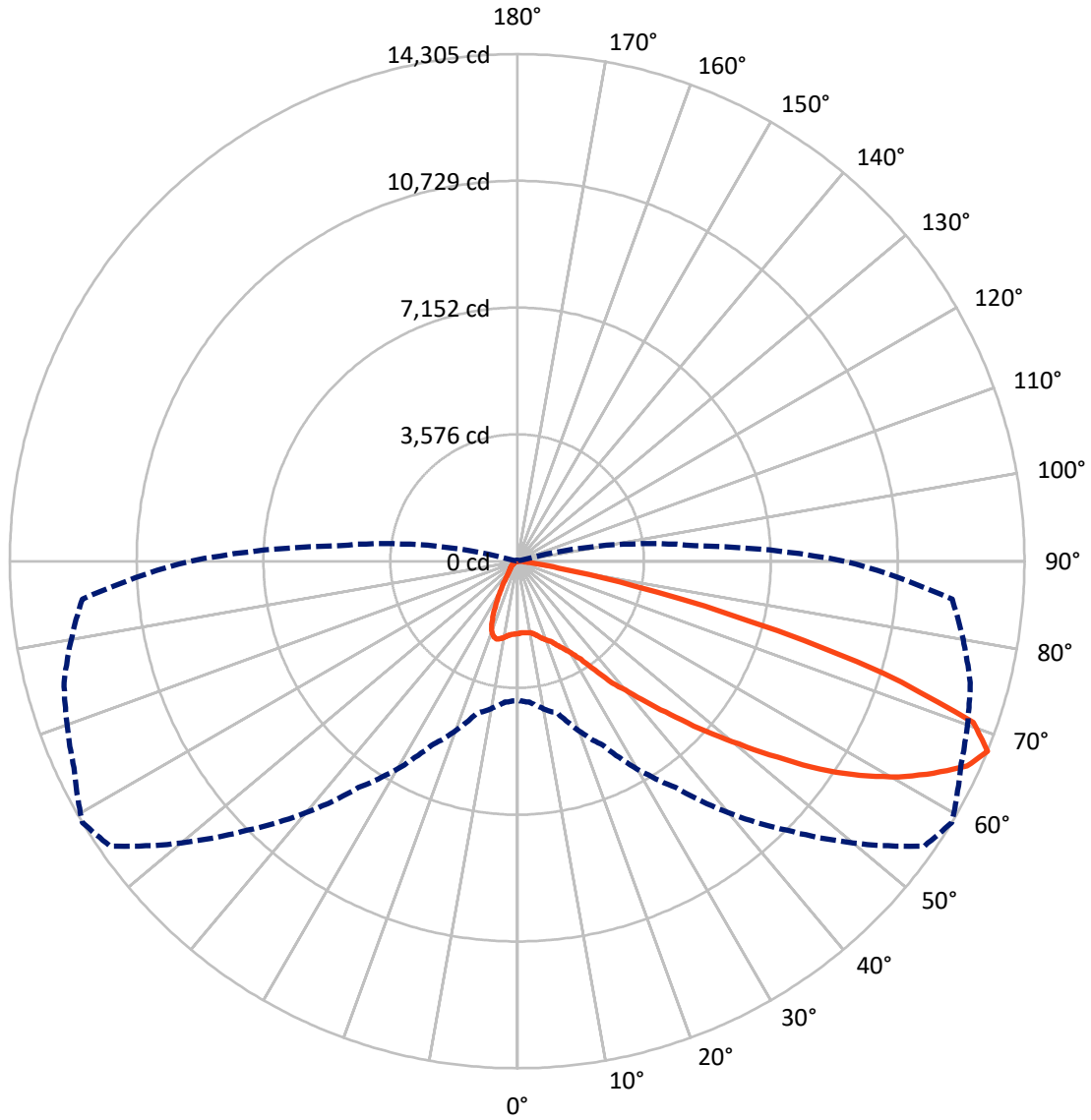
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P482593
CATALOG NUMBER: IFLD-L-SA8A-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482593
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2194.9	0.0	2194.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	16490.5	0.0	16490.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	18685.5	0.0	18685.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.0
10°-20°	562.3	3.0
20°-30°	982.8	5.3
30°-40°	1730.4	9.3
40°-50°	3058.8	16.4
50°-60°	4843.2	25.9
60°-70°	5372.4	28.8
70°-80°	1864.1	10.0
80°-90°	76.8	0.4
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°	18685.5	100.0
0°-180°	18685.5	100.0

Coefficient of Utilization

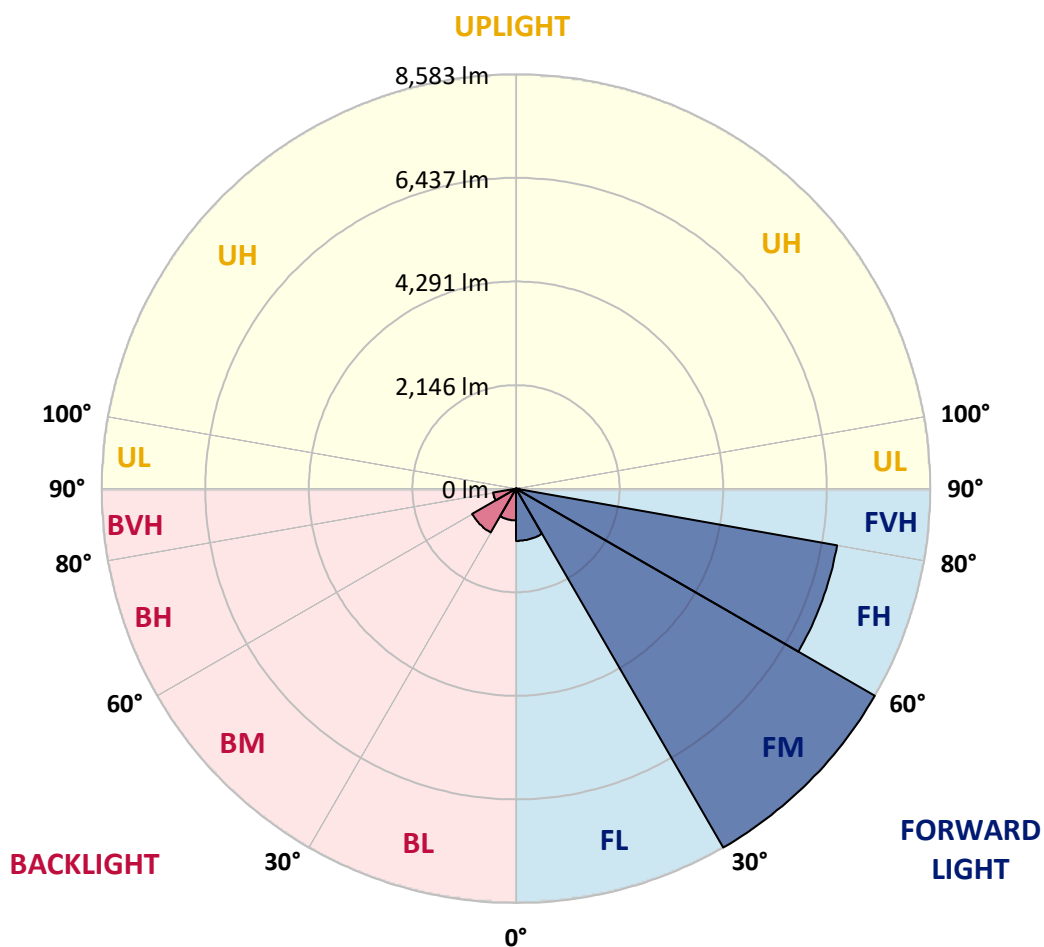


REPORT NUMBER: P482593
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.0	5.8			
FM (30°-60°)	8582.9	45.9			
FH (60°-80°)	6753.8	36.1			G3/7500
FVH (80°-90°)	71.8	0.4			G1/100
BL (0°-30°)	657.8	3.5	B2/1000		
BM (30°-60°)	1049.4	5.6	B2/2500		
BH (60°-80°)	482.7	2.6	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P482593

CATALOG NUMBER: IFLD-L-SA8A-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5
2.5°	1990.1	1961.7	1987.5	1990.1	1992.7	2015.9	2041.7	2023.6	2021.1	2041.7	2059.8
5°	1910.1	1897.2	1928.1	1943.6	1969.4	1990.1	2031.4	2034.0	2036.6	2059.8	2090.8
7.5°	1876.5	1845.5	1881.7	1899.8	1917.8	1966.9	2015.9	2041.7	2077.9	2106.2	2137.2
10°	1809.4	1832.6	1843.0	1873.9	1925.6	1982.4	2041.7	2054.6	2134.6	2157.9	2232.7
12.5°	1832.6	1848.1	1868.8	1876.5	1933.3	2018.5	2098.5	2103.7	2186.3	2286.9	2325.6
15°	1892.0	1881.7	1889.4	1899.8	1966.9	2036.6	2165.6	2188.8	2266.3	2379.9	2475.4
