

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: P483280

Luminaire Tested: **IFLD-S-SA6A-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483280
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

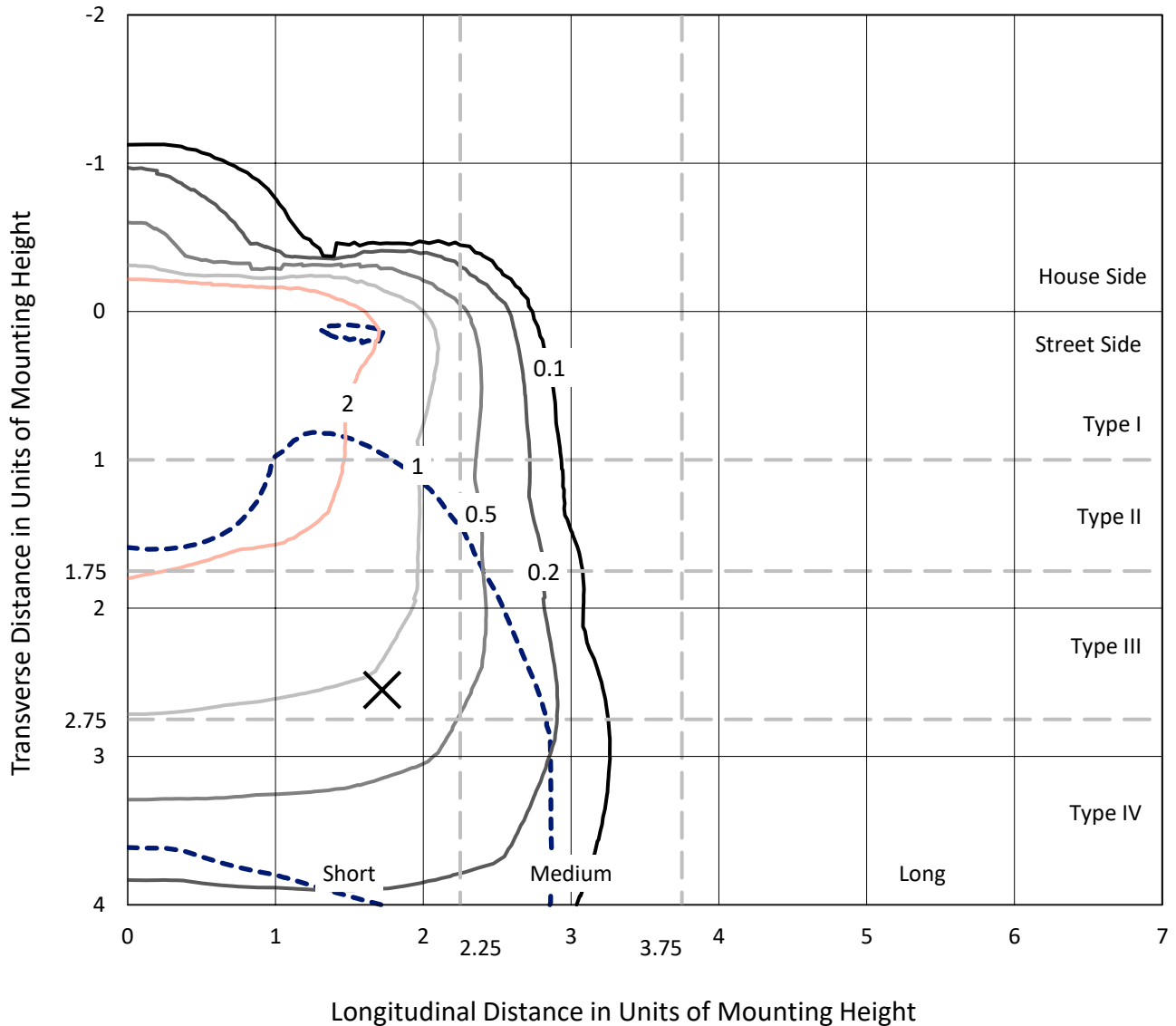
Lumens per Lamp: N/A
Luminaire Lumens: 19963 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

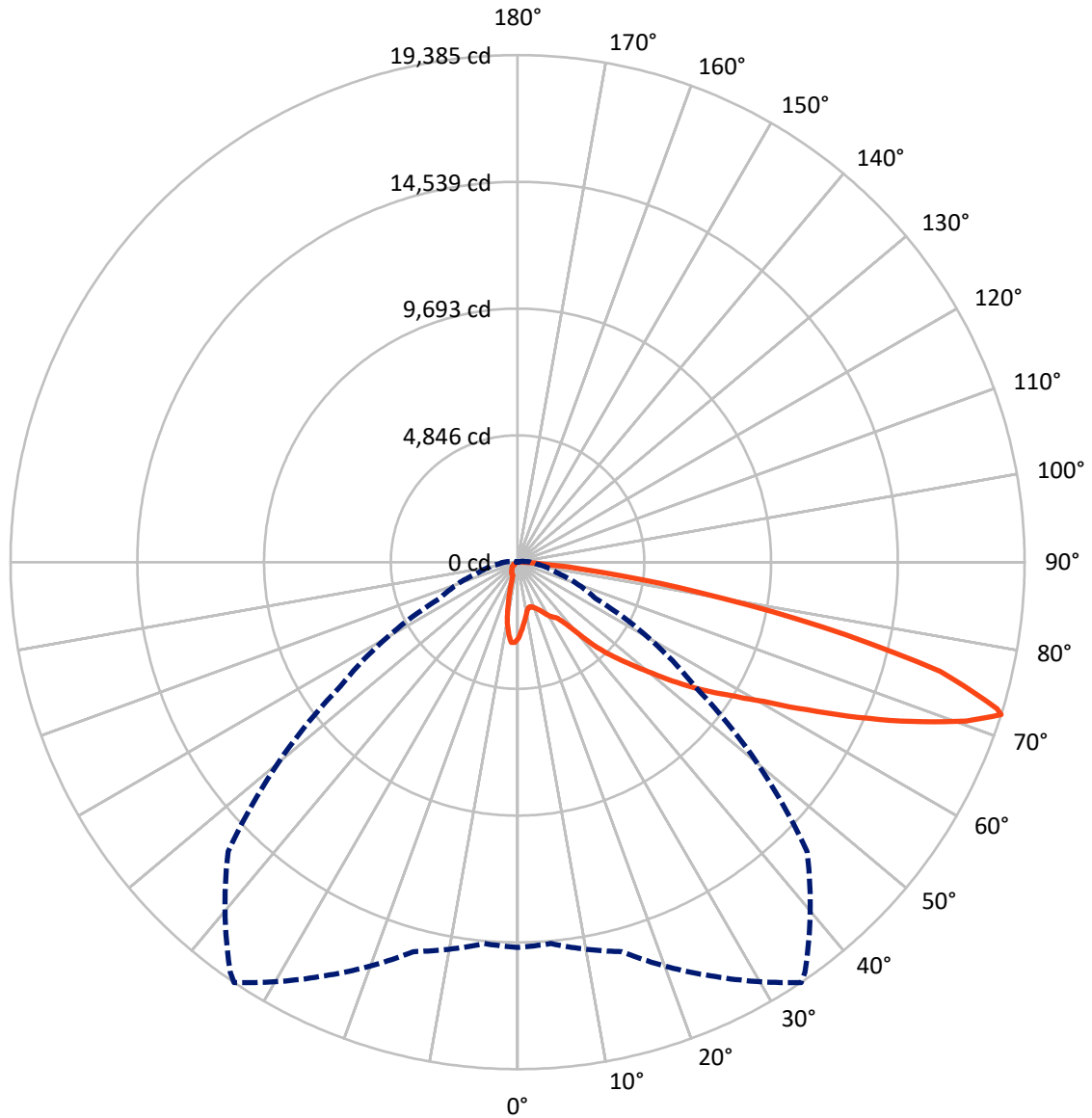
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2043.7	0.0	2043.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	17919.3	0.0	17919.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	19963.0	0.0	19963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.3
10°-20°	574.0	2.9
20°-30°	866.4	4.3
30°-40°	1406.0	7.0
40°-50°	2643.9	13.2
50°-60°	4322.8	21.7
60°-70°	5746.5	28.8
70°-80°	3848.4	19.3
80°-90°	301.6	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°	19963.0	100.0
0°-180°	19963.0	100.0

Coefficient of Utilization



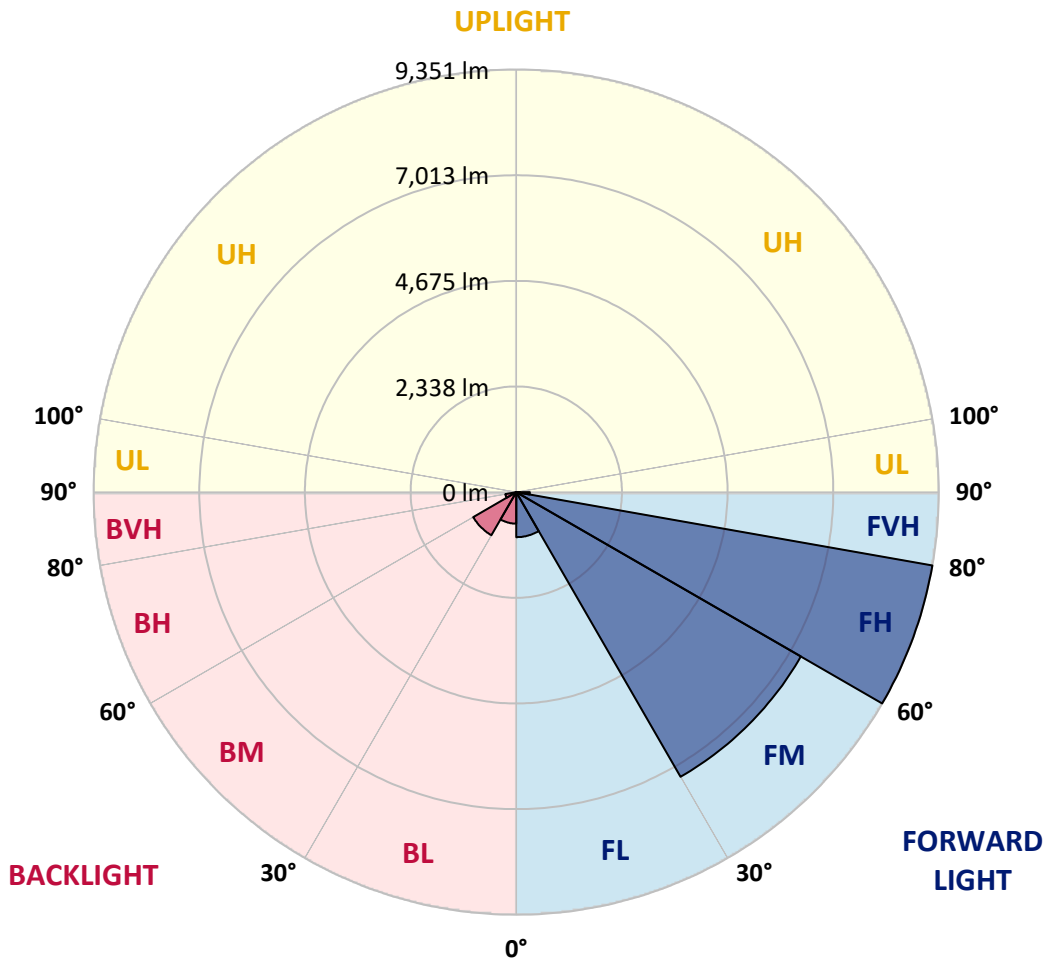
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.6	5.0			
FM (30°-60°)	7272.5	36.4			
FH (60°-80°)	9350.5	46.8			G4/12000
FVH (80°-90°)	299.7	1.5			G3/500
BL (0°-30°)	697.3	3.5	B2/1000		
BM (30°-60°)	1100.1	5.5	B2/2500		
BH (60°-80°)	244.4	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°	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6
2.5°	2582.9	2577.2	2594.5	2623.3	2652.2	2640.7	2695.5	2753.2	2793.6	2848.5	2914.8
