

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: P483405

Luminaire Tested: **IFLD-M-SA4D-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483405
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

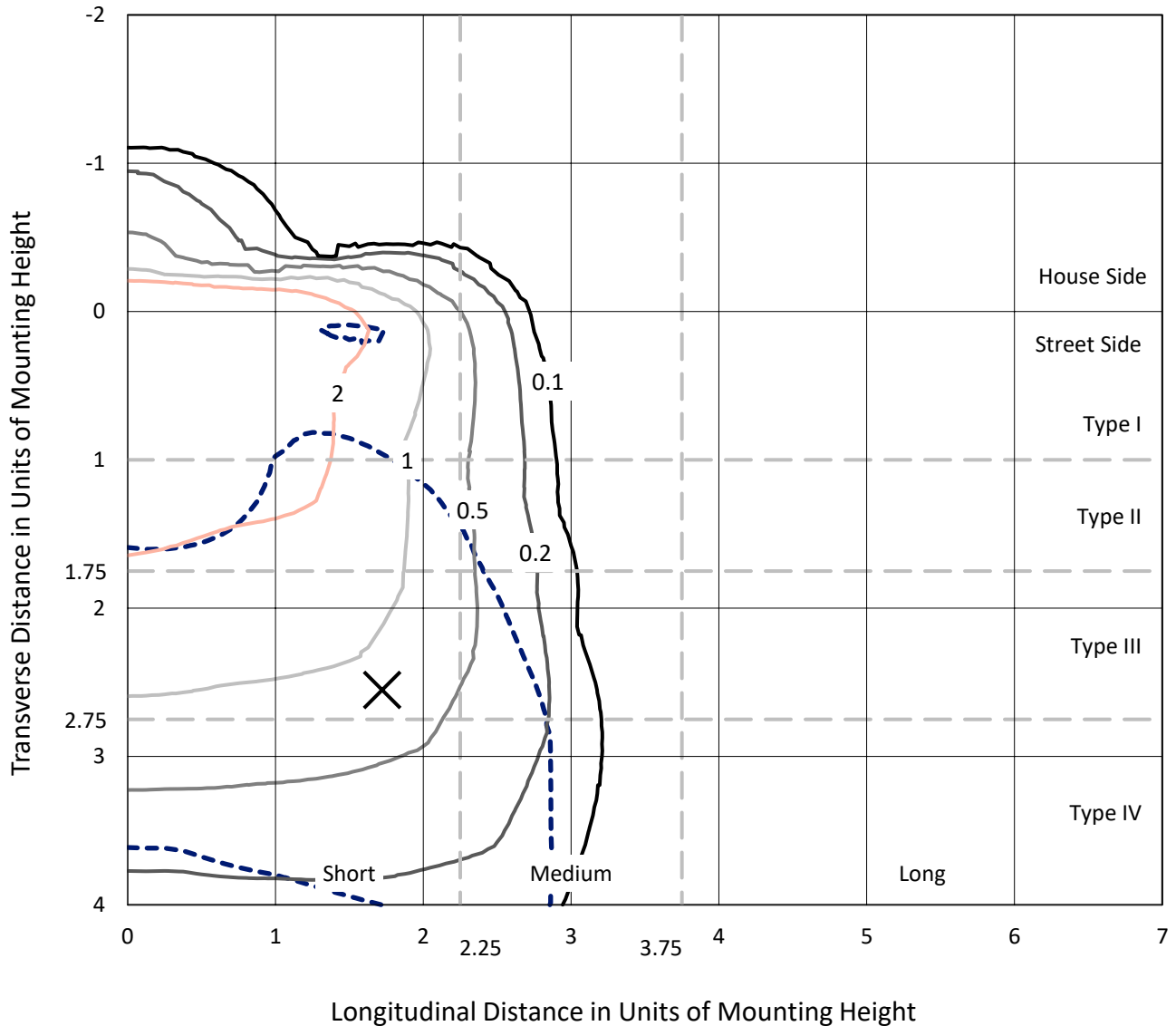
Lumens per Lamp: N/A
Luminaire Lumens: 17974.7 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

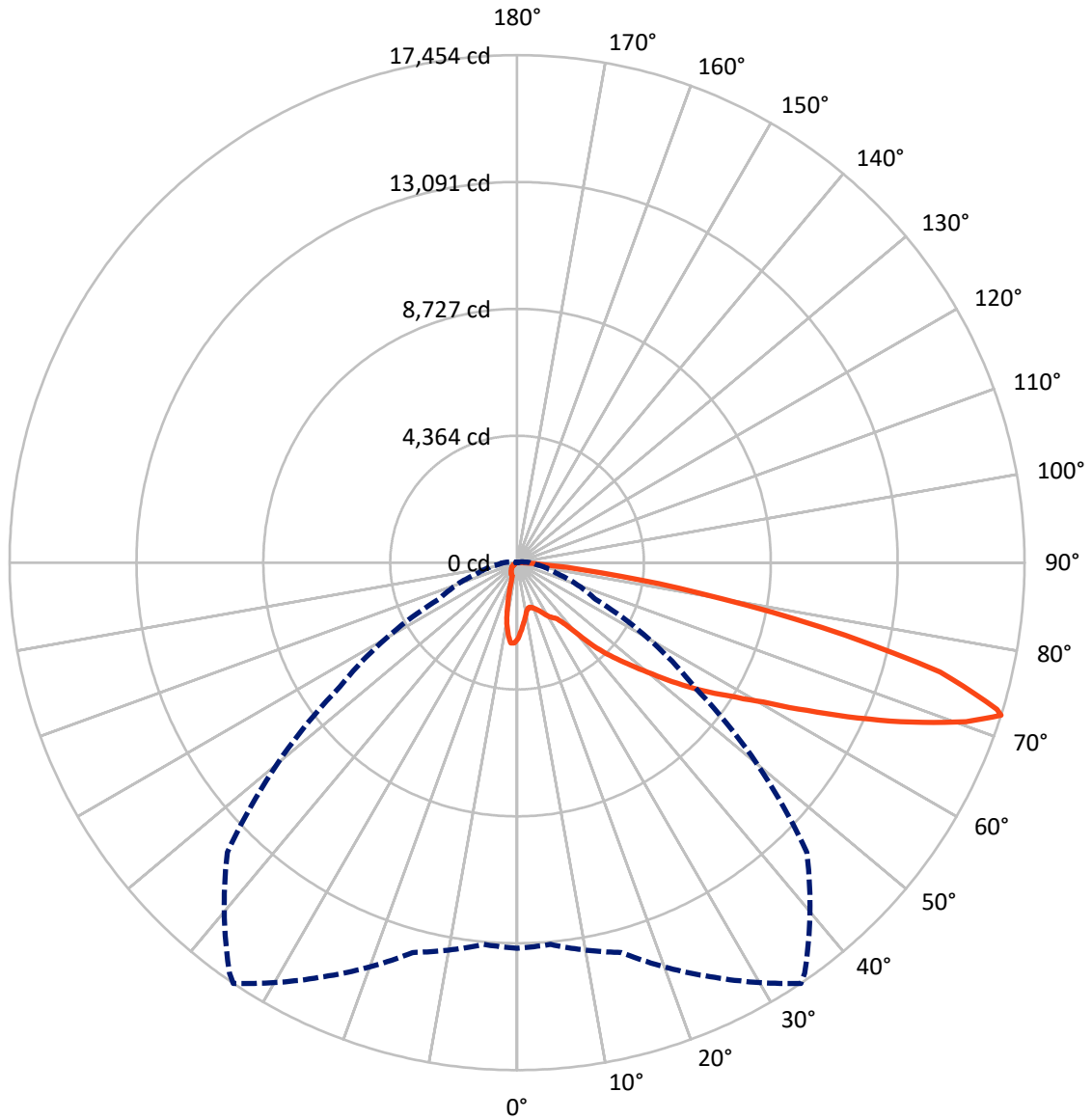
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1840.2	0.0	1840.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	16134.5	0.0	16134.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	17974.7	0.0	17974.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.3
10°-20°	516.8	2.9
20°-30°	780.1	4.3
30°-40°	1265.9	7.0
40°-50°	2380.5	13.2
50°-60°	3892.2	21.7
60°-70°	5174.2	28.8
70°-80°	3465.1	19.3
80°-90°	271.5	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°	17974.7	100.0
0°-180°	17974.7	100.0



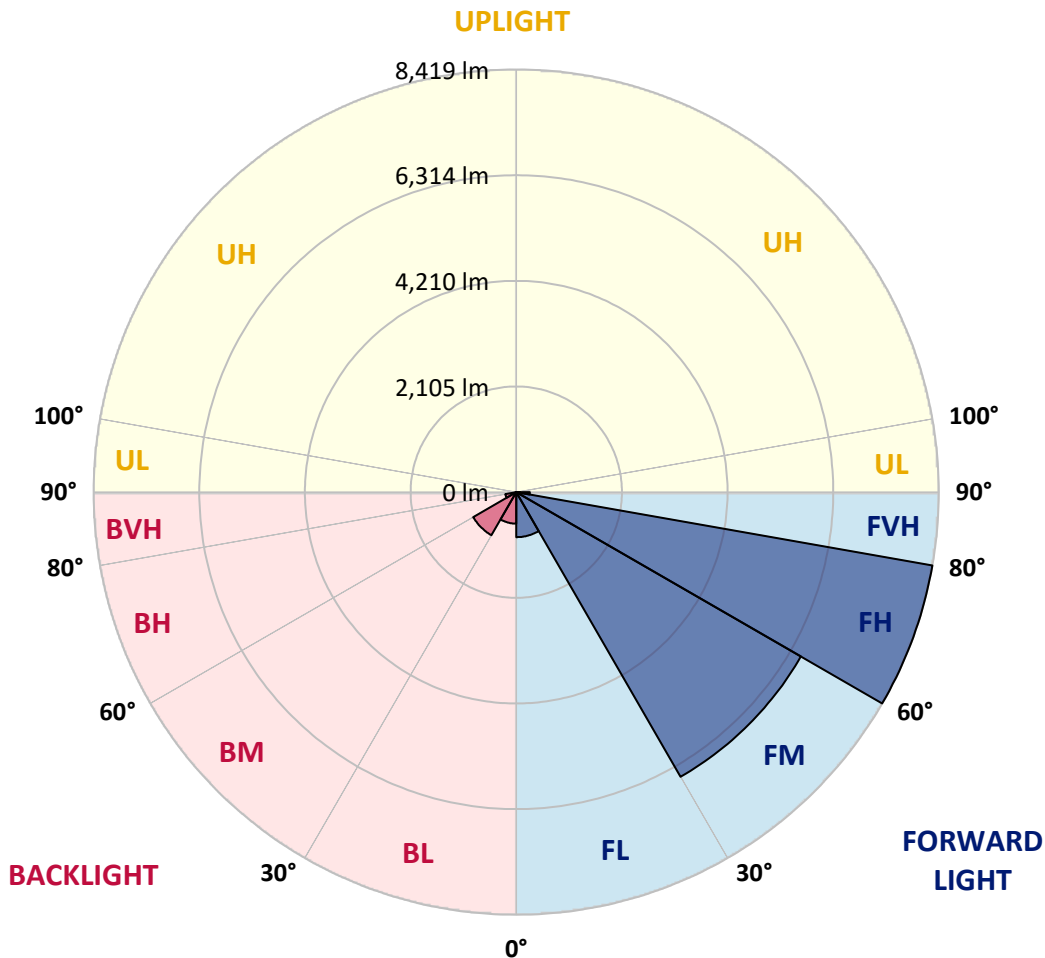
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.3	5.0			
FM (30°-60°)	6548.1	36.4			
FH (60°-80°)	8419.2	46.8			G4/12000
FVH (80°-90°)	269.8	1.5			G3/500
BL (0°-30°)	627.9	3.5	B2/1000		
BM (30°-60°)	990.5	5.5	B1/1000		
BH (60°-80°)	220.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7
2.5°	2325.7	2320.5	2336.1	2362.1	2388.0	2377.7	2427.0	2479.0	2515.4	2564.7	2624.5
5°	2032.0	2045.0	2060.6	2112.6	2146.4	2154.2	2245.1	2312.7	2424.4	2538.8	2645.3
