

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: P483178

Luminaire Tested: **IFLD-L-SA8A-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

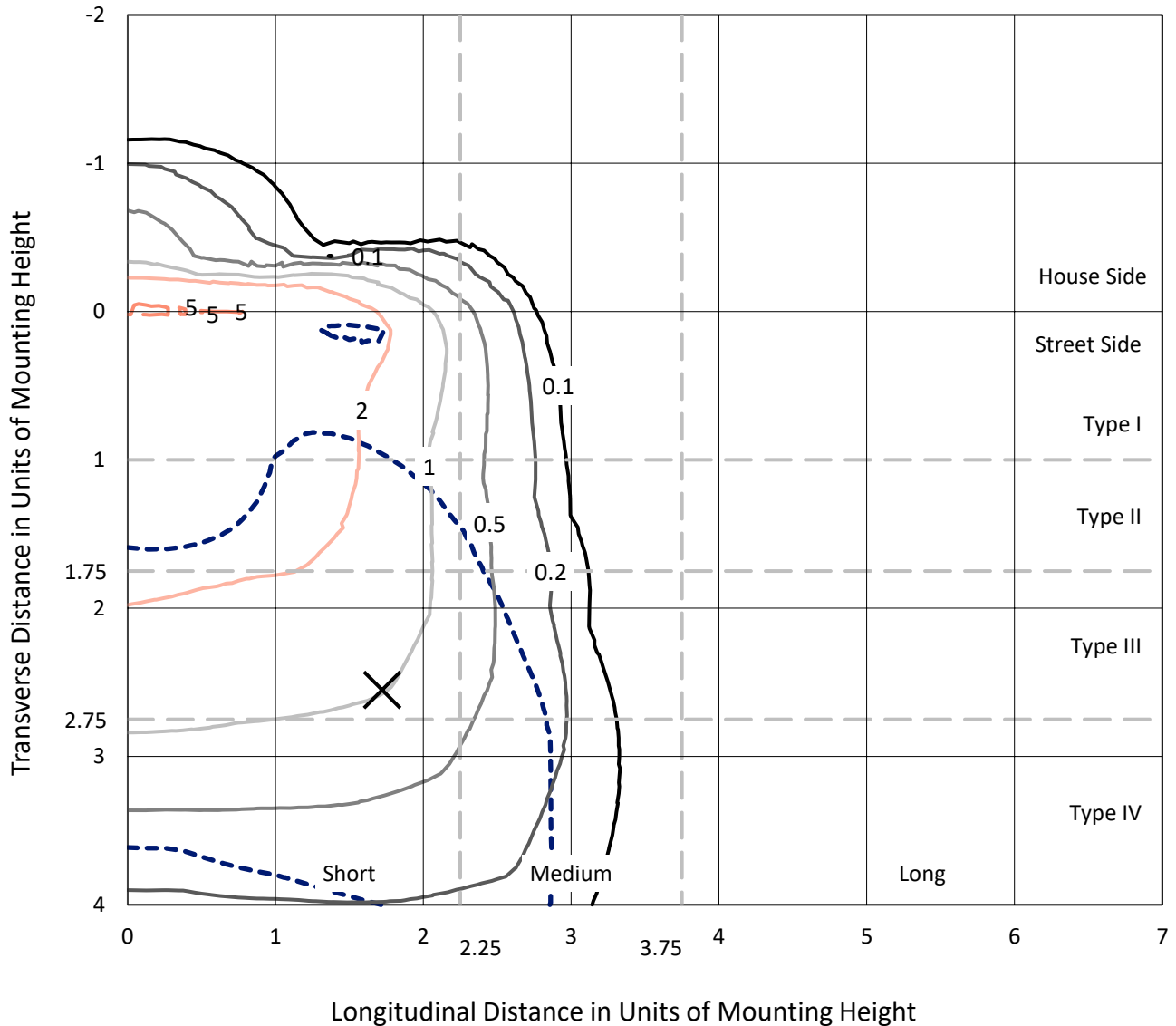
Lumens per Lamp: N/A
Luminaire Lumens: 22555.8 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

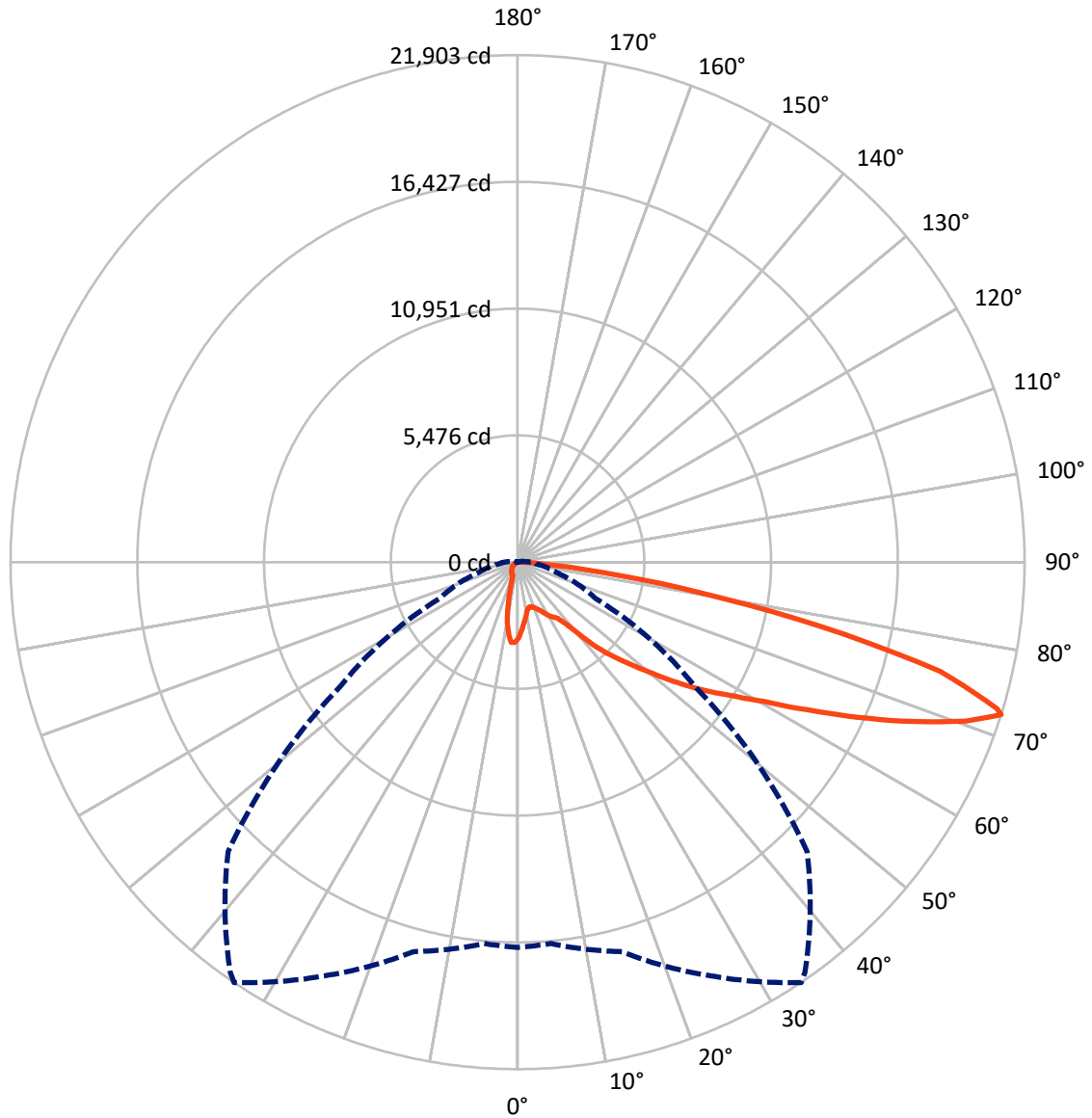
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2309.2	0.0	2309.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	20246.6	0.0	20246.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	22555.8	0.0	22555.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	1.3
10°-20°	648.5	2.9
20°-30°	978.9	4.3
30°-40°	1588.6	7.0
40°-50°	2987.2	13.2
50°-60°	4884.2	21.7
60°-70°	6492.9	28.8
70°-80°	4348.2	19.3
80°-90°	340.8	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°	22555.8	100.0
0°-180°	22555.8	100.0



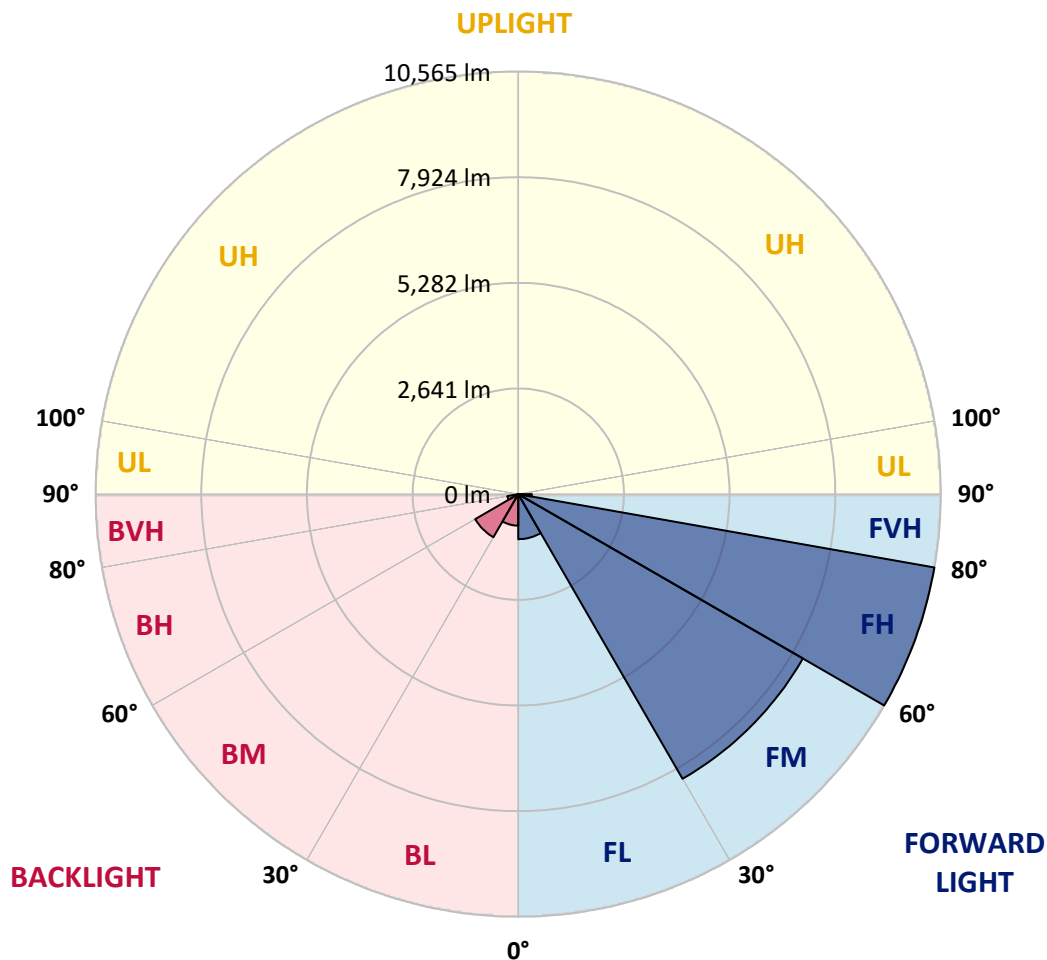
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.0	5.0			
FM (30°-60°)	8217.0	36.4			
FH (60°-80°)	10565.0	46.8			G4/12000
FVH (80°-90°)	338.6	1.5			G3/500
BL (0°-30°)	787.9	3.5	B2/1000		
BM (30°-60°)	1243.0	5.5	B2/2500		
BH (60°-80°)	276.1	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°	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9
2.5°	2918.4	2911.9	2931.5	2964.1	2996.7	2983.6	3045.6	3110.8	3156.5	3218.4	3293.4