5°	2256.8	2271.3	2288.6	2346.3	2383.8	2392.5	2493.5	2568.5	2692.6	2819.6	2937.9
7.5°	1959.6	1976.9	2011.5	2075.0	2152.9	2173.1	2274.1	2424.2	2585.8	2753.2	2946.6
10°	1743.1	1760.4	1798.0	1838.4	1942.3	1942.3	2080.8	2288.6	2499.3	2695.5	2949.5
12.5°	1697.0	1705.6	1702.7	1734.5	1800.8	1815.3	1950.9	2178.9	2424.2	2675.3	2995.6
15°	1751.8	1757.6	1728.7	1711.4	1769.1	1783.5	1910.5	2112.5	2375.2	2686.8	3070.7
17.5°	1861.5	1841.3	1783.5	1757.6	1806.6	1815.3	1933.6	2109.6	2369.4	2718.6	3157.3
20°	1924.9	1948.0	1847.0	1798.0	1867.2	1878.8	2005.8	2155.8	2398.2	2773.4	3278.5
22.5°	2037.5	2049.0	1913.4	1881.7	1948.0	1948.0	2092.3	2248.2	2467.5	2862.9	3422.8
25°	2196.2	2181.8	2023.1	1991.3	2054.8	2080.8	2225.1	2395.4	2574.3	2946.6	3555.5
27.5°	2320.3	2329.0	2199.1	2115.4	2222.2	2239.5	2395.4	2554.1	2655.1	3015.8	3717.1
30°	2505.0	2487.7	2349.2	2253.9	2386.7	2389.6	2539.7	2704.2	2810.9	3139.9	3959.6
32.5°	2724.4	2689.7	2531.0	2395.4	2502.1	2528.1	2681.1	2920.6	3053.4	3373.7	4334.7
35°	3189.0	3105.3	2845.6	2634.9	2643.6	2655.1	2891.7	3235.2	3388.1	3671.0	4836.9
37.5°	3867.2	3832.6	3538.2	3137.1	2984.1	2949.5	3215.0	3650.8	3841.2	4063.4	5489.1
40°	4539.6	4490.6	4216.4	3913.4	3636.3	3567.1	3699.8	4202.0	4375.1	4608.9	6158.7
42.5°	5287.1	5200.5	4877.3	4632.0	4458.8	4383.8	4331.8	4894.6	5090.9	5249.6	6813.8
45°	6043.2	5901.8	5434.3	5246.7	5154.3	5113.9	5108.2	5766.2	5884.5	5916.2	7541.0
