

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: P483359

Luminaire Tested: **IFLD-S-SA6B-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483359
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

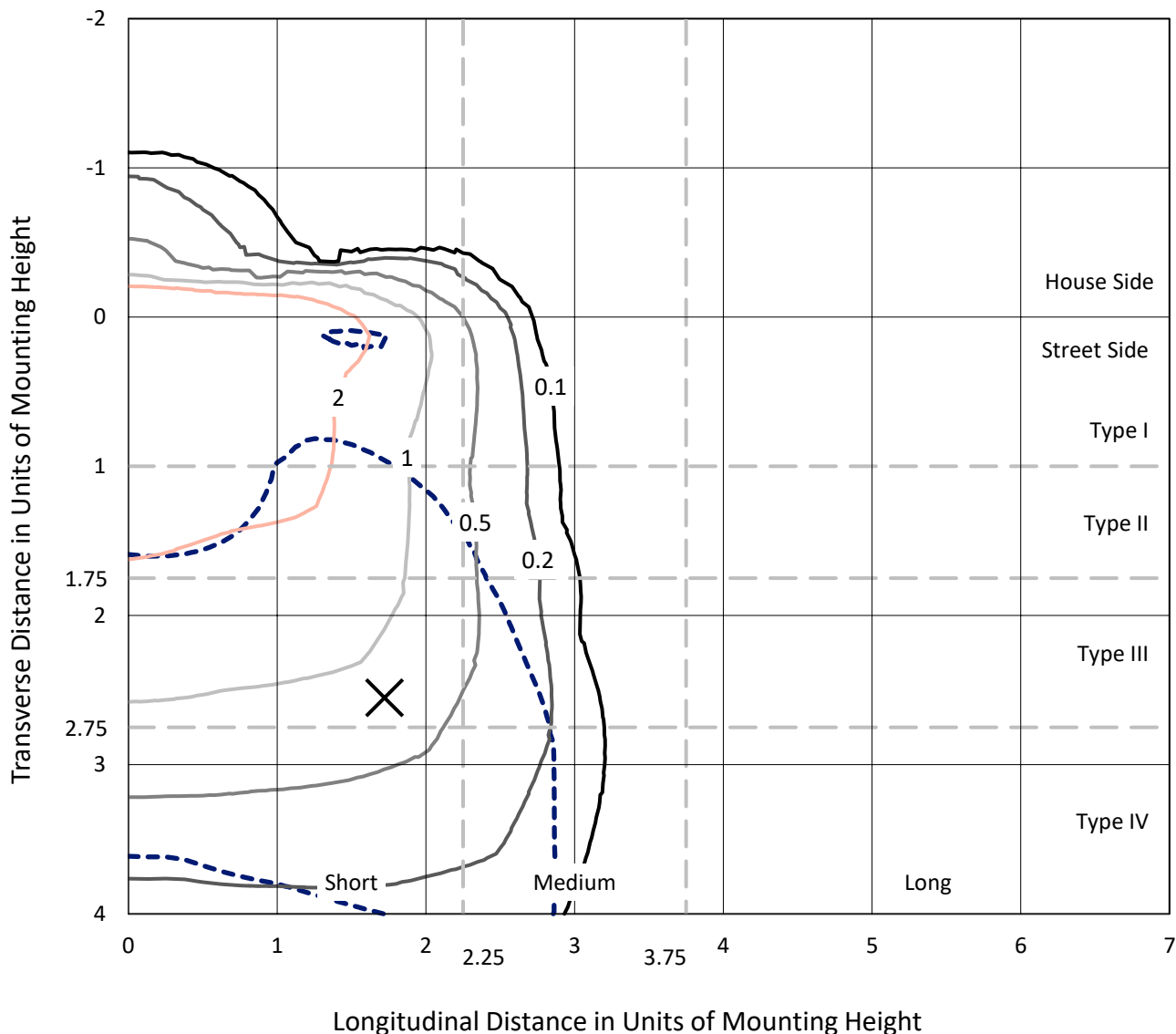
Lumens per Lamp: N/A
Luminaire Lumens: 17742.7 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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: P483359
 CATALOG NUMBER: IFLD-S-SA6B-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

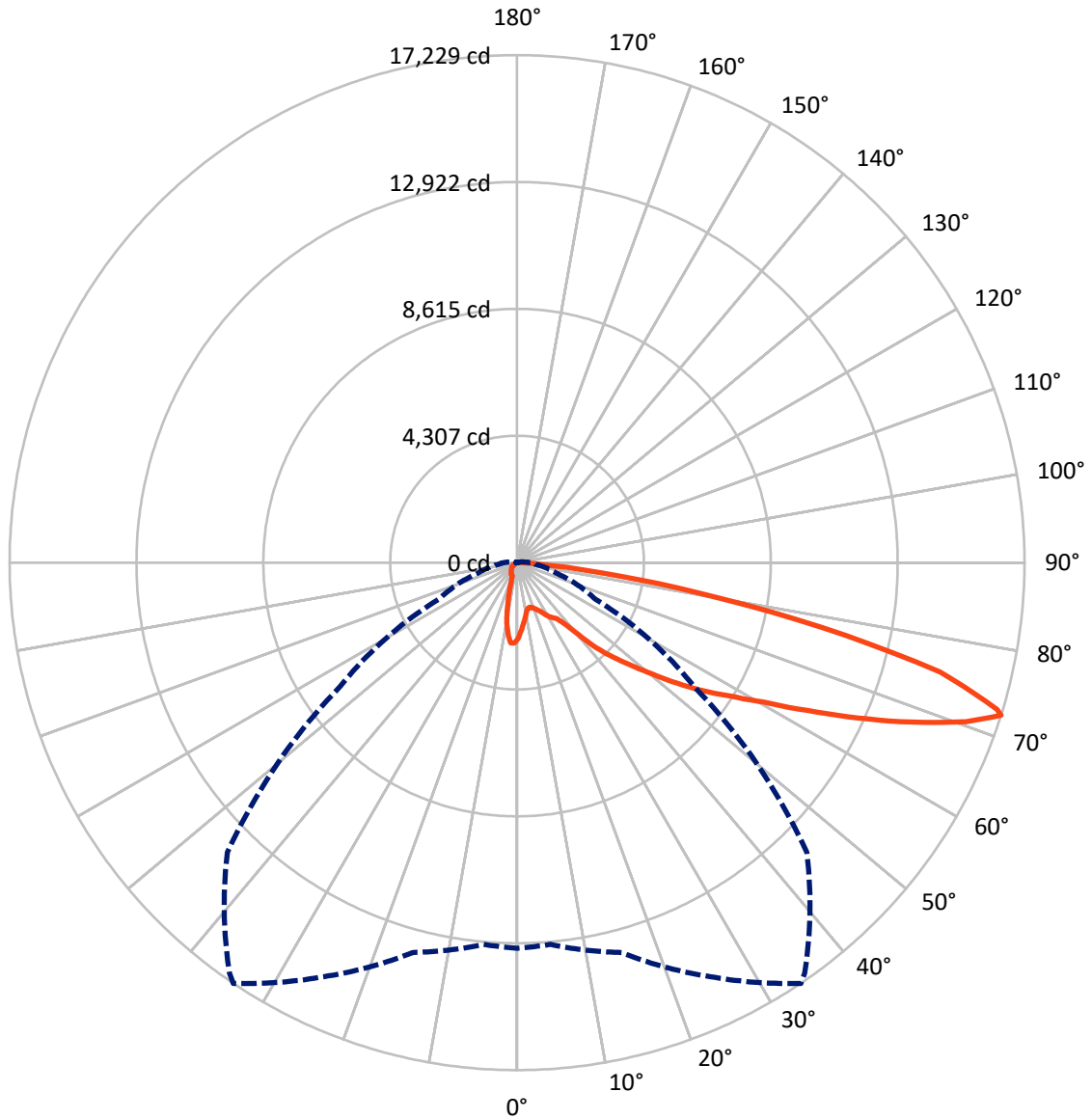
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P483359
CATALOG NUMBER: IFLD-S-SA6B-827-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1816.4	0.0	1816.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	15926.2	0.0	15926.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	17742.7	0.0	17742.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	1.3
10°-20°	510.2	2.9
20°-30°	770.0	4.3
30°-40°	1249.6	7.0
40°-50°	2349.8	13.2
50°-60°	3842.0	21.7
60°-70°	5107.4	28.8
70°-80°	3420.4	19.3
80°-90°	268.0	1.5
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°	17742.7	100.0
0°-180°	17742.7	100.0

Coefficient of Utilization



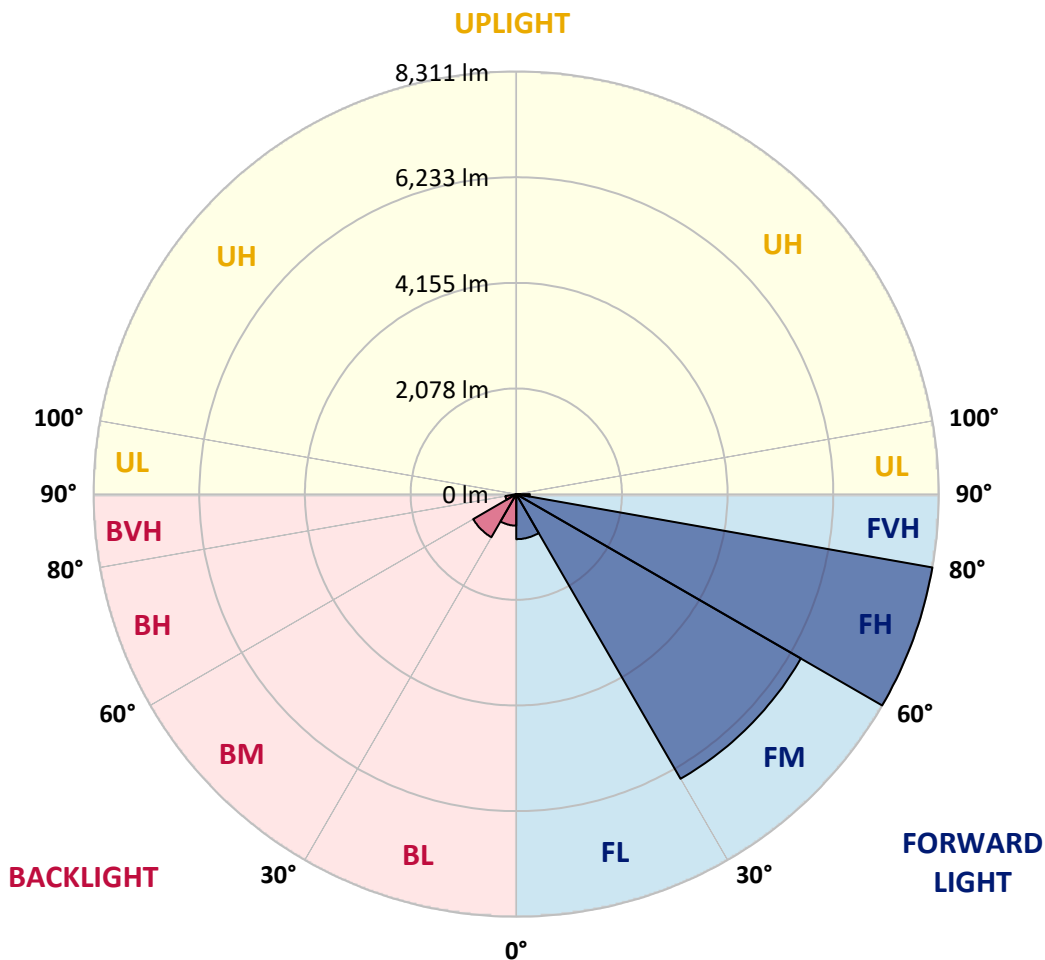
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 CATALOG NUMBER: IFLD-S-SA6B-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.7	5.0			
FM (30°-60°)	6463.6	36.4			
FH (60°-80°)	8310.5	46.8			G4/12000
FVH (80°-90°)	266.3	1.5			G3/500
