

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: P483251

Luminaire Tested: **IFLD-L-SA7A-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483251
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

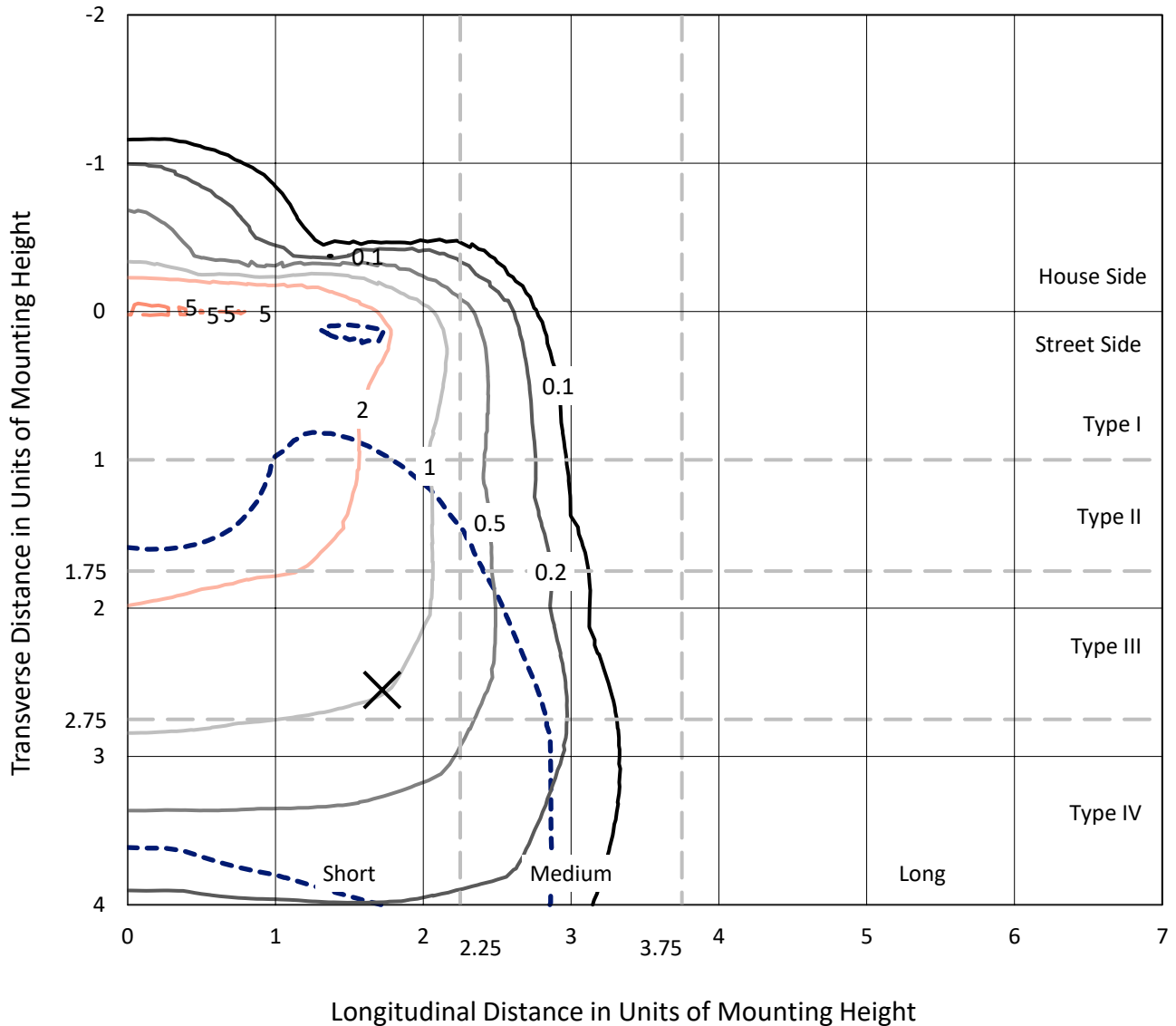
Lumens per Lamp: N/A
Luminaire Lumens: 22633 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

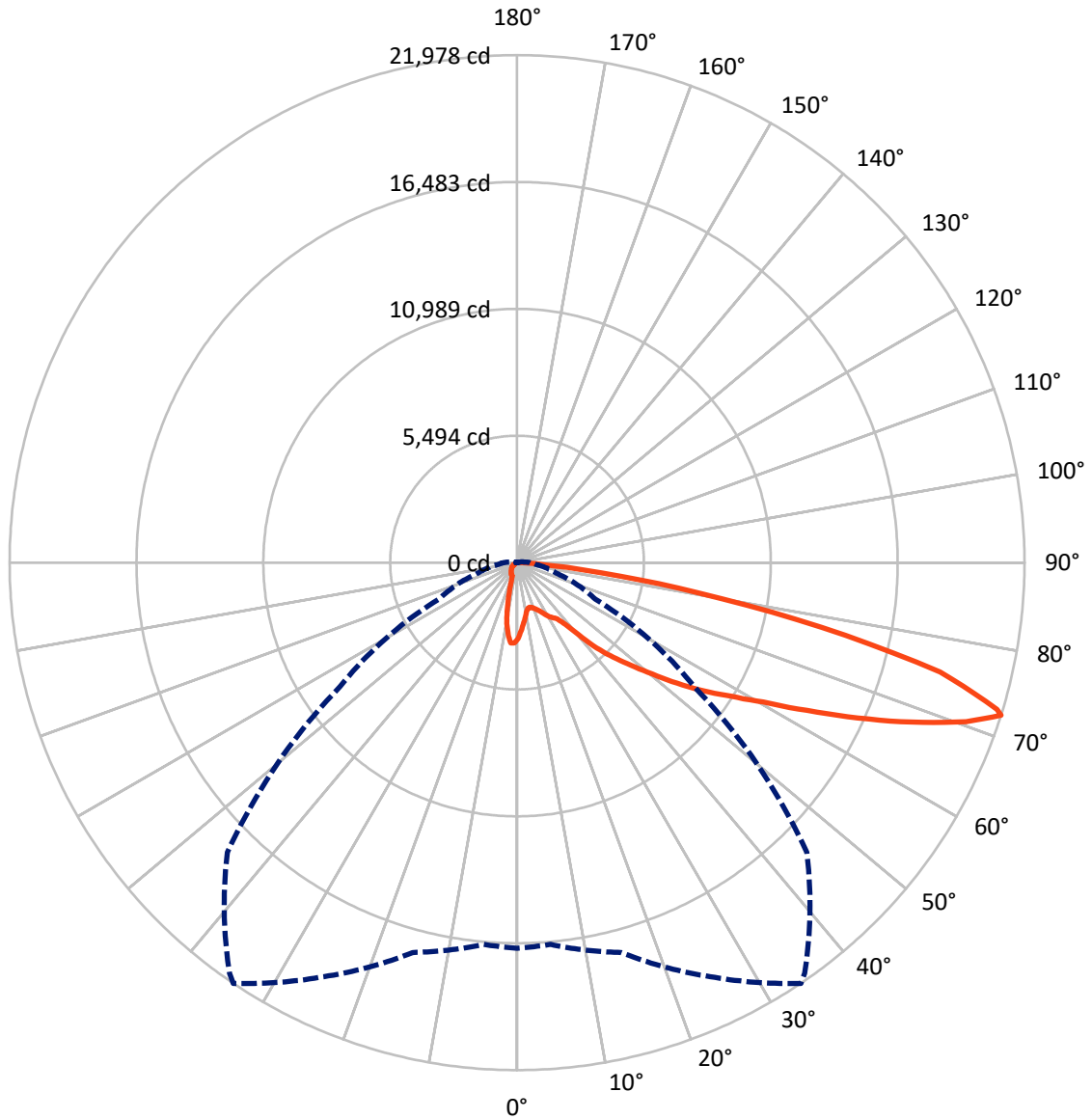
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2317.1	0.0	2317.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20315.9	0.0	20315.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	22633.0	0.0	22633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	1.3
10°-20°	650.8	2.9
20°-30°	982.3	4.3
30°-40°	1594.0	7.0
40°-50°	2997.5	13.2
50°-60°	4900.9	21.7
60°-70°	6515.1	28.8
70°-80°	4363.1	19.3
80°-90°	341.9	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°	22633.0	100.0
0°-180°	22633.0	100.0

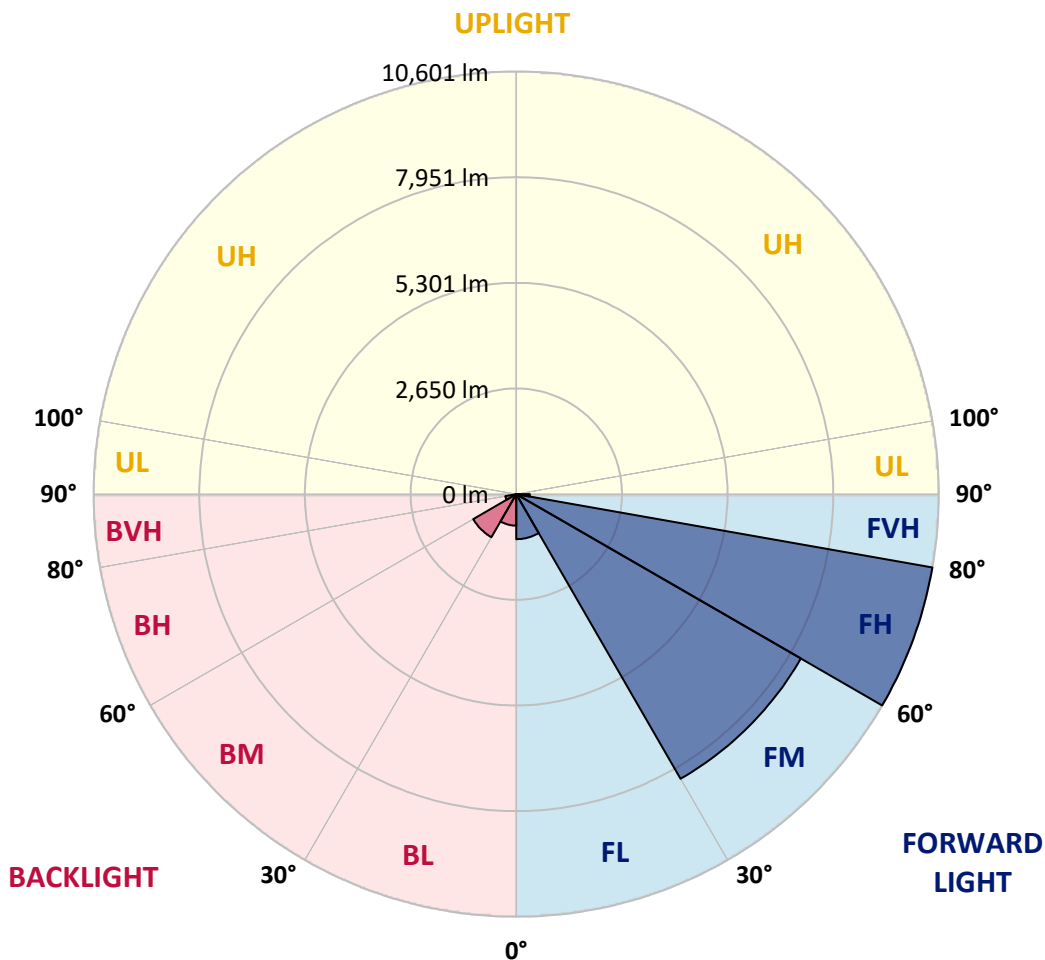


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.9	5.0			
FM (30°-60°)	8245.2	36.4			
FH (60°-80°)	10601.1	46.8			G4/12000
FVH (80°-90°)	339.8	1.5			G3/500
BL (0°-30°)	790.6	3.5	B2/1000		
BM (30°-60°)	1247.3	5.5	B2/2500		
BH (60°-80°)	277.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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°	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2
2.5°	2928.4	2921.9	2941.5	2974.2	3006.9	2993.8	3056.0	3121.5	3167.3	3229.4	3304.7
