

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: P483412

Luminaire Tested: **IFLD-L-SA8A-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

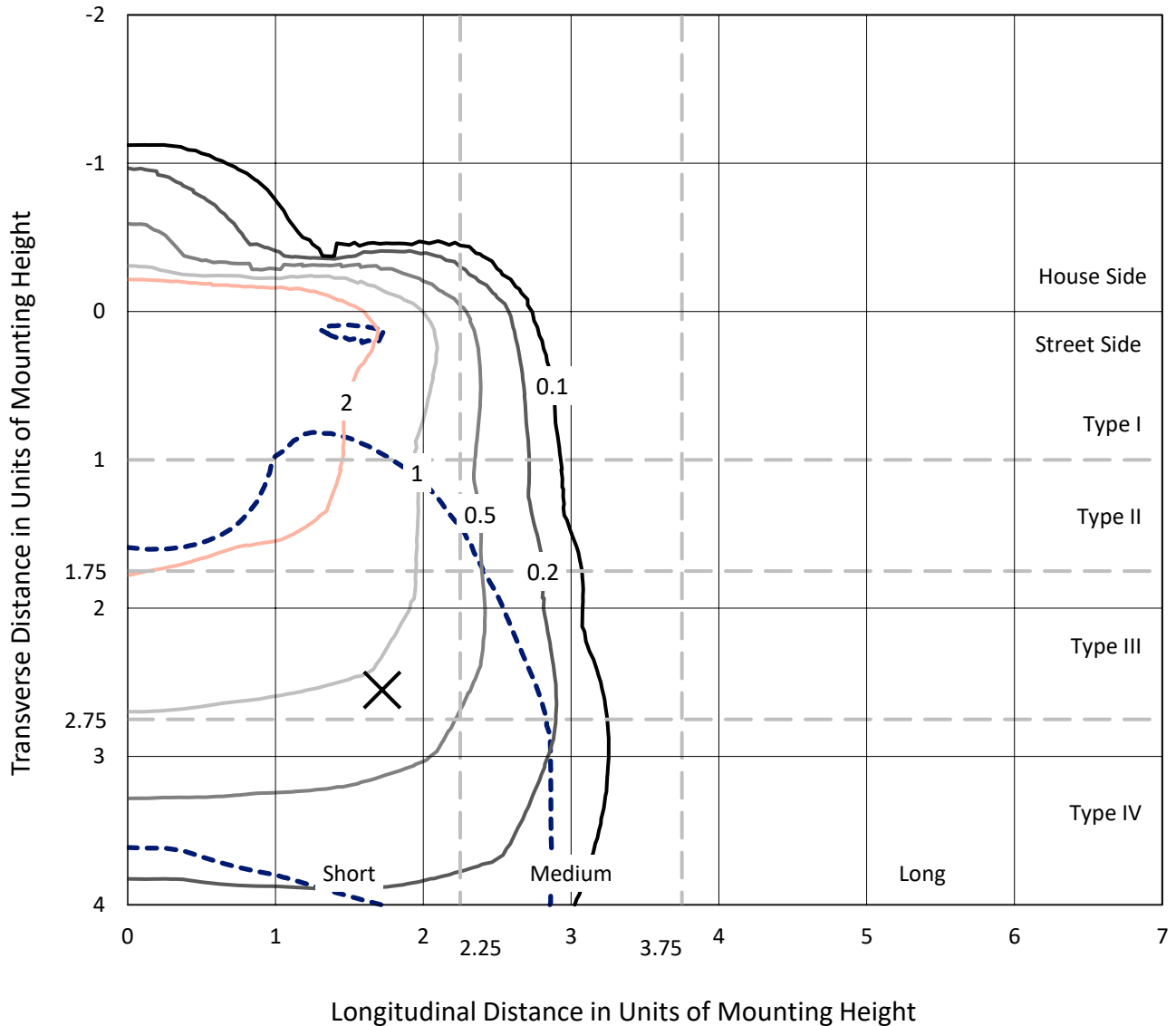
Lumens per Lamp: N/A
Luminaire Lumens: 19682.4 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

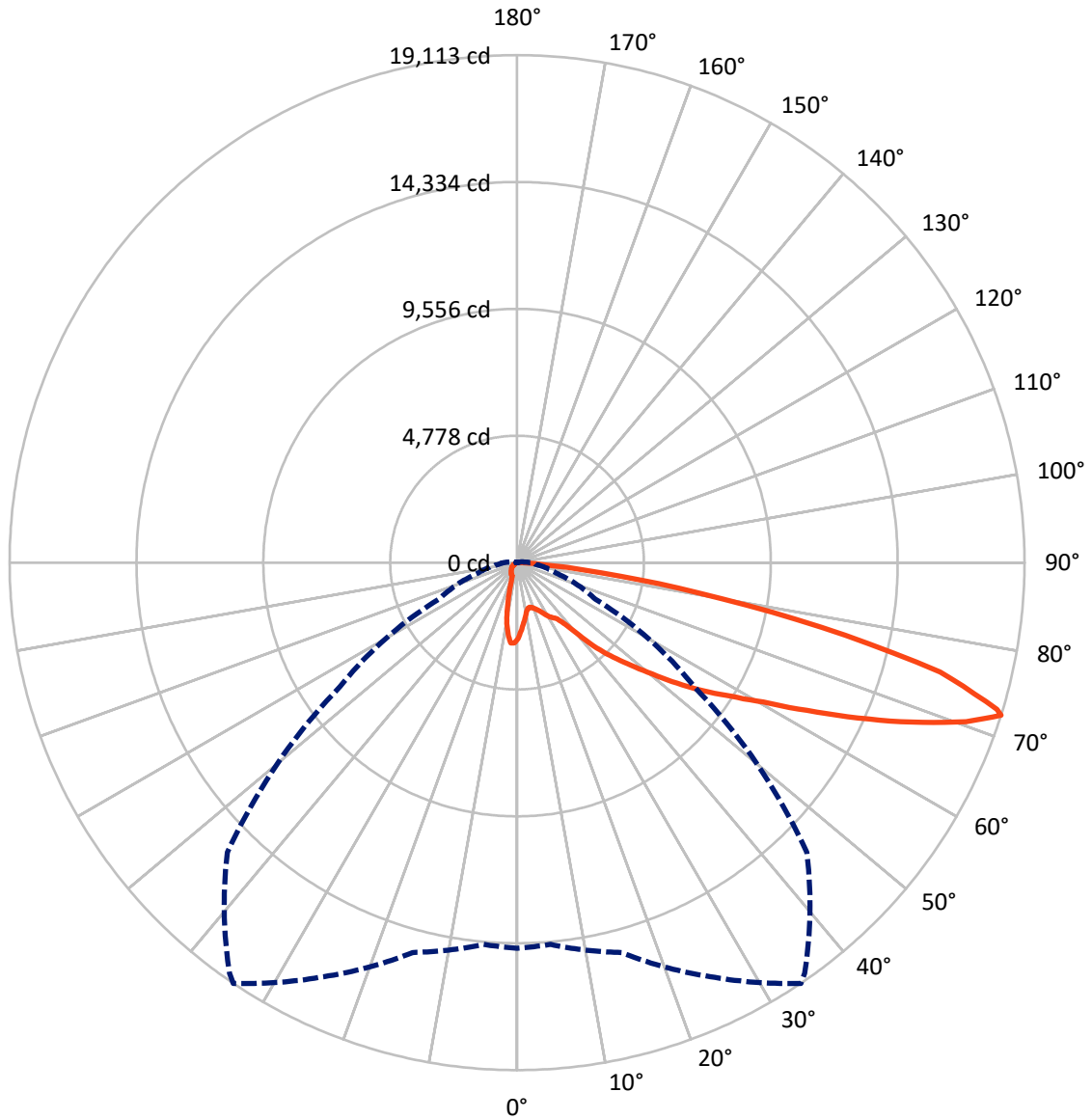
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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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	2015.0	0.0	2015.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	17667.4	0.0	17667.4
	% Fixture	89.8	0.0	89.8
Total	Lumens	19682.4	0.0	19682.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.3
10°-20°	565.9	2.9
20°-30°	854.2	4.3
30°-40°	1386.2	7.0
40°-50°	2606.7	13.2
50°-60°	4262.0	21.7
60°-70°	5665.7	28.8
70°-80°	3794.3	19.3
80°-90°	297.3	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°	19682.4	100.0
0°-180°	19682.4	100.0

Coefficient of Utilization



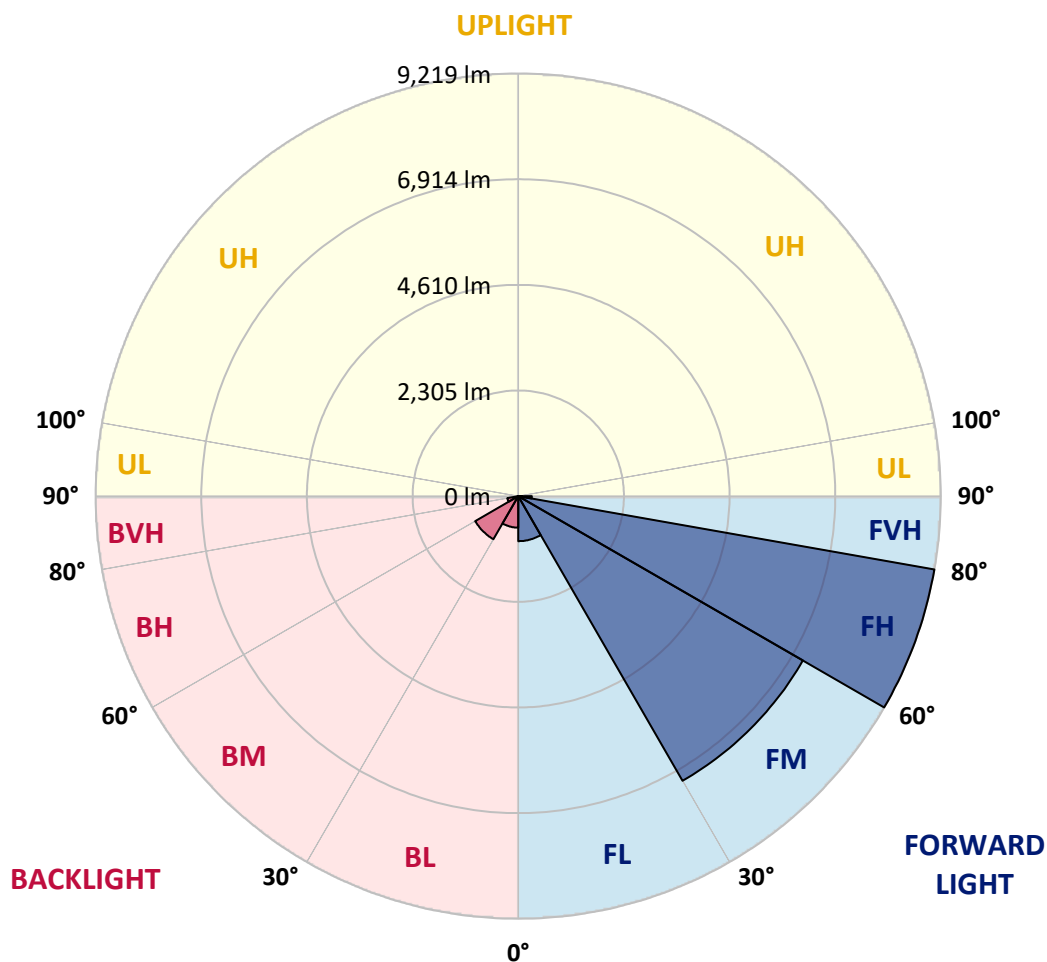
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.6	5.0			
FM (30°-60°)	7170.3	36.4			
FH (60°-80°)	9219.1	46.8			G4/12000
FVH (80°-90°)	295.5	1.5			G3/500
BL (0°-30°)	687.5	3.5	B2/1000		
BM (30°-60°)	1084.7	5.5	B2/2500		
BH (60°-80°)	240.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2546.6	2541.0	2558.0	2586.5	2614.9	2603.6	2657.6	2714.5	2754.4	2808.4	2873.9