BL (0°-30°)	619.8	3.5	B2/1000		
BM (30°-60°)	977.8	5.5	B1/1000		
BH (60°-80°)	217.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P483359

CATALOG NUMBER: IFLD-S-SA6B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8
2.5°	2295.7	2290.5	2305.9	2331.6	2357.2	2347.0	2395.7	2447.0	2482.9	2531.6	2590.6
5°	2005.8	2018.6	2034.0	2085.3	2118.7	2126.4	2216.2	2282.8	2393.1	2506.0	2611.2
7.5°	1741.6	1757.0	1787.8	1844.2	1913.5	1931.4	2021.2	2154.6	2298.2	2447.0	2618.9
10°	1549.3	1564.6	1598.0	1633.9	1726.2	1726.2	1849.4	2034.0	2221.3	2395.7	2621.4
12.5°	1508.2	1515.9	1513.3	1541.6	1600.6	1613.4	1733.9	1936.6	2154.6	2377.7	2662.5
15°	1556.9	1562.1	1536.4	1521.0	1572.3	1585.2	1698.0	1877.6	2111.0	2388.0	2729.1
17.5°	1654.4	1636.5	1585.2	1562.1	1605.7	1613.4	1718.5	1875.0	2105.9	2416.2	2806.1
20°	1710.8	1731.4	1641.6	1598.0	1659.5	1669.8	1782.7	1916.0	2131.5	2465.0	2913.8
22.5°	1810.9	1821.1	1700.6	1672.4	1731.4	1731.4	1859.6	1998.1	2193.1	2544.5	3042.1
25°	1952.0	1939.1	1798.1	1769.8	1826.3	1849.4	1977.6	2128.9	2288.0	2618.9	3160.1
27.5°	2062.3	2069.9	1954.5	1880.1	1975.0	1990.4	2128.9	2270.0	2359.8	2680.4	3303.7
30°	2226.4	2211.0	2087.9	2003.3	2121.2	2123.8	2257.2	2403.4	2498.3	2790.7	3519.2
32.5°	2421.4	2390.6	2249.5	2128.9	2223.8	2246.9	2382.9	2595.8	2713.8	2998.5	3852.6
35°	2834.3	2759.9	2529.1	2341.8	2349.5	2359.8	2570.1	2875.4	3011.3	3262.7	4298.9
37.5°	3437.1	3406.3	3144.7	2788.1	2652.2	2621.4	2857.4	3244.7	3414.0	3611.5	4878.6