5°	2558.7	2575.0	2594.7	2660.1	2702.6	2712.5	2827.0	2912.0	3052.7	3196.7	3330.9
7.5°	2221.7	2241.3	2280.6	2352.5	2440.9	2463.8	2578.3	2748.5	2931.7	3121.5	3340.7
10°	1976.3	1995.9	2038.4	2084.2	2202.0	2202.0	2359.1	2594.7	2833.5	3056.0	3343.9
12.5°	1923.9	1933.7	1930.5	1966.5	2041.7	2058.1	2211.8	2470.3	2748.5	3033.1	3396.3
15°	1986.1	1992.6	1959.9	1940.3	2005.7	2022.1	2166.0	2395.1	2692.8	3046.2	3481.4
17.5°	2110.4	2087.5	2022.1	1992.6	2048.3	2058.1	2192.2	2391.8	2686.3	3082.2	3579.5
20°	2182.4	2208.6	2094.1	2038.4	2117.0	2130.0	2274.0	2444.2	2719.0	3144.4	3717.0
22.5°	2310.0	2323.1	2169.3	2133.3	2208.6	2208.6	2372.2	2548.9	2797.5	3245.8	3880.6
25°	2490.0	2473.6	2293.6	2257.7	2329.6	2359.1	2522.7	2715.7	2918.6	3340.7	4031.1
27.5°	2630.7	2640.5	2493.2	2398.4	2519.4	2539.0	2715.7	2895.7	3010.2	3419.2	4214.3
30°	2840.1	2820.4	2663.4	2555.4	2705.9	2709.2	2879.3	3065.8	3186.9	3559.9	4489.1
32.5°	3088.7	3049.5	2869.5	2715.7	2836.8	2866.2	3039.7	3311.2	3461.7	3824.9	4914.5
35°	3615.5	3520.6	3226.2	2987.3	2997.1	3010.2	3278.5	3667.9	3841.3	4161.9	5483.8
37.5°	4384.4	4345.2	4011.4	3556.6	3383.2	3343.9	3645.0	4139.0	4355.0	4606.9	6223.3
40°	5146.8	5091.2	4780.3	4436.8	4122.7	4044.1	4194.7	4764.0	4960.3	5225.3	6982.4
42.5°	5994.2	5896.1	5529.6	5251.5	5055.2	4970.1	4911.2	5549.3	5771.7	5951.7	7725.1
45°	6851.5	6691.2	6161.1	5948.4	5843.7	5797.9	5791.4	6537.4	6671.5	6707.5	8549.6
