

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: P483241

Luminaire Tested: **IFLD-S-SA6A-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483241
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

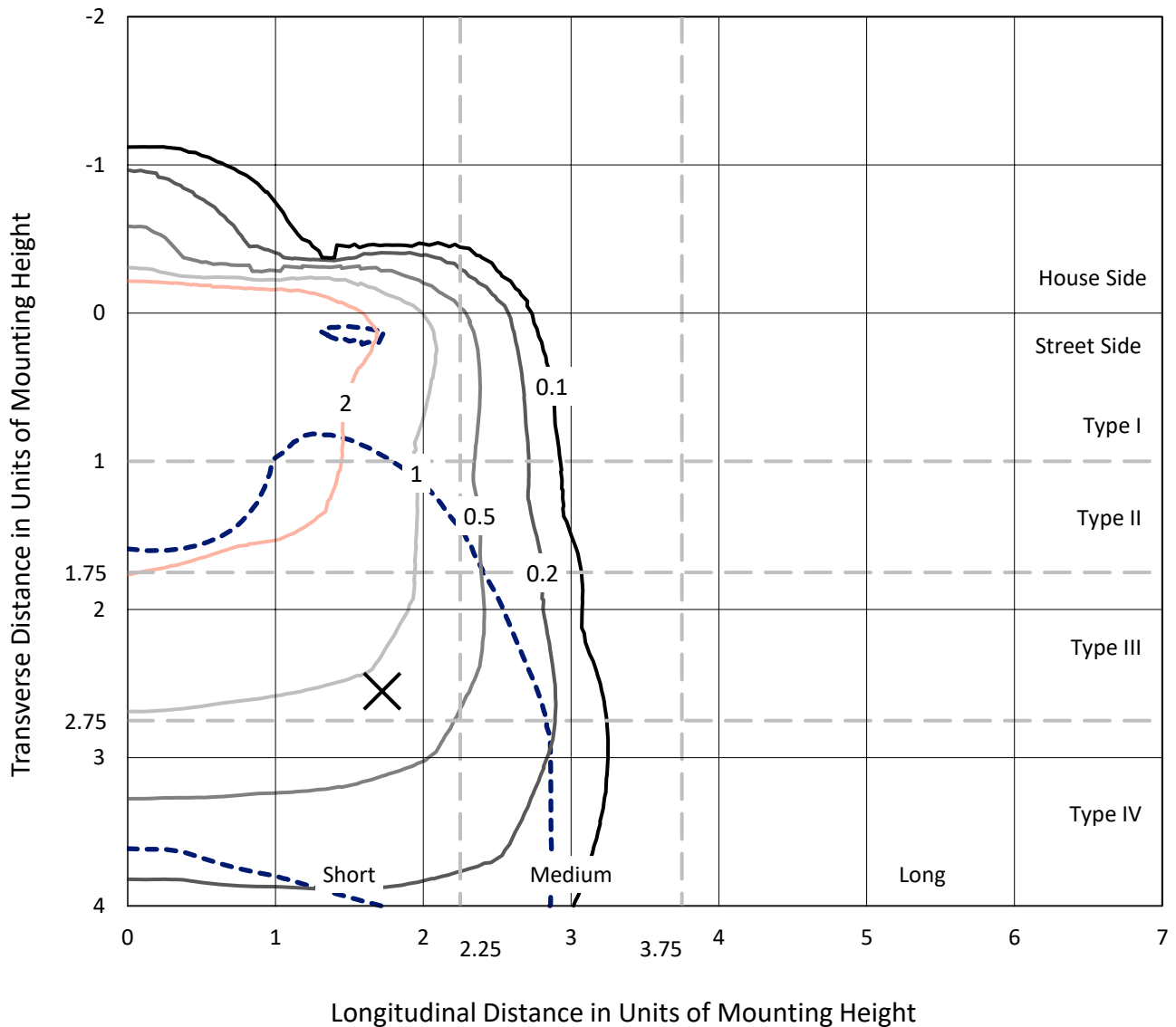
Lumens per Lamp: N/A
Luminaire Lumens: 19516.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

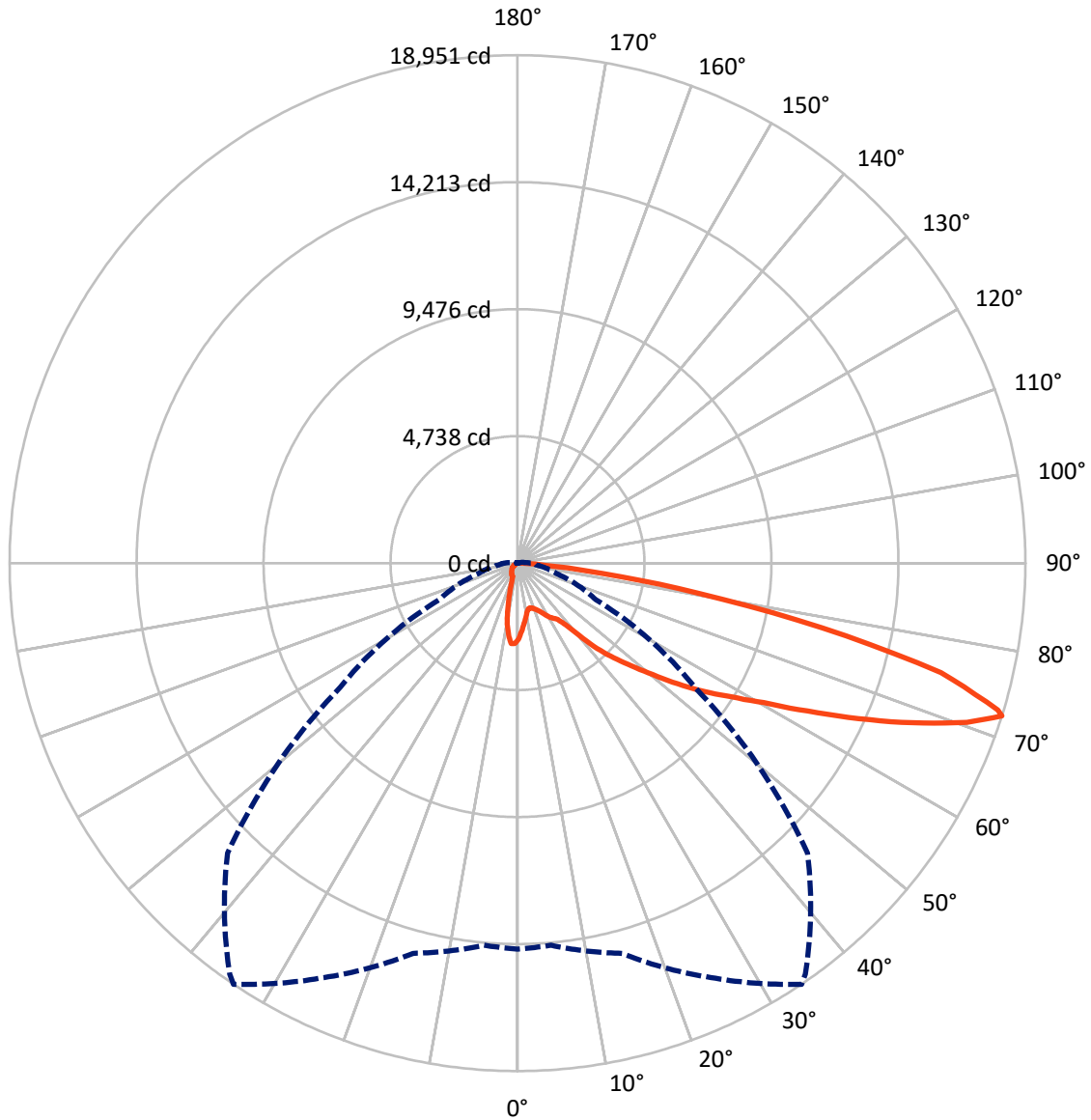
× Max cd
 - - - 1/2 Max cd



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	1998.0	0.0	1998.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	17518.1	0.0	17518.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	19516.1	0.0	19516.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.3
10°-20°	561.1	2.9
20°-30°	847.0	4.3
30°-40°	1374.5	7.0
40°-50°	2584.7	13.2
50°-60°	4226.0	21.7
60°-70°	5617.9	28.8
70°-80°	3762.2	19.3
80°-90°	294.8	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°	19516.1	100.0
0°-180°	19516.1	100.0

Coefficient of Utilization

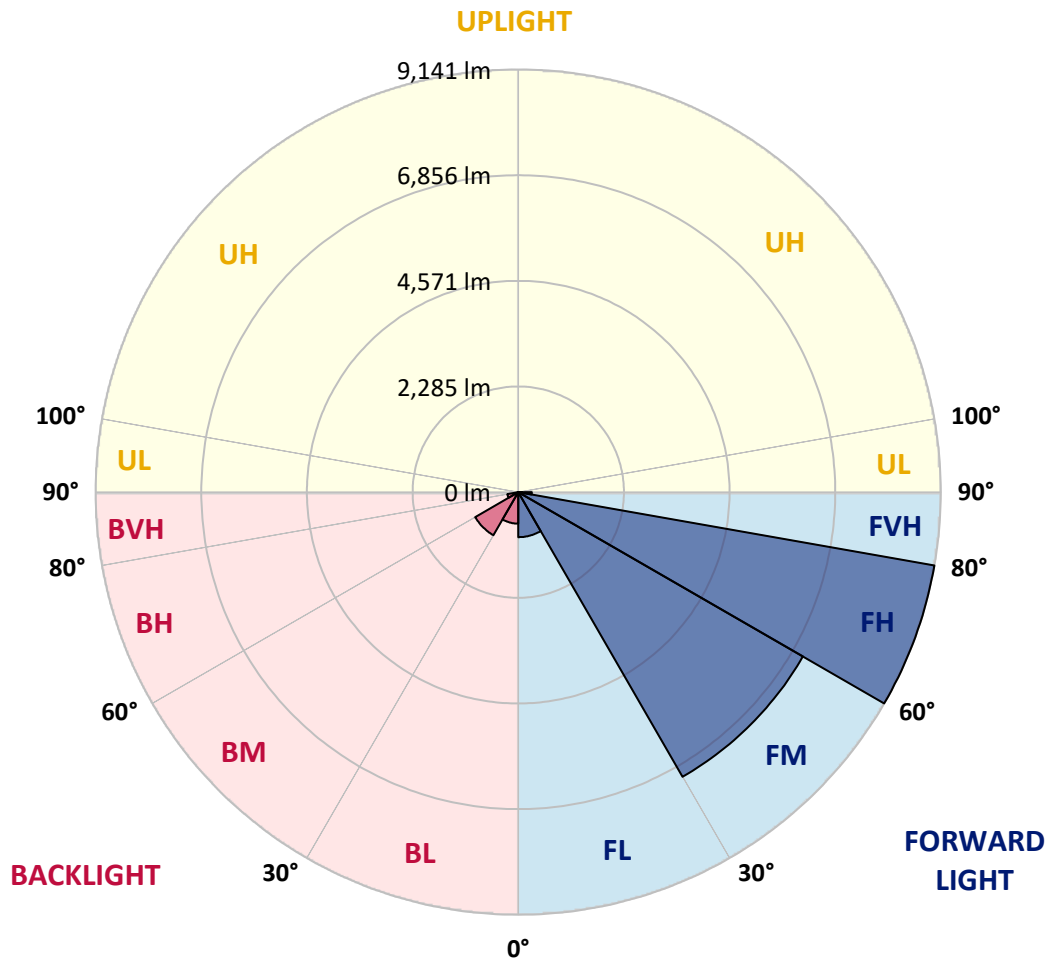


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.3	5.0			
FM (30°-60°)	7109.7	36.4			
FH (60°-80°)	9141.2	46.8			G4/12000
FVH (80°-90°)	293.0	1.5			G3/500
BL (0°-30°)	681.7	3.5	B2/1000		
BM (30°-60°)	1075.5	5.5	B2/2500		
BH (60°-80°)	238.9	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°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2525.1	2519.5	2536.4	2564.6	2592.8	2581.5	2635.2	2691.6	2731.1	2784.7	2849.6