17.5°	2018.5	2000.4	1987.5	1984.9	2000.4	2064.9	2217.2	2286.9	2359.2	2514.1	2563.1
20°	2336.0	2320.5	2268.9	2134.6	2088.2	2114.0	2279.2	2377.3	2477.9	2650.9	2730.9
22.5°	2818.7	2834.1	2712.8	2524.4	2330.8	2230.1	2377.3	2462.5	2622.5	2841.9	2914.2
25°	3389.1	3358.1	3211.0	2991.6	2687.0	2449.5	2534.7	2630.2	2826.4	3007.1	3035.5
27.5°	3835.6	3799.5	3685.9	3420.1	3156.8	2772.2	2741.2	2800.6	3032.9	3195.5	3164.5
30°	4277.0	4289.9	4212.5	3897.6	3572.4	3167.1	2970.9	2996.8	3174.9	3383.9	3314.2
32.5°	4839.7	4808.7	4764.9	4488.7	4104.1	3670.4	3334.9	3293.6	3371.0	3647.2	3564.6
35°	5363.7	5345.6	5286.3	5007.5	4671.9	4199.6	3871.8	3778.9	3760.8	4067.9	3923.4
37.5°	5820.6	5789.6	5699.3	5521.2	5195.9	4798.4	4439.6	4357.0	4354.5	4566.1	4287.3
40°	6205.2	6228.4	6218.1	6021.9	5843.8	5526.3	4976.5	4844.9	4834.6	4948.1	4785.5
42.5°	6703.3	6757.5	6729.2	6690.4	6476.2	6352.3	5730.2	5528.9	5438.6	5670.9	5523.7
45°	7457.0	7477.7	7495.8	7400.3	7186.0	7211.8	6509.7	6269.7	6246.5	6592.3	6262.0
47.5°	8161.7	8107.5	8234.0	8239.1	8228.8	8110.1	7351.2	7173.1	7204.1	7467.4	7126.7
50°	8337.2	8476.6	8825.1	8889.6	9057.4	9165.8	8285.6	8107.5	8159.1	8458.5	8068.8
52.5°	8474.0	8685.7	9034.1	9506.5	9958.2	10216.3	9331.0	9186.4	9183.9	9367.1	8830.2
55°	8714.1	8843.1	9145.1	9795.6	10655.1	11078.4	10590.6	10358.3	10149.2	10278.3	9620.1
57.5°	8690.9	8739.9	9209.7	10012.4	11207.5	11976.7	11625.7	11403.7	11135.2	11060.4	10528.7
60°	8283.0	8399.2	8925.7	9865.3	11548.2	12676.2	12591.0	12363.9	11901.8	11726.3	11225.6
62.5°	7475.1	7630.0	8043.0	9349.1	11052.6	12712.3	13257.0	13171.8	12655.6	12340.6	12134.2