47.5°	7604.0	7430.6	6949.7	6710.8	6632.3	6619.2	6985.6	7676.0	7571.3	7476.4	9469.1
50°	8183.2	8071.9	7725.1	7640.0	7581.1	7558.2	8415.5	8847.4	8363.1	8196.3	10277.2
52.5°	9079.7	8831.0	8438.4	8467.8	8674.0	8677.3	9865.0	9959.9	9020.8	8690.3	11039.6
55°	9796.3	9632.7	9312.0	9269.5	9812.6	9871.5	11163.9	10804.0	9387.3	9161.5	11321.0
57.5°	10640.4	10565.2	10332.9	10339.4	10908.7	11033.1	12318.9	11517.3	9691.6	9465.8	11363.5
60°	11860.9	11644.9	11523.9	11579.5	12250.2	12371.3	13438.0	12031.0	9838.8	9665.4	11258.8
62.5°	13208.9	12957.0	12826.1	13110.8	14089.1	14108.7	14288.7	12485.8	9747.2	9717.7	10584.8
65°	14831.8	14583.1	14478.4	15051.0	16212.6	16140.6	15482.9	12678.9	9456.0	9191.0	8814.7
67.5°	16448.2	16297.7	16081.7	16994.6	18440.8	18440.8	16723.0	12606.9	8693.6	7378.3	5765.2
70°	17213.8	17318.5	17662.1	19095.2	20629.7	20472.7	17946.7	11779.1	6471.9	3962.3	2267.5
72°	16703.4	16595.4	17482.1	19782.3	21977.8	21719.3	17740.6	9364.4	3739.9	1737.4	788.5
72.5°	15826.5	15927.9	17148.4	19687.4	21725.8	21938.5	17236.7	8638.0	3075.6	1384.0	595.5
75°	9704.6	9878.1	12799.9	16716.5	18931.6	18692.7	13333.3	4116.1	1181.2	589.0	212.7
77.5°	3543.5	3687.5	6210.2	10519.4	13464.1	13313.6	7715.3	1462.6	641.3	438.4	108.0
80°	922.7	997.9	2110.4	4852.3	7918.2	7928.0	3229.4	585.7	435.2	359.9	65.4
82.5°	183.2	202.9	647.8	1887.9	3700.6	3651.5	1020.9	314.1	327.2	294.5	45.8