5°	2225.1	2239.3	2256.4	2313.3	2350.3	2358.8	2458.4	2532.4	2654.8	2780.0	2896.6
7.5°	1932.0	1949.1	1983.3	2045.9	2122.7	2142.6	2242.2	2390.1	2549.5	2714.5	2905.2
10°	1718.6	1735.7	1772.7	1812.5	1915.0	1915.0	2051.5	2256.4	2464.1	2657.6	2908.0
12.5°	1673.1	1681.6	1678.8	1710.1	1775.5	1789.8	1923.5	2148.3	2390.1	2637.7	2953.5
15°	1727.2	1732.9	1704.4	1687.3	1744.2	1758.5	1883.7	2082.8	2341.8	2649.1	3027.5
17.5°	1835.3	1815.4	1758.5	1732.9	1781.2	1789.8	1906.4	2080.0	2336.1	2680.4	3112.9
20°	1897.9	1920.7	1821.1	1772.7	1841.0	1852.4	1977.6	2125.5	2364.5	2734.4	3232.4
22.5°	2008.9	2020.2	1886.5	1855.2	1920.7	1920.7	2062.9	2216.6	2432.8	2822.6	3374.7
25°	2165.4	2151.1	1994.6	1963.3	2025.9	2051.5	2193.8	2361.7	2538.1	2905.2	3505.5
27.5°	2287.7	2296.2	2168.2	2085.7	2191.0	2208.0	2361.7	2518.2	2617.8	2973.5	3664.9
30°	2469.8	2452.7	2316.2	2222.3	2353.2	2356.0	2504.0	2666.2	2771.4	3095.8	3903.9
32.5°	2686.1	2651.9	2495.4	2361.7	2467.0	2492.6	2643.4	2879.6	3010.4	3326.3	4273.8
35°	3144.2	3061.7	2805.6	2597.9	2606.4	2617.8	2851.1	3189.7	3340.5	3619.4	4768.9
37.5°	3812.9	3778.7	3488.5	3093.0	2942.2	2908.0	3169.8	3599.4	3787.2	4006.3	5412.0
40°	4475.8	4427.5	4157.1	3858.4	3585.2	3516.9	3647.8	4142.9	4313.6	4544.1	6072.1
42.5°	5212.8	5127.4	4808.7	4566.9	4396.2	4322.2	4271.0	4825.8	5019.3	5175.8	6718.0
45°	5958.3	5818.9	5357.9	5173.0	5081.9	5042.1	5036.4	5685.1	5801.8	5833.1	7435.1