40°	4034.7	3991.1	3747.4	3478.1	3231.9	3170.3	3288.3	3734.6	3888.5	4096.3	5473.7
42.5°	4699.1	4622.1	4334.8	4116.8	3962.9	3896.2	3850.0	4350.2	4524.6	4665.7	6055.9
45°	5371.1	5245.4	4829.9	4663.2	4581.1	4545.2	4540.0	5124.8	5230.0	5258.2	6702.3
47.5°	5961.0	5825.1	5448.0	5260.8	5199.2	5189.0	5476.3	6017.5	5935.4	5861.0	7423.1
50°	6415.0	6327.8	6055.9	5989.3	5943.1	5925.1	6597.2	6935.7	6556.1	6425.3	8056.6
52.5°	7117.8	6922.9	6615.1	6638.2	6799.8	6802.4	7733.4	7807.8	7071.7	6812.6	8654.3
55°	7679.6	7551.3	7300.0	7266.6	7692.4	7738.6	8751.7	8469.6	7359.0	7182.0	8874.9
57.5°	8341.3	8282.4	8100.2	8105.4	8551.7	8649.1	9657.2	9028.8	7597.5	7420.5	8908.2
60°	9298.1	9128.8	9033.9	9077.5	9603.3	9698.2	10534.4	9431.5	7712.9	7577.0	8826.1
62.5°	10354.9	10157.4	10054.8	10277.9	11044.8	11060.2	11201.3	9788.0	7641.1	7618.0	8297.7
65°	11627.1	11432.2	11350.1	11799.0	12709.5	12653.1	12137.5	9939.3	7412.8	7205.1	6910.1
67.5°	12894.2	12776.2	12606.9	13322.6	14456.3	14456.3	13109.7	9882.9	6815.2	5784.1	4519.5
70°	13494.4	13576.5	13845.8	14969.3	16172.3	16049.1	14069.0	9234.0	5073.5	3106.2	1777.5
72°	13094.3	13009.6	13704.7	15507.9	17229.0	17026.4	13907.4	7341.0	2931.8	1362.0	618.2
72.5°	12406.9	12486.4	13443.1	15433.5	17031.5	17198.3	13512.4	6771.6	2411.1	1085.0	466.8
75°	7607.8	7743.7	10034.2	13104.5	14841.0	14653.8	10452.3	3226.8	926.0	461.7	166.7
77.5°	2777.9	2890.7	4868.4	8246.4	10554.9	10436.9	6048.2	1146.6	502.7	343.7	84.6
80°	723.3	782.3	1654.4	3803.9	6207.3	6215.0	2531.6	459.1	341.1	282.1	51.3