7.5°	1764.4	1780.0	1811.2	1868.3	1938.5	1956.7	2047.6	2182.8	2328.3	2479.0	2653.1
10°	1569.5	1585.1	1618.9	1655.3	1748.8	1748.8	1873.5	2060.6	2250.3	2427.0	2655.7
12.5°	1527.9	1535.7	1533.1	1561.7	1621.5	1634.5	1756.6	1961.9	2182.8	2408.8	2697.3
15°	1577.3	1582.5	1556.5	1540.9	1592.9	1605.9	1720.2	1902.1	2138.6	2419.2	2764.8
17.5°	1676.0	1657.9	1605.9	1582.5	1626.7	1634.5	1741.0	1899.5	2133.4	2447.8	2842.8
20°	1733.2	1754.0	1663.1	1618.9	1681.2	1691.6	1806.0	1941.1	2159.4	2497.2	2951.9
22.5°	1834.6	1845.0	1722.8	1694.2	1754.0	1754.0	1883.9	2024.3	2221.7	2577.7	3081.9
25°	1977.5	1964.5	1821.6	1793.0	1850.1	1873.5	2003.5	2156.8	2317.9	2653.1	3201.4
27.5°	2089.2	2097.0	1980.1	1904.7	2000.9	2016.5	2156.8	2299.7	2390.6	2715.5	3346.9
30°	2255.5	2239.9	2115.2	2029.4	2149.0	2151.6	2286.7	2434.8	2531.0	2827.2	3565.2
32.5°	2453.0	2421.8	2278.9	2156.8	2252.9	2276.3	2414.0	2629.7	2749.2	3037.7	3903.0
35°	2871.4	2796.0	2562.1	2372.5	2380.2	2390.6	2603.7	2912.9	3050.7	3305.3	4355.1
37.5°	3482.0	3450.8	3185.8	2824.6	2686.9	2655.7	2894.8	3287.1	3458.6	3658.7	4942.4
40°	4087.5	4043.3	3796.4	3523.6	3274.1	3211.8	3331.3	3783.5	3939.4	4149.8	5545.3
42.5°	4760.5	4682.5	4391.5	4170.6	4014.7	3947.2	3900.4	4407.1	4583.8	4726.7	6135.1
45°	5441.3	5314.0	4893.0	4724.1	4641.0	4604.6	4599.4	5191.9	5298.4	5327.0	6789.9