47.5°	6612.7	6461.9	6043.7	5835.9	5767.7	5756.3	6075.0	6675.3	6584.3	6501.8	8234.6
50°	7116.4	7019.6	6718.0	6644.0	6592.8	6572.9	7318.4	7694.0	7272.9	7127.8	8937.4
52.5°	7896.0	7679.8	7338.3	7363.9	7543.2	7546.0	8578.9	8661.4	7844.8	7557.4	9600.4
55°	8519.2	8376.9	8098.0	8061.1	8533.4	8584.6	9708.5	9395.6	8163.5	7967.2	9845.1
57.5°	9253.3	9187.8	8985.8	8991.5	9486.6	9594.7	10713.0	10015.9	8428.1	8231.8	9882.1
60°	10314.6	10126.8	10021.5	10069.9	10653.2	10758.5	11686.1	10462.6	8556.2	8405.3	9791.1
62.5°	11486.9	11267.8	11154.0	11401.6	12252.3	12269.4	12425.9	10858.1	8476.5	8450.9	9204.9
65°	12898.3	12682.0	12591.0	13088.9	14099.0	14036.4	13464.5	11026.0	8223.2	7992.8	7665.5
67.5°	14303.9	14173.0	13985.2	14779.1	16036.7	16036.7	14542.9	10963.4	7560.3	6416.4	5013.6
70°	14969.7	15060.8	15359.5	16605.8	17940.3	17803.7	15607.1	10243.5	5628.2	3445.8	1971.9
72°	14525.8	14431.9	15203.0	17203.4	19112.6	18887.9	15427.8	8143.6	3252.3	1510.9	685.7
72.5°	13763.3	13851.5	14912.8	17120.8	18893.5	19078.5	14989.6	7511.9	2674.7	1203.6	517.9
75°	8439.5	8590.3	11131.3	14537.2	16463.6	16255.8	11595.1	3579.5	1027.2	512.2	185.0
77.5°	3081.6	3206.8	5400.6	9148.0	11708.9	11578.0	6709.5	1271.9	557.7	381.3	93.9
80°	802.4	867.9	1835.3	4219.7	6885.9	6894.4	2808.4	509.3	378.4	313.0	56.9
82.5°	159.3	176.4	563.4	1641.8	3218.2	3175.5	887.8	273.2	284.5	256.1	39.8