65°	6058.0	6130.3	6605.3	8037.8	9932.4	12157.4	14044.2	13938.4	13463.5	12993.7	12601.3
67.5°	3923.4	3993.1	4450.0	5738.0	7800.3	10724.8	14013.3	14304.9	13791.3	13226.0	12309.7
70°	1853.3	1835.2	2261.1	3187.8	4997.2	8190.1	13066.0	13641.6	13205.3	11989.6	10224.1
72.5°	565.3	614.3	939.6	1411.9	2565.7	5108.2	10242.1	10781.6	10644.8	9578.8	6824.7
75°	250.4	271.0	369.1	578.2	1040.2	2095.9	6326.5	6806.6	6747.2	5650.2	3115.5
77.5°	160.0	175.5	232.3	330.4	472.4	665.9	2914.2	3381.4	3278.1	1984.9	815.7
80°	113.6	121.3	165.2	227.1	296.8	273.6	1004.1	1192.5	1143.5	539.5	219.4
82.5°	61.9	67.1	121.3	167.8	198.8	139.4	281.3	351.0	366.5	240.1	105.8
85°	23.2	28.4	74.9	118.7	103.2	64.5	82.6	100.7	131.6	131.6	49.0
87.5°	0.0	2.6	31.0	51.6	25.8	18.1	23.2	28.4	36.1	61.9	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482593
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5	2049.5
2.5°	2072.7	2054.6	2062.4	2075.3	2046.9	2062.4	2031.4	2054.6	2062.4	2031.4	2046.9
5°	2098.5	2116.6	2106.2	2085.6	2067.5	2072.7	2064.9	2046.9	2062.4	2067.5	2057.2
7.5°	2173.4	2152.7	2157.9	2134.6	2098.5	2095.9	2046.9	2034.0	2039.1	2044.3	2026.2
10°	2243.1	2256.0	2230.1	2212.1	2152.7	2114.0	2046.9	1974.6	1966.9	1935.9	1961.7
12.5°	2366.9	2336.0	2325.6	2266.3	2206.9	2077.9	1933.3	1822.3	1729.4	1695.8	1662.3
15°	2470.2	2465.0	2447.0	2356.6	2219.8	1984.9	1711.3	1453.2	1275.1	1164.1	1148.6
17.5°	2612.2	2588.9	2555.4	2413.4	2124.3	1742.3	1275.1	949.9	771.8	702.1	676.3
20°	2720.6	2702.5	2656.0	2400.5	1951.4	1298.3	789.8	604.0	560.1	547.2	549.8
22.5°	2878.0	2821.2	2733.5	2336.0	1636.5	864.7	567.9	539.5	531.7	521.4	524.0
25°	3014.8	2963.2	2779.9	2225.0	1166.7	573.0	526.6	511.1	498.2	485.3	482.7