82.5°	143.6	159.0	507.9	1480.0	2901.0	2862.5	800.3	246.2	256.5	230.8	35.9
85°	18.0	23.1	107.7	502.7	938.8	841.3	197.5	123.1	189.8	179.5	23.1
87.5°	2.6	2.6	25.6	115.4	197.5	192.4	41.0	38.5	84.6	110.3	12.8
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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 CATALOG NUMBER: IFLD-S-SA6B-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8	2595.8
2.5°	2624.0	2634.2	2670.2	2700.9	2736.8	2747.1	2731.7	2757.4	2721.5	2742.0	2747.1
5°	2629.1	2688.1	2754.8	2798.4	2788.1	2762.5	2742.0	2672.7	2624.0	2606.0	2644.5
7.5°	2665.0	2731.7	2803.5	2803.5	2747.1	2613.7	2485.5	2362.4	2259.8	2208.5	2252.1
10°	2711.2	2780.4	2854.8	2757.4	2547.0	2303.4	2121.2	1890.4	1733.9	1651.9	1659.5
12.5°	2772.8	2870.2	2895.9	2670.2	2321.3	1959.7	1628.8	1308.1	1159.4	1041.4	1044.0
15°	2852.3	2947.2	2870.2	2480.3	2034.0	1500.5	1102.9	797.7	679.7	618.2	618.2
17.5°	2957.4	3029.3	2862.5	2305.9	1646.7	1026.0	677.2	538.6	513.0	502.7	502.7
20°	3080.6	3134.4	2788.1	2034.0	1223.5	659.2	497.6	482.2	484.8	479.7	479.7
22.5°	3219.1	3237.0	2703.5	1718.5	828.5	487.3	464.3	466.8	469.4	464.3	466.8
25°	3365.3	3316.5	2580.4	1349.2	551.5	443.7	448.9	454.0	456.6	459.1	459.1
27.5°	3529.4	3432.0	2408.5	987.5	430.9	418.1	433.5	448.9	451.4	451.4	448.9
30°	3770.5	3608.9	2241.8	669.5	379.6	389.9	415.5	433.5	446.3	446.3	443.7
32.5°	4075.8	3793.6	2008.4	456.6	351.4	356.5	377.1	413.0	441.2	443.7	436.0
35°	4499.0	4016.8	1764.7	364.2	330.9	333.4	346.3	374.5	423.2	438.6	436.0