5°	2549.9	2566.3	2585.8	2651.0	2693.4	2703.2	2817.3	2902.1	3042.3	3185.8	3319.5
7.5°	2214.1	2233.6	2272.8	2344.5	2432.6	2455.4	2569.5	2739.1	2921.7	3110.8	3329.3
10°	1969.5	1989.1	2031.5	2077.1	2194.5	2194.5	2351.0	2585.8	2823.9	3045.6	3332.5
12.5°	1917.4	1927.1	1923.9	1959.7	2034.7	2051.0	2204.3	2461.9	2739.1	3022.8	3384.7
15°	1979.3	1985.8	1953.2	1933.7	1998.9	2015.2	2158.7	2386.9	2683.6	3035.8	3469.5
17.5°	2103.2	2080.4	2015.2	1985.8	2041.3	2051.0	2184.7	2383.6	2677.1	3071.7	3567.3
20°	2175.0	2201.0	2086.9	2031.5	2109.7	2122.8	2266.3	2435.8	2709.7	3133.6	3704.3
22.5°	2302.1	2315.2	2161.9	2126.0	2201.0	2201.0	2364.1	2540.2	2788.0	3234.7	3867.3
25°	2481.5	2465.2	2285.8	2250.0	2321.7	2351.0	2514.1	2706.5	2908.6	3329.3	4017.3
27.5°	2621.7	2631.5	2484.7	2390.2	2510.8	2530.4	2706.5	2885.8	2999.9	3407.5	4199.9
30°	2830.4	2810.8	2654.3	2546.7	2696.7	2699.9	2869.5	3055.4	3176.0	3547.8	4473.8
32.5°	3078.2	3039.1	2859.7	2706.5	2827.1	2856.5	3029.3	3299.9	3449.9	3811.9	4897.7
35°	3603.2	3508.6	3215.2	2977.1	2986.9	2999.9	3267.3	3655.4	3828.2	4147.7	5465.1
37.5°	4369.5	4330.3	3997.7	3544.5	3371.7	3332.5	3632.5	4124.9	4340.1	4591.2	6202.0
40°	5129.2	5073.8	4764.0	4421.6	4108.6	4030.4	4180.3	4747.7	4943.4	5207.5	6958.6
42.5°	5973.8	5876.0	5510.8	5233.6	5037.9	4953.2	4894.5	5530.3	5752.1	5931.4	7698.8
45°	6828.1	6668.3	6140.1	5928.1	5823.8	5778.1	5771.6	6515.1	6648.8	6684.6	8520.5