5°	2206.3	2220.4	2237.3	2293.8	2330.4	2338.9	2437.7	2511.0	2632.3	2756.5	2872.1
7.5°	1915.7	1932.6	1966.5	2028.6	2104.7	2124.5	2223.2	2369.9	2527.9	2691.6	2880.6
10°	1704.1	1721.0	1757.7	1797.2	1898.8	1898.8	2034.2	2237.3	2443.3	2635.2	2883.4
12.5°	1659.0	1667.4	1664.6	1695.6	1760.5	1774.6	1907.2	2130.1	2369.9	2615.4	2928.6
15°	1712.6	1718.2	1690.0	1673.1	1729.5	1743.6	1867.7	2065.2	2322.0	2626.7	3001.9
17.5°	1819.8	1800.0	1743.6	1718.2	1766.2	1774.6	1890.3	2062.4	2316.3	2657.7	3086.6
20°	1881.8	1904.4	1805.7	1757.7	1825.4	1836.7	1960.8	2107.6	2344.6	2711.3	3205.1
22.5°	1991.9	2003.2	1870.6	1839.5	1904.4	1904.4	2045.5	2197.8	2412.3	2798.8	3346.1
25°	2147.1	2133.0	1977.8	1946.7	2008.8	2034.2	2175.3	2341.7	2516.7	2880.6	3475.9
27.5°	2268.4	2276.8	2149.9	2068.1	2172.4	2189.4	2341.7	2496.9	2595.7	2948.3	3633.9
30°	2448.9	2432.0	2296.6	2203.5	2333.3	2336.1	2482.8	2643.6	2748.0	3069.6	3870.9
32.5°	2663.4	2629.5	2474.3	2341.7	2446.1	2471.5	2621.0	2855.2	2985.0	3298.2	4237.7
35°	3117.6	3035.8	2781.9	2575.9	2584.4	2595.7	2827.0	3162.7	3312.3	3588.8	4728.6
37.5°	3780.6	3746.8	3459.0	3066.8	2917.3	2883.4	3143.0	3569.0	3755.2	3972.5	5366.2
40°	4438.0	4390.0	4122.0	3825.8	3554.9	3487.2	3617.0	4107.9	4277.2	4505.7	6020.8
42.5°	5168.7	5084.1	4768.1	4528.3	4359.0	4285.7	4234.9	4785.0	4976.9	5132.1	6661.2
