

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: P482741

Luminaire Tested: **IFLD-M-SA4C-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482741
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

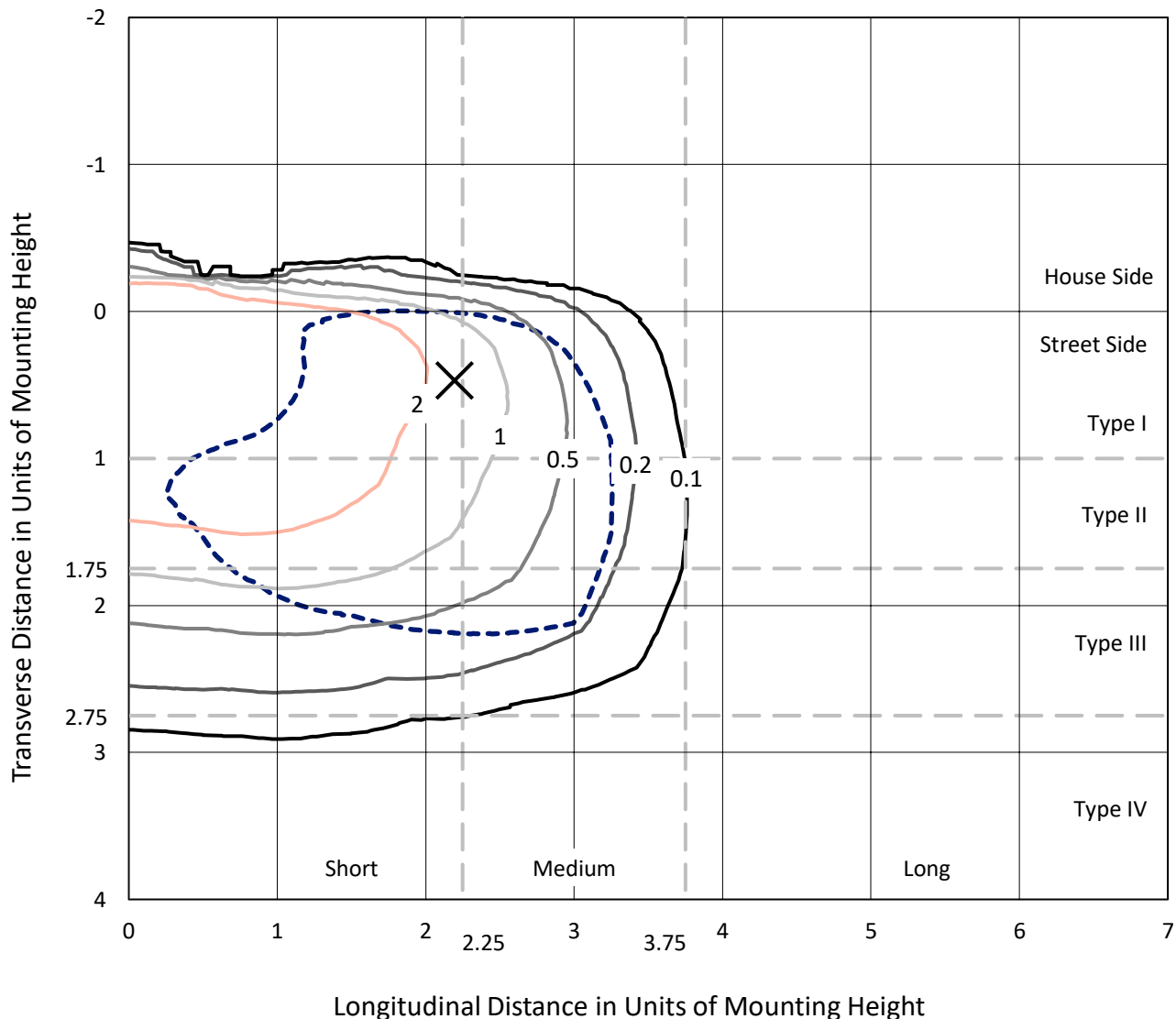
Lumens per Lamp: N/A
Luminaire Lumens: 17044.1 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (A_{in}): 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

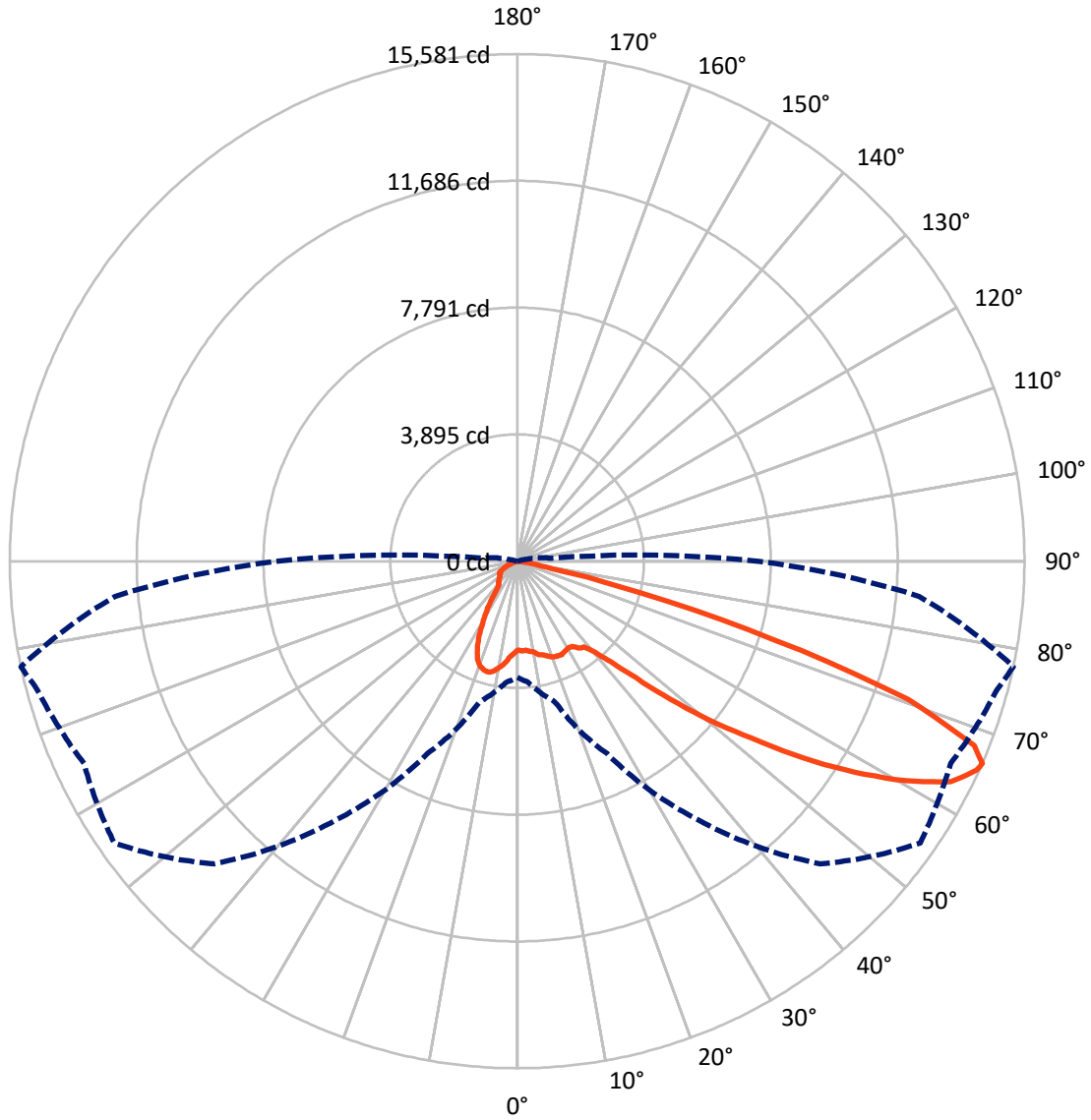
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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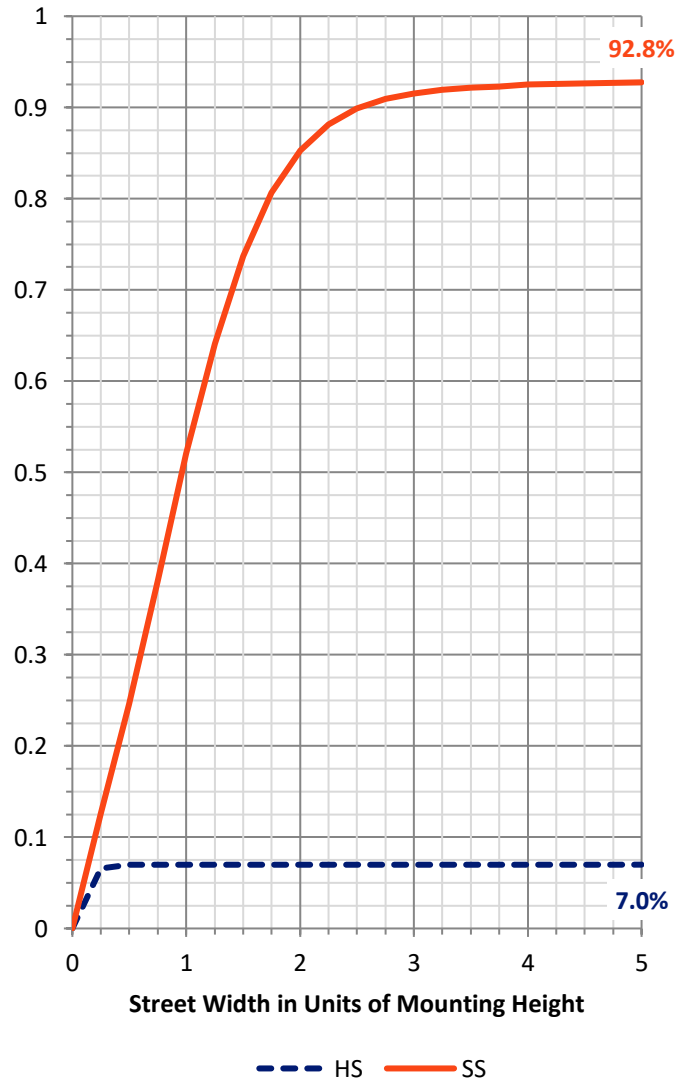
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.3	0.0	1198.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15845.8	0.0	15845.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	17044.1	0.0	17044.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	1.5
10°-20°	563.8	3.3
20°-30°	805.8	4.7
30°-40°	1379.3	8.1
40°-50°	2489.5	14.6
50°-60°	4257.4	25.0
60°-70°	5240.1	30.7
70°-80°	1981.1	11.6
80°-90°	77.4	0.5
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°	17044.1	100.0
0°-180°	17044.1	100.0

Coefficient of Utilization

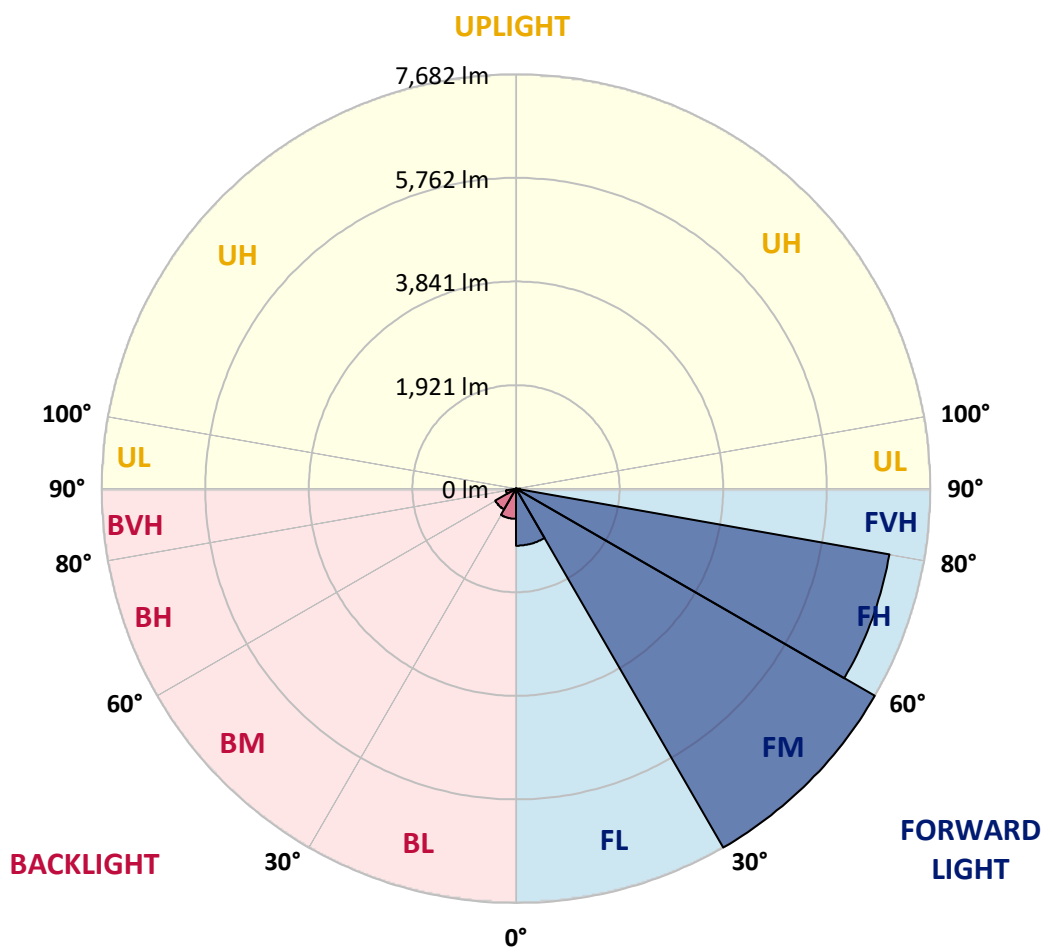


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.1	6.2			
FM (30°-60°)	7682.1	45.1			
FH (60°-80°)	7031.3	41.3			G3/7500
FVH (80°-90°)	74.3	0.4			G1/100
BL (0°-30°)	561.2	3.3	B2/1000		
BM (30°-60°)	444.1	2.6	B1/1000		