47.5°	7578.1	7405.3	6925.9	6687.9	6609.6	6596.6	6961.8	7649.8	7545.5	7450.9	9436.8
50°	8155.3	8044.4	7698.8	7614.0	7555.3	7532.5	8386.8	8817.2	8334.6	8168.3	10242.2
52.5°	9048.7	8800.9	8409.6	8439.0	8644.4	8647.6	9831.3	9925.9	8990.0	8660.7	11001.9
55°	9762.8	9599.8	9280.2	9237.9	9779.1	9837.8	11125.9	10767.2	9355.2	9130.2	11282.4
57.5°	10604.1	10529.1	10297.6	10304.1	10871.5	10995.4	12276.9	11478.0	9658.5	9433.5	11324.8
60°	11820.4	11605.2	11484.5	11540.0	12208.4	12329.1	13392.1	11990.0	9805.2	9632.4	11220.4
62.5°	13163.9	12912.8	12782.3	13066.0	14041.0	14060.6	14239.9	12443.2	9713.9	9684.6	10548.7
65°	14781.2	14533.4	14429.0	14999.7	16157.3	16085.5	15430.1	12635.6	9423.7	9159.6	8784.6
67.5°	16392.1	16242.1	16026.8	16936.6	18377.9	18377.9	16666.0	12563.9	8664.0	7353.1	5745.5
70°	17155.1	17259.4	17601.8	19030.0	20559.4	20402.8	17885.5	11738.9	6449.9	3948.8	2259.7
72°	16646.4	16538.8	17422.5	19714.8	21902.8	21645.2	17680.1	9332.4	3727.1	1731.5	785.9
72.5°	15772.5	15873.6	17089.9	19620.2	21651.7	21863.7	17177.9	8608.5	3065.2	1379.3	593.5
75°	9671.5	9844.4	12756.3	16659.4	18867.0	18629.0	13287.8	4102.1	1177.1	586.9	212.0
77.5°	3531.4	3674.9	6189.0	10483.5	13418.2	13268.2	7689.0	1457.6	639.1	436.9	107.6
80°	919.5	994.5	2103.2	4835.8	7891.1	7900.9	3218.4	583.7	433.7	358.7	65.2
82.5°	182.6	202.2	645.6	1881.5	3688.0	3639.1	1017.4	313.0	326.1	293.5	45.7