45°	5907.9	5769.7	5312.6	5129.2	5039.0	4999.5	4993.8	5637.1	5752.8	5783.8	7372.2
47.5°	6556.8	6407.3	5992.6	5786.6	5718.9	5707.6	6023.6	6618.9	6528.6	6446.8	8165.0
50°	7056.2	6960.3	6661.2	6587.9	6537.1	6517.3	7256.5	7629.0	7211.4	7067.5	8861.9
52.5°	7829.3	7614.9	7276.3	7301.7	7479.4	7482.3	8506.4	8588.2	7778.5	7493.5	9519.3
55°	8447.2	8306.1	8029.6	7992.9	8461.3	8512.1	9626.5	9316.1	8094.5	7899.8	9761.9
57.5°	9175.1	9110.2	8909.9	8915.5	9406.4	9513.6	10622.4	9931.2	8356.9	8162.2	9798.6
60°	10227.4	10041.2	9936.8	9984.8	10563.2	10667.6	11587.3	10374.2	8483.8	8334.3	9708.3
62.5°	11389.8	11172.6	11059.7	11305.2	12148.8	12165.7	12320.9	10766.3	8404.8	8379.4	9127.1
65°	12789.2	12574.8	12484.5	12978.3	13979.9	13917.8	13350.7	10932.8	8153.7	7925.2	7600.8
67.5°	14183.0	14053.2	13867.0	14654.2	15901.2	15901.2	14420.0	10870.7	7496.4	6362.2	4971.2
70°	14843.2	14933.5	15229.7	16465.5	17788.7	17653.3	15475.2	10156.9	5580.7	3416.7	1955.2
72°	14403.1	14310.0	15074.5	17058.0	18951.1	18728.2	15297.4	8074.7	3224.8	1498.1	679.9
72.5°	13646.9	13734.4	14786.8	16976.1	18733.9	18917.2	14862.9	7448.4	2652.1	1193.4	513.5
75°	8368.2	8517.7	11037.2	14414.3	16324.4	16118.4	11497.1	3549.3	1018.5	507.8	183.4
77.5°	3055.5	3179.7	5354.9	9070.7	11609.9	11480.1	6652.8	1261.1	553.0	378.1	93.1
80°	795.6	860.5	1819.8	4184.1	6827.7	6836.2	2784.7	505.0	375.2	310.3	56.4
82.5°	158.0	174.9	558.6	1627.9	3191.0	3148.6	880.3	270.9	282.1	253.9	39.5