85°	19.9	25.6	119.5	557.7	1041.4	933.3	219.1	136.6	210.6	199.2	25.6
87.5°	2.8	2.8	28.5	128.0	219.1	213.4	45.5	42.7	93.9	122.4	14.2
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°	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6	2879.6
2.5°	2910.9	2922.2	2962.1	2996.2	3036.1	3047.4	3030.4	3058.8	3019.0	3041.7	3047.4
5°	2916.5	2982.0	3056.0	3104.3	3093.0	3064.5	3041.7	2964.9	2910.9	2890.9	2933.6
7.5°	2956.4	3030.4	3110.0	3110.0	3047.4	2899.5	2757.2	2620.6	2506.8	2449.9	2498.3
10°	3007.6	3084.4	3166.9	3058.8	2825.5	2555.2	2353.2	2097.1	1923.5	1832.4	1841.0
12.5°	3075.9	3184.0	3212.5	2962.1	2575.1	2173.9	1806.8	1451.2	1286.1	1155.2	1158.1
15°	3164.1	3269.4	3184.0	2751.5	2256.4	1664.6	1223.5	884.9	754.0	685.7	685.7
17.5°	3280.8	3360.4	3175.5	2558.0	1826.8	1138.2	751.2	597.5	569.1	557.7	557.7
20°	3417.3	3477.1	3093.0	2256.4	1357.3	731.3	552.0	534.9	537.8	532.1	532.1
22.5°	3571.0	3590.9	2999.1	1906.4	919.1	540.6	515.0	517.9	520.7	515.0	517.9
25°	3733.2	3679.1	2862.5	1496.7	611.8	492.3	497.9	503.6	506.5	509.3	509.3
27.5°	3915.3	3807.2	2671.8	1095.5	478.0	463.8	480.9	497.9	500.8	500.8	497.9
30°	4182.8	4003.5	2486.9	742.7	421.1	432.5	461.0	480.9	495.1	495.1	492.3
32.5°	4521.4	4208.4	2228.0	506.5	389.8	395.5	418.3	458.1	489.4	492.3	483.7
35°	4990.9	4455.9	1957.6	404.0	367.1	369.9	384.1	415.4	469.5	486.6	483.7
37.5°	5486.0	4737.6	1621.9	364.2	350.0	347.1	355.7	381.3	429.7	472.3	475.2