85°	22.9	29.4	137.4	641.3	1197.5	1073.2	251.9	157.1	242.1	229.0	29.4
87.5°	3.3	3.3	32.7	147.2	251.9	245.4	52.4	49.1	108.0	140.7	16.4
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°	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2	3311.2
2.5°	3347.2	3360.3	3406.1	3445.4	3491.2	3504.3	3484.6	3517.4	3471.6	3497.7	3504.3
5°	3353.8	3429.0	3514.1	3569.7	3556.6	3523.9	3497.7	3409.4	3347.2	3324.3	3373.4
7.5°	3399.6	3484.6	3576.3	3576.3	3504.3	3334.1	3170.5	3013.5	2882.6	2817.2	2872.8
10°	3458.5	3546.8	3641.7	3517.4	3249.1	2938.2	2705.9	2411.4	2211.8	2107.1	2117.0
12.5°	3537.0	3661.3	3694.0	3406.1	2961.1	2499.8	2077.7	1668.7	1478.9	1328.4	1331.7
15°	3638.4	3759.5	3661.3	3164.0	2594.7	1914.1	1406.9	1017.6	867.1	788.5	788.5
17.5°	3772.6	3864.2	3651.5	2941.5	2100.6	1308.8	863.8	687.1	654.4	641.3	641.3
20°	3929.6	3998.3	3556.6	2594.7	1560.7	840.9	634.8	615.1	618.4	611.9	611.9
22.5°	4106.3	4129.2	3448.7	2192.2	1056.8	621.7	592.2	595.5	598.8	592.2	595.5
25°	4292.8	4230.7	3291.6	1721.1	703.5	566.0	572.6	579.1	582.4	585.7	585.7
27.5°	4502.2	4377.9	3072.4	1259.7	549.7	533.3	553.0	572.6	575.9	575.9	572.6
30°	4809.8	4603.7	2859.7	854.0	484.3	497.3	530.1	553.0	569.3	569.3	566.0
32.5°	5199.2	4839.2	2561.9	582.4	448.3	454.8	481.0	526.8	562.8	566.0	556.2
35°	5739.0	5123.9	2251.1	464.6	422.1	425.4	441.7	477.7	539.9	559.5	556.2
37.5°	6308.3	5447.8	1865.0	418.8	402.5	399.2	409.0	438.4	494.1	543.1	546.4