85°	19.7	25.4	118.5	553.0	1032.6	925.4	217.2	135.4	208.8	197.5	25.4
87.5°	2.8	2.8	28.2	127.0	217.2	211.6	45.1	42.3	93.1	121.3	14.1
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°	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2	2855.2
2.5°	2886.3	2897.5	2937.0	2970.9	3010.4	3021.7	3004.8	3033.0	2993.5	3016.0	3021.7
5°	2891.9	2956.8	3030.1	3078.1	3066.8	3038.6	3016.0	2939.9	2886.3	2866.5	2908.8
7.5°	2931.4	3004.8	3083.8	3083.8	3021.7	2875.0	2733.9	2598.5	2485.6	2429.2	2477.2
10°	2982.2	3058.4	3140.2	3033.0	2801.6	2533.6	2333.3	2079.3	1907.2	1817.0	1825.4
12.5°	3049.9	3157.1	3185.3	2937.0	2553.3	2155.5	1791.6	1438.9	1275.3	1145.5	1148.3
15°	3137.4	3241.7	3157.1	2728.3	2237.3	1650.5	1213.2	877.4	747.7	679.9	679.9
17.5°	3253.0	3332.0	3148.6	2536.4	1811.3	1128.5	744.8	592.5	564.3	553.0	553.0
20°	3388.5	3447.7	3066.8	2237.3	1345.8	725.1	547.3	530.4	533.2	527.6	527.6
22.5°	3540.8	3560.6	2973.7	1890.3	911.3	536.1	510.7	513.5	516.3	510.7	513.5
25°	3701.6	3648.0	2838.3	1484.0	606.6	488.1	493.7	499.4	502.2	505.0	505.0
27.5°	3882.2	3775.0	2649.3	1086.2	474.0	459.9	476.8	493.7	496.6	496.6	493.7
30°	4147.4	3969.7	2465.9	736.4	417.6	428.8	457.1	476.8	490.9	490.9	488.1
32.5°	4483.1	4172.8	2209.1	502.2	386.5	392.2	414.7	454.2	485.3	488.1	479.6
35°	4948.7	4418.3	1941.1	400.6	364.0	366.8	380.9	411.9	465.5	482.5	479.6
37.5°	5439.6	4697.6	1608.2	361.1	347.0	344.2	352.7	378.1	426.0	468.3	471.2