37.5°	4945.3	4270.7	1462.0	328.3	315.5	312.9	320.6	343.7	387.3	425.8	428.4
40°	5419.8	4537.5	1144.0	310.4	302.7	297.5	300.1	310.4	343.7	392.4	402.7
42.5°	5866.1	4778.6	859.3	292.4	289.8	284.7	284.7	287.3	305.2	338.6	343.7
45°	6348.3	4976.1	654.1	279.6	271.9	274.5	264.2	259.1	271.9	274.5	271.9
47.5°	6799.8	5173.6	523.3	264.2	256.5	256.5	243.7	233.4	233.4	210.3	207.8
50°	7223.0	5281.3	418.1	243.7	241.1	238.5	220.6	202.6	187.2	159.0	153.9
52.5°	7574.4	5276.2	323.2	218.0	225.7	218.0	189.8	164.2	141.1	115.4	110.3
55°	7679.6	5029.9	243.7	179.5	192.4	182.1	151.3	128.2	102.6	82.1	79.5
57.5°	7589.8	4655.5	184.7	138.5	148.8	138.5	115.4	94.9	71.8	56.4	51.3
60°	7289.7	4216.8	143.6	107.7	112.9	105.2	87.2	71.8	51.3	35.9	30.8
62.5°	6720.3	3667.9	110.3	84.6	82.1	82.1	66.7	53.9	35.9	20.5	18.0
65°	5514.7	2860.0	84.6	59.0	59.0	59.0	51.3	38.5	23.1	10.3	5.1
67.5°	3462.7	1664.7	69.3	46.2	43.6	43.6	35.9	25.6	12.8	2.6	0.0
70°	1303.0	610.5	53.9	35.9	33.3	33.3	25.6	15.4	7.7	0.0	0.0
72°	448.9	233.4	43.6	25.6	25.6	23.1	18.0	12.8	5.1	0.0	0.0
72.5°	369.4	187.2	41.0	25.6	23.1	23.1	18.0	12.8	5.1	0.0	0.0
75°	133.4	76.9	28.2	18.0	15.4	15.4	12.8	7.7	2.6	0.0	0.0
77.5°	66.7	48.7	23.1	15.4	12.8	7.7	7.7	5.1	2.6	0.0	0.0
80°	41.0	30.8	12.8	10.3	7.7	5.1	2.6	2.6	0.0	0.0	0.0
82.5°	28.2	18.0	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.0	7.7	5.1	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	5.1	2.6	0.0	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)