BH (60°-80°)	189.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9
2.5°	2511.0	2487.8	2511.0	2544.5	2562.5	2578.0	2632.0	2678.4	2727.3	2760.8	2750.5
5°	2328.2	2371.9	2377.1	2387.4	2415.7	2508.4	2539.3	2619.2	2740.2	2750.5	2796.9
7.5°	2183.9	2171.1	2204.5	2271.5	2343.6	2397.7	2487.8	2626.9	2753.1	2796.9	2887.0
10°	1975.3	2001.1	2037.1	2104.1	2191.7	2325.6	2485.3	2639.8	2820.1	2835.5	3002.9
12.5°	1862.0	1836.3	1892.9	1962.4	2111.8	2235.4	2431.2	2616.6	2861.3	2946.2	3139.4
15°	1769.3	1782.2	1836.3	1882.6	2006.2	2163.3	2392.5	2673.3	2930.8	2990.0	3283.6
17.5°	1730.7	1722.9	1764.1	1810.5	1962.4	2140.1	2377.1	2675.8	2992.6	3069.9	3381.5
20°	1748.7	1764.1	1751.3	1795.0	1890.3	2070.6	2400.3	2724.8	3039.0	3144.6	3487.1
22.5°	2032.0	2011.4	1908.4	1826.0	1831.1	2042.3	2382.2	2755.7	3080.2	3165.2	3559.2
25°	2771.1	2660.4	2405.4	2088.6	1880.0	1965.0	2361.6	2745.4	3072.4	3178.0	3603.0
27.5°	3515.4	3420.1	3170.3	2678.4	2078.3	1934.1	2289.5	2753.1	3033.8	3131.7	3530.9
30°	4300.9	4352.4	3981.6	3396.9	2598.6	2104.1	2243.2	2711.9	3008.1	3090.5	3546.3
32.5°	5107.0	5086.4	4862.3	4228.8	3342.9	2480.1	2317.9	2753.1	3041.5	3121.4	3636.5
35°	5738.0	5665.9	5439.2	4867.5	3958.4	3046.7	2575.4	2948.8	3188.3	3283.6	3765.2
37.5°	6049.6	6080.5	5949.2	5452.1	4633.1	3572.1	2897.3	2948.8	3234.7	3345.4	3973.8
40°	6291.7	6384.4	6335.5	6175.8	5302.7	4164.4	3252.7	3131.7	3469.0	3677.7	4365.3