40°	6913.7	5788.1	1459.3	395.9	386.1	379.5	382.8	395.9	438.4	500.6	513.7
42.5°	7483.0	6095.7	1096.1	373.0	369.7	363.2	363.2	366.5	389.4	431.9	438.4
45°	8098.1	6347.6	834.4	356.6	346.8	350.1	337.0	330.5	346.8	350.1	346.8
47.5°	8674.0	6599.6	667.5	337.0	327.2	327.2	310.8	297.7	297.7	268.3	265.0
50°	9213.9	6737.0	533.3	310.8	307.6	304.3	281.4	258.5	238.9	202.9	196.3
52.5°	9662.1	6730.4	412.3	278.1	287.9	278.1	242.1	209.4	180.0	147.2	140.7
55°	9796.3	6416.3	310.8	229.0	245.4	232.3	193.0	163.6	130.9	104.7	101.4
57.5°	9681.7	5938.6	235.6	176.7	189.8	176.7	147.2	121.1	91.6	72.0	65.4
60°	9298.9	5379.1	183.2	137.4	144.0	134.2	111.2	91.6	65.4	45.8	39.3
62.5°	8572.5	4678.9	140.7	108.0	104.7	104.7	85.1	68.7	45.8	26.2	22.9
65°	7034.7	3648.2	108.0	75.3	75.3	75.3	65.4	49.1	29.4	13.1	6.5
67.5°	4417.2	2123.5	88.3	58.9	55.6	55.6	45.8	32.7	16.4	3.3	0.0
70°	1662.2	778.7	68.7	45.8	42.5	42.5	32.7	19.6	9.8	0.0	0.0
72°	572.6	297.7	55.6	32.7	32.7	29.4	22.9	16.4	6.5	0.0	0.0
72.5°	471.2	238.9	52.4	32.7	29.4	29.4	22.9	16.4	6.5	0.0	0.0
75°	170.1	98.2	36.0	22.9	19.6	19.6	16.4	9.8	3.3	0.0	0.0
77.5°	85.1	62.2	29.4	19.6	16.4	9.8	9.8	6.5	3.3	0.0	0.0
80°	52.4	39.3	16.4	13.1	9.8	6.5	3.3	3.3	0.0	0.0	0.0
82.5°	36.0	22.9	9.8	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0
85°	22.9	9.8	6.5	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	6.5	3.3	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)