47.5°	6039.0	5901.3	5519.3	5329.6	5267.2	5256.8	5547.9	6096.1	6013.0	5937.6	7520.1
50°	6498.9	6410.6	6135.1	6067.6	6020.8	6002.6	6683.4	7026.4	6641.8	6509.3	8162.0
52.5°	7210.9	7013.4	6701.6	6725.0	6888.7	6891.3	7834.6	7909.9	7164.1	6901.7	8767.4
55°	7780.0	7650.1	7395.4	7361.6	7793.0	7839.8	8866.2	8580.3	7455.2	7275.9	8990.9
57.5°	8450.4	8390.6	8206.1	8211.3	8663.5	8762.2	9783.4	9146.8	7696.8	7517.5	9024.7
60°	9419.7	9248.2	9152.0	9196.2	9728.9	9825.0	10672.1	9554.8	7813.8	7676.0	8941.5
62.5°	10490.2	10290.2	10186.2	10412.3	11189.2	11204.8	11347.8	9916.0	7741.0	7717.6	8406.2
65°	11779.1	11581.6	11498.5	11953.2	12875.7	12818.5	12296.2	10069.3	7509.7	7299.3	7000.4
67.5°	13062.8	12943.3	12771.8	13496.7	14645.3	14645.3	13281.1	10012.1	6904.3	5859.7	4578.6
70°	13670.8	13754.0	14026.8	15165.0	16383.7	16259.0	14252.9	9354.7	5139.9	3146.8	1800.8
72°	13265.5	13179.7	13883.9	15710.7	17454.3	17249.0	14089.2	7437.0	2970.1	1379.8	626.2
72.5°	12569.1	12649.6	13618.9	15635.3	17254.2	17423.1	13689.0	6860.1	2442.6	1099.2	472.9
75°	7707.2	7844.9	10165.4	13275.9	15035.1	14845.4	10589.0	3268.9	938.1	467.7	168.9
77.5°	2814.2	2928.5	4932.0	8354.3	10692.9	10573.4	6127.3	1161.5	509.3	348.2	85.8
80°	732.8	792.6	1676.0	3853.6	6288.4	6296.2	2564.7	465.1	345.6	285.8	52.0
82.5°	145.5	161.1	514.5	1499.3	2938.9	2900.0	810.7	249.5	259.9	233.9	36.4
85°	18.2	23.4	109.1	509.3	951.1	852.3	200.1	124.7	192.3	181.9	23.4