47.5°	6707.0	6554.0	6129.8	5919.1	5849.9	5838.3	6161.6	6770.5	6678.1	6594.4	8352.0
50°	7217.8	7119.7	6813.8	6738.7	6686.8	6666.6	7422.7	7803.7	7376.5	7229.4	9064.8
52.5°	8008.6	7789.2	7442.9	7468.9	7650.7	7653.6	8701.2	8784.9	7956.6	7665.1	9737.3
55°	8640.6	8496.3	8213.5	8176.0	8655.0	8707.0	9846.9	9529.5	8279.9	8080.7	9985.5
57.5°	9385.2	9318.8	9113.9	9119.7	9621.8	9731.5	10865.7	10158.6	8548.3	8349.1	10023.0
60°	10461.7	10271.2	10164.4	10213.5	10805.1	10911.9	11852.7	10611.7	8678.1	8525.2	9930.6
62.5°	11650.7	11428.5	11313.0	11564.1	12427.0	12444.3	12603.0	11012.9	8597.3	8571.3	9336.1
65°	13082.1	12862.8	12770.4	13275.5	14300.0	14236.5	13656.4	11183.1	8340.5	8106.7	7774.8
67.5°	14507.8	14375.0	14184.6	14989.7	16265.3	16265.3	14750.2	11119.7	7668.0	6507.9	5085.1
70°	15183.1	15275.5	15578.5	16842.5	18196.1	18057.5	15829.6	10389.5	5708.5	3494.9	2000.0
72°	14732.9	14637.7	15419.8	17448.6	19385.1	19157.1	15647.7	8259.7	3298.7	1532.5	695.5
72.5°	13959.4	14048.9	15125.4	17364.9	19162.9	19350.4	15203.3	7619.0	2712.8	1220.8	525.2
75°	8559.8	8712.8	11289.9	14744.4	16698.2	16487.6	11760.3	3630.6	1041.8	519.5	187.6
77.5°	3125.5	3252.5	5477.6	9278.4	11875.8	11743.0	6805.1	1290.0	565.7	386.7	95.2
80°	813.8	880.2	1861.5	4279.9	6984.1	6992.7	2848.5	516.6	383.8	317.5	57.7
82.5°	161.6	178.9	571.4	1665.2	3264.0	3220.7	900.4	277.1	288.6	259.7	40.4