40°	6012.4	5033.5	1269.1	344.3	335.8	330.1	332.9	344.3	381.3	435.3	446.7
42.5°	6507.5	5301.0	953.2	324.4	321.5	315.8	315.8	318.7	338.6	375.6	381.3
45°	7042.4	5520.1	725.6	310.2	301.6	304.5	293.1	287.4	301.6	304.5	301.6
47.5°	7543.2	5739.2	580.5	293.1	284.5	284.5	270.3	258.9	258.9	233.3	230.5
50°	8012.7	5858.7	463.8	270.3	267.5	264.6	244.7	224.8	207.7	176.4	170.7
52.5°	8402.5	5853.0	358.5	241.9	250.4	241.9	210.6	182.1	156.5	128.0	122.4
55°	8519.2	5579.9	270.3	199.2	213.4	202.0	167.9	142.3	113.8	91.1	88.2
57.5°	8419.6	5164.4	204.9	153.7	165.0	153.7	128.0	105.3	79.7	62.6	56.9
60°	8086.7	4677.9	159.3	119.5	125.2	116.7	96.7	79.7	56.9	39.8	34.1
62.5°	7455.0	4068.9	122.4	93.9	91.1	91.1	74.0	59.8	39.8	22.8	19.9
65°	6117.6	3172.6	93.9	65.4	65.4	65.4	56.9	42.7	25.6	11.4	5.7
67.5°	3841.3	1846.7	76.8	51.2	48.4	48.4	39.8	28.5	14.2	2.8	0.0
70°	1445.5	677.2	59.8	39.8	37.0	37.0	28.5	17.1	8.5	0.0	0.0
72°	497.9	258.9	48.4	28.5	28.5	25.6	19.9	14.2	5.7	0.0	0.0
72.5°	409.7	207.7	45.5	28.5	25.6	25.6	19.9	14.2	5.7	0.0	0.0
75°	148.0	85.4	31.3	19.9	17.1	17.1	14.2	8.5	2.8	0.0	0.0
77.5°	74.0	54.1	25.6	17.1	14.2	8.5	8.5	5.7	2.8	0.0	0.0
80°	45.5	34.1	14.2	11.4	8.5	5.7	2.8	2.8	0.0	0.0	0.0
82.5°	31.3	19.9	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.9	8.5	5.7	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	5.7	2.8	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)