87.5°	2.6	2.6	26.0	116.9	200.1	194.9	41.6	39.0	85.8	111.7	13.0
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°	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7	2629.7
2.5°	2658.3	2668.7	2705.1	2736.2	2772.6	2783.0	2767.4	2793.4	2757.0	2777.8	2783.0
5°	2663.5	2723.3	2790.8	2835.0	2824.6	2798.6	2777.8	2707.7	2658.3	2640.1	2679.1
7.5°	2699.9	2767.4	2840.2	2840.2	2783.0	2647.9	2518.0	2393.2	2289.3	2237.3	2281.5
10°	2746.6	2816.8	2892.2	2793.4	2580.3	2333.5	2149.0	1915.1	1756.6	1673.5	1681.2
12.5°	2809.0	2907.7	2933.7	2705.1	2351.7	1985.3	1650.1	1325.2	1174.5	1055.0	1057.6
15°	2889.6	2985.7	2907.7	2512.8	2060.6	1520.1	1117.4	808.1	688.6	626.2	626.2
17.5°	2996.1	3068.9	2900.0	2336.1	1668.3	1039.4	686.0	545.7	519.7	509.3	509.3
20°	3120.8	3175.4	2824.6	2060.6	1239.5	667.8	504.1	488.5	491.1	485.9	485.9
22.5°	3261.1	3279.3	2738.8	1741.0	839.3	493.7	470.3	472.9	475.5	470.3	472.9
25°	3409.3	3359.9	2614.1	1366.8	558.7	449.5	454.7	459.9	462.5	465.1	465.1
27.5°	3575.6	3476.8	2440.0	1000.4	436.6	423.6	439.2	454.7	457.3	457.3	454.7
30°	3819.8	3656.1	2271.1	678.2	384.6	395.0	421.0	439.2	452.1	452.1	449.5
32.5°	4129.1	3843.2	2034.6	462.5	356.0	361.2	382.0	418.4	446.9	449.5	441.7
35°	4557.8	4069.3	1787.8	369.0	335.2	337.8	350.8	379.4	428.8	444.3	441.7
37.5°	5010.0	4326.5	1481.2	332.6	319.6	317.0	324.8	348.2	392.4	431.4	434.0