85°	22.8	29.3	137.0	639.1	1193.5	1069.5	251.1	156.5	241.3	228.3	29.3
87.5°	3.3	3.3	32.6	146.7	251.1	244.6	52.2	48.9	107.6	140.2	16.3
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°	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9	3299.9
2.5°	3335.8	3348.8	3394.5	3433.6	3479.3	3492.3	3472.8	3505.4	3459.7	3485.8	3492.3
5°	3342.3	3417.3	3502.1	3557.5	3544.5	3511.9	3485.8	3397.8	3335.8	3313.0	3361.9
7.5°	3388.0	3472.8	3564.1	3564.1	3492.3	3322.8	3159.7	3003.2	2872.8	2807.6	2863.0
10°	3446.7	3534.7	3629.3	3505.4	3238.0	2928.2	2696.7	2403.2	2204.3	2100.0	2109.7
12.5°	3524.9	3648.8	3681.4	3394.5	2951.0	2491.3	2070.6	1663.0	1473.9	1323.9	1327.1
15°	3626.0	3746.7	3648.8	3153.2	2585.8	1907.6	1402.1	1014.1	864.1	785.9	785.9
17.5°	3759.7	3851.0	3639.1	2931.5	2093.4	1304.3	860.9	684.8	652.2	639.1	639.1
20°	3916.2	3984.7	3544.5	2585.8	1555.4	838.0	632.6	613.0	616.3	609.8	609.8
22.5°	4092.3	4115.1	3436.9	2184.7	1053.2	619.6	590.2	593.5	596.7	590.2	593.5
25°	4278.2	4216.2	3280.4	1715.2	701.1	564.1	570.6	577.2	580.4	583.7	583.7
27.5°	4486.9	4363.0	3061.9	1255.4	547.8	531.5	551.1	570.6	573.9	573.9	570.6
30°	4793.4	4587.9	2849.9	851.1	482.6	495.6	528.2	551.1	567.4	567.4	564.1
32.5°	5181.4	4822.7	2553.2	580.4	446.7	453.3	479.3	525.0	560.9	564.1	554.3
35°	5719.4	5106.4	2243.4	463.0	420.6	423.9	440.2	476.1	538.0	557.6	554.3