85°	20.2	26.0	121.2	565.7	1056.3	946.6	222.2	138.5	213.6	202.0	26.0
87.5°	2.9	2.9	28.9	129.9	222.2	216.4	46.2	43.3	95.2	124.1	14.4
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°	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6	2920.6
2.5°	2952.3	2963.9	3004.3	3038.9	3079.3	3090.9	3073.6	3102.4	3062.0	3085.1	3090.9
5°	2958.1	3024.5	3099.5	3148.6	3137.1	3108.2	3085.1	3007.2	2952.3	2932.1	2975.4
7.5°	2998.5	3073.6	3154.4	3154.4	3090.9	2940.8	2796.5	2658.0	2542.5	2484.8	2533.9
10°	3050.5	3128.4	3212.1	3102.4	2865.8	2591.6	2386.7	2127.0	1950.9	1858.6	1867.2
12.5°	3119.7	3229.4	3258.3	3004.3	2611.8	2204.9	1832.6	1471.8	1304.5	1171.7	1174.6
15°	3209.2	3316.0	3229.4	2790.7	2288.6	1688.3	1241.0	897.5	764.8	695.5	695.5
17.5°	3327.5	3408.3	3220.7	2594.5	1852.8	1154.4	761.9	606.1	577.2	565.7	565.7
20°	3466.1	3526.7	3137.1	2288.6	1376.6	741.7	559.9	542.6	545.4	539.7	539.7
22.5°	3621.9	3642.1	3041.8	1933.6	932.2	548.3	522.4	525.2	528.1	522.4	525.2
25°	3786.4	3731.6	2903.3	1518.0	620.5	499.3	505.0	510.8	513.7	516.6	516.6
27.5°	3971.1	3861.4	2709.9	1111.1	484.8	470.4	487.7	505.0	507.9	507.9	505.0
30°	4242.4	4060.6	2522.3	753.2	427.1	438.7	467.5	487.7	502.2	502.2	499.3
32.5°	4585.8	4268.4	2259.7	513.7	395.4	401.2	424.2	464.6	496.4	499.3	490.6
35°	5062.0	4519.4	1985.5	409.8	372.3	375.2	389.6	421.4	476.2	493.5	490.6
37.5°	5564.2	4805.1	1645.0	369.4	355.0	352.1	360.7	386.7	435.8	479.1	482.0