40°	5490.7	4596.8	1158.9	314.4	306.6	301.4	304.0	314.4	348.2	397.6	408.0
42.5°	5942.8	4841.1	870.5	296.2	293.6	288.4	288.4	291.0	309.2	343.0	348.2
45°	6431.3	5041.1	662.6	283.2	275.4	278.0	267.6	262.5	275.4	278.0	275.4
47.5°	6888.7	5241.2	530.1	267.6	259.9	259.9	246.9	236.5	236.5	213.1	210.5
50°	7317.4	5350.4	423.6	246.9	244.3	241.7	223.5	205.3	189.7	161.1	155.9
52.5°	7673.4	5345.2	327.4	220.9	228.7	220.9	192.3	166.3	142.9	116.9	111.7
55°	7780.0	5095.7	246.9	181.9	194.9	184.5	153.3	129.9	103.9	83.2	80.6
57.5°	7689.0	4716.3	187.1	140.3	150.7	140.3	116.9	96.1	72.8	57.2	52.0
60°	7385.0	4272.0	145.5	109.1	114.3	106.5	88.3	72.8	52.0	36.4	31.2
62.5°	6808.1	3715.9	111.7	85.8	83.2	83.2	67.6	54.6	36.4	20.8	18.2
65°	5586.8	2897.4	85.8	59.8	59.8	59.8	52.0	39.0	23.4	10.4	5.2
67.5°	3508.0	1686.4	70.2	46.8	44.2	44.2	36.4	26.0	13.0	2.6	0.0
70°	1320.1	618.4	54.6	36.4	33.8	33.8	26.0	15.6	7.8	0.0	0.0
72°	454.7	236.5	44.2	26.0	26.0	23.4	18.2	13.0	5.2	0.0	0.0
72.5°	374.2	189.7	41.6	26.0	23.4	23.4	18.2	13.0	5.2	0.0	0.0
75°	135.1	78.0	28.6	18.2	15.6	15.6	13.0	7.8	2.6	0.0	0.0
77.5°	67.6	49.4	23.4	15.6	13.0	7.8	7.8	5.2	2.6	0.0	0.0
80°	41.6	31.2	13.0	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0
82.5°	28.6	18.2	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.2	7.8	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	5.2	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)