37.5°	6286.8	5429.2	1858.7	417.4	401.1	397.8	407.6	436.9	492.4	541.3	544.6
40°	6890.1	5768.4	1454.3	394.6	384.8	378.3	381.5	394.6	436.9	498.9	511.9
42.5°	7457.5	6074.9	1092.4	371.7	368.5	361.9	361.9	365.2	388.0	430.4	436.9
45°	8070.5	6326.0	831.5	355.4	345.6	348.9	335.9	329.3	345.6	348.9	345.6
47.5°	8644.4	6577.0	665.2	335.9	326.1	326.1	309.8	296.7	296.7	267.4	264.1
50°	9182.4	6714.0	531.5	309.8	306.5	303.3	280.4	257.6	238.0	202.2	195.6
52.5°	9629.1	6707.5	410.9	277.2	287.0	277.2	241.3	208.7	179.3	146.7	140.2
55°	9762.8	6394.4	309.8	228.3	244.6	231.5	192.4	163.0	130.4	104.3	101.1
57.5°	9648.7	5918.4	234.8	176.1	189.1	176.1	146.7	120.6	91.3	71.7	65.2
60°	9267.2	5360.8	182.6	137.0	143.5	133.7	110.9	91.3	65.2	45.7	39.1
62.5°	8543.3	4662.9	140.2	107.6	104.3	104.3	84.8	68.5	45.7	26.1	22.8
65°	7010.7	3635.8	107.6	75.0	75.0	75.0	65.2	48.9	29.3	13.0	6.5
67.5°	4402.1	2116.3	88.0	58.7	55.4	55.4	45.7	32.6	16.3	3.3	0.0
70°	1656.5	776.1	68.5	45.7	42.4	42.4	32.6	19.6	9.8	0.0	0.0
72°	570.6	296.7	55.4	32.6	32.6	29.3	22.8	16.3	6.5	0.0	0.0
72.5°	469.6	238.0	52.2	32.6	29.3	29.3	22.8	16.3	6.5	0.0	0.0
75°	169.6	97.8	35.9	22.8	19.6	19.6	16.3	9.8	3.3	0.0	0.0
77.5°	84.8	62.0	29.3	19.6	16.3	9.8	9.8	6.5	3.3	0.0	0.0
80°	52.2	39.1	16.3	13.0	9.8	6.5	3.3	3.3	0.0	0.0	0.0
82.5°	35.9	22.8	9.8	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0
85°	22.8	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)