27.5°	3136.1	3071.6	2829.0	1997.8	730.5	493.0	487.8	469.8	444.0	423.3	415.6
30°	3254.9	3180.0	2841.9	1571.9	493.0	446.5	433.6	405.2	371.7	343.3	338.1
32.5°	3453.6	3363.3	2823.8	1122.8	425.9	397.5	369.1	335.6	286.5	263.3	258.1
35°	3763.4	3626.6	2800.6	660.8	382.0	351.0	307.2	263.3	227.1	203.9	198.8
37.5°	4119.6	3882.1	2733.5	441.4	351.0	309.7	253.0	209.1	178.1	160.0	154.9
40°	4648.7	4256.4	2475.4	361.4	312.3	263.3	203.9	165.2	142.0	129.1	123.9
42.5°	5232.1	4684.9	2077.9	325.2	276.2	224.6	162.6	134.2	116.2	103.2	103.2
45°	5931.6	5131.4	1602.9	296.8	245.2	185.8	134.2	108.4	92.9	82.6	77.4
47.5°	6711.1	5536.6	1081.5	268.4	206.5	152.3	111.0	82.6	67.1	59.4	59.4
50°	7408.0	5895.4	689.2	234.9	180.7	126.5	90.3	67.1	54.2	43.9	41.3
52.5°	8040.4	6169.0	474.9	206.5	154.9	103.2	74.9	54.2	41.3	33.6	33.6
55°	8688.3	6308.4	351.0	178.1	134.2	87.8	61.9	49.0	36.1	28.4	25.8
57.5°	9220.0	6367.8	268.4	154.9	113.6	69.7	54.2	41.3	31.0	23.2	20.6
60°	9674.3	6339.4	209.1	129.1	90.3	59.4	46.5	33.6	25.8	18.1	15.5
62.5°	9940.1	6169.0	165.2	111.0	72.3	51.6	38.7	28.4	18.1	12.9	10.3
65°	9945.3	5807.7	129.1	82.6	54.2	43.9	33.6	23.2	12.9	5.2	2.6
67.5°	9232.9	5025.6	103.2	64.5	43.9	33.6	25.8	18.1	5.2	0.0	0.0
70°	7222.2	3802.1	85.2	51.6	36.1	28.4	18.1	10.3	2.6	0.0	0.0
72.5°	4602.3	2276.6	69.7	41.3	31.0	20.6	12.9	7.7	0.0	0.0	0.0
75°	1925.6	702.1	54.2	36.1	23.2	15.5	10.3	2.6	0.0	0.0	0.0
77.5°	495.6	222.0	43.9	31.0	23.2	12.9	7.7	2.6	0.0	0.0	0.0
80°	147.1	82.6	36.1	25.8	18.1	10.3	5.2	2.6	0.0	0.0	0.0
82.5°	67.1	49.0	31.0	23.2	15.5	10.3	5.2	0.0	0.0	0.0	0.0
85°	25.8	15.5	15.5	12.9	12.9	7.7	2.6	0.0	0.0	0.0	0.0
87.5°	10.3	5.2	5.2	5.2	2.6	2.6	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)