42.5°	6582.7	6538.9	6827.4	6680.6	6178.4	4911.3	3876.0	3566.9	4022.8	4223.6	4952.5
45°	6737.2	6904.6	7123.5	7311.5	6989.6	5843.6	4689.8	4337.0	4870.1	5125.0	5825.5
47.5°	7133.8	7200.8	7556.2	7793.1	7648.9	6909.8	5926.0	5462.4	5936.3	6338.0	6824.8
50°	7365.6	7275.5	7772.5	8133.1	8215.5	7793.1	7033.4	6672.8	7203.4	7715.9	7759.6
52.5°	7162.2	7419.7	7916.7	8563.2	8792.4	8581.2	8334.0	8176.9	8550.3	9024.2	8813.0
55°	6448.8	6623.9	7834.3	9034.5	9773.6	9675.7	9904.9	9801.9	10177.9	10680.1	10044.0
57.5°	5874.5	6093.4	7157.0	9279.1	10687.9	10976.3	11264.8	11200.4	11653.6	12233.1	11087.1
60°	5516.5	5642.7	6667.7	9217.3	11228.7	12320.7	12972.2	12519.0	13258.1	13701.1	11903.5
62.5°	4895.8	4975.7	5954.3	8398.3	11390.9	13271.0	14375.8	13760.3	14401.6	14942.4	12490.6
65°	3924.9	4141.2	4949.9	7172.5	10319.6	13446.1	15251.5	14527.8	15148.4	15503.8	12668.3
66°	3572.1	3729.2	4470.9	6523.5	9709.2	13155.1	15104.7	14687.4	15256.6	15581.1	12395.4
67.5°	2964.3	3100.8	3690.5	5598.9	8460.2	12513.8	15207.7	14579.3	15339.0	15140.7	12029.6
70°	1962.4	2050.0	2523.9	3785.8	5892.5	10237.2	14105.4	13734.6	13484.7	12740.5	9405.3
72.5°	916.8	1043.0	1576.1	2294.7	3456.2	7162.2	11501.7	11004.6	9456.8	8267.0	5933.7
75°	414.6	471.3	865.3	1316.0	1550.4	3711.1	7419.7	6701.2	4707.8	3909.4	2598.6
77.5°	224.1	255.0	422.4	625.8	564.0	1300.6	3672.5	3054.4	1483.4	1086.8	754.6
80°	172.6	203.5	352.8	358.0	208.6	337.4	1365.0	945.2	370.9	280.7	180.3