40°	5961.5	4991.0	1258.3	341.4	332.9	327.3	330.1	341.4	378.1	431.7	443.0
42.5°	6452.5	5256.2	945.2	321.6	318.8	313.2	313.2	316.0	335.7	372.4	378.1
45°	6982.9	5473.4	719.4	307.5	299.1	301.9	290.6	285.0	299.1	301.9	299.1
47.5°	7479.4	5690.7	575.6	290.6	282.1	282.1	268.0	256.7	256.7	231.4	228.5
50°	7945.0	5809.2	459.9	268.0	265.2	262.4	242.6	222.9	206.0	174.9	169.3
52.5°	8331.5	5803.5	355.5	239.8	248.3	239.8	208.8	180.6	155.2	127.0	121.3
55°	8447.2	5532.7	268.0	197.5	211.6	200.3	166.5	141.1	112.9	90.3	87.5
57.5°	8348.4	5120.8	203.1	152.4	163.6	152.4	127.0	104.4	79.0	62.1	56.4
60°	8018.3	4638.3	158.0	118.5	124.1	115.7	95.9	79.0	56.4	39.5	33.9
62.5°	7392.0	4034.5	121.3	93.1	90.3	90.3	73.4	59.2	39.5	22.6	19.7
65°	6065.9	3145.8	93.1	64.9	64.9	64.9	56.4	42.3	25.4	11.3	5.6
67.5°	3808.8	1831.1	76.2	50.8	48.0	48.0	39.5	28.2	14.1	2.8	0.0
70°	1433.3	671.5	59.2	39.5	36.7	36.7	28.2	16.9	8.5	0.0	0.0
72°	493.7	256.7	48.0	28.2	28.2	25.4	19.7	14.1	5.6	0.0	0.0
72.5°	406.3	206.0	45.1	28.2	25.4	25.4	19.7	14.1	5.6	0.0	0.0
75°	146.7	84.6	31.0	19.7	16.9	16.9	14.1	8.5	2.8	0.0	0.0
77.5°	73.4	53.6	25.4	16.9	14.1	8.5	8.5	5.6	2.8	0.0	0.0
80°	45.1	33.9	14.1	11.3	8.5	5.6	2.8	2.8	0.0	0.0	0.0
82.5°	31.0	19.7	8.5	8.5	5.6	2.8	0.0	0.0	0.0	0.0	0.0
85°	19.7	8.5	5.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	5.6	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)