40°	6098.1	5105.3	1287.1	349.2	340.5	334.8	337.7	349.2	386.7	441.6	453.1
42.5°	6600.2	5376.6	966.8	329.0	326.1	320.3	320.3	323.2	343.4	380.9	386.7
45°	7142.8	5598.8	735.9	314.6	305.9	308.8	297.3	291.5	305.9	308.8	305.9
47.5°	7650.7	5821.0	588.7	297.3	288.6	288.6	274.2	262.6	262.6	236.6	233.8
50°	8126.9	5942.2	470.4	274.2	271.3	268.4	248.2	228.0	210.7	178.9	173.2
52.5°	8522.3	5936.4	363.6	245.3	254.0	245.3	213.6	184.7	158.7	129.9	124.1
55°	8640.6	5659.4	274.2	202.0	216.4	204.9	170.3	144.3	115.4	92.4	89.5
57.5°	8539.6	5238.0	207.8	155.8	167.4	155.8	129.9	106.8	80.8	63.5	57.7
60°	8201.9	4744.5	161.6	121.2	127.0	118.3	98.1	80.8	57.7	40.4	34.6
62.5°	7561.2	4126.9	124.1	95.2	92.4	92.4	75.0	60.6	40.4	23.1	20.2
65°	6204.8	3217.9	95.2	66.4	66.4	66.4	57.7	43.3	26.0	11.5	5.8
67.5°	3896.1	1873.0	77.9	51.9	49.1	49.1	40.4	28.9	14.4	2.9	0.0
70°	1466.1	686.9	60.6	40.4	37.5	37.5	28.9	17.3	8.7	0.0	0.0
72°	505.0	262.6	49.1	28.9	28.9	26.0	20.2	14.4	5.8	0.0	0.0
72.5°	415.6	210.7	46.2	28.9	26.0	26.0	20.2	14.4	5.8	0.0	0.0
75°	150.1	86.6	31.7	20.2	17.3	17.3	14.4	8.7	2.9	0.0	0.0
77.5°	75.0	54.8	26.0	17.3	14.4	8.7	8.7	5.8	2.9	0.0	0.0
80°	46.2	34.6	14.4	11.5	8.7	5.8	2.9	2.9	0.0	0.0	0.0
82.5°	31.7	20.2	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	20.2	8.7	5.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	5.8	2.9	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)