82.5°	90.1	128.8	278.1	231.8	105.6	136.5	422.4	262.7	115.9	92.7	77.3
85°	36.1	56.7	157.1	154.5	61.8	46.4	118.5	79.8	46.4	38.6	36.1
87.5°	2.6	2.6	85.0	59.2	38.6	12.9	18.0	18.0	23.2	20.6	25.8
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°	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9	2729.9
2.5°	2796.9	2827.8	2832.9	2917.9	2935.9	2917.9	2964.3	2956.5	2977.2	2961.7	2933.4
5°	2861.3	2905.0	2990.0	3054.4	3054.4	3002.9	2961.7	2907.6	2827.8	2807.2	2791.7
7.5°	2972.0	3111.1	3188.3	3147.1	3064.7	2871.6	2603.7	2408.0	2243.2	2181.4	2153.0
10°	3167.7	3245.0	3335.1	3167.7	2825.2	2415.7	1965.0	1668.9	1437.1	1385.6	1346.9
12.5°	3293.9	3417.5	3469.0	3054.4	2382.2	1771.9	1282.5	947.7	785.5	661.9	641.3
15°	3458.7	3600.4	3494.8	2747.9	1877.5	1161.5	664.5	414.6	337.4	316.8	316.8
17.5°	3572.1	3726.6	3389.2	2366.8	1331.5	618.1	329.6	285.9	280.7	283.3	278.1
20°	3770.4	3863.1	3229.5	1923.8	795.8	316.8	265.3	255.0	249.8	257.5	252.4
22.5°	3845.1	3930.0	2969.4	1393.3	358.0	211.2	198.3	190.6	195.7	193.2	190.6
25°	3839.9	3883.7	2541.9	798.4	105.6	82.4	74.7	74.7	69.5	72.1	69.5
27.5°	3878.5	3770.4	2062.9	236.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3899.1	3587.5	1468.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3909.4	3492.2	945.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3989.3	3301.6	404.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4043.4	3057.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4267.4	2979.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4558.4	2835.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4962.8	2621.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5498.5	2495.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5897.6	2297.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6405.0	2178.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7007.6	2183.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7556.2	2147.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7836.9	1836.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7777.7	1486.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7571.6	1166.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7430.0	1032.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6999.9	826.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5570.6	566.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3543.7	347.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1632.8	159.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	512.5	97.9	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.9	61.8	20.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.5	43.8	18.0	7.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.8	18.0	7.7	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.6	10.3	5.2	5.2	2.6	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)