

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: P482818

Luminaire Tested: **IFLD-M-SA4B-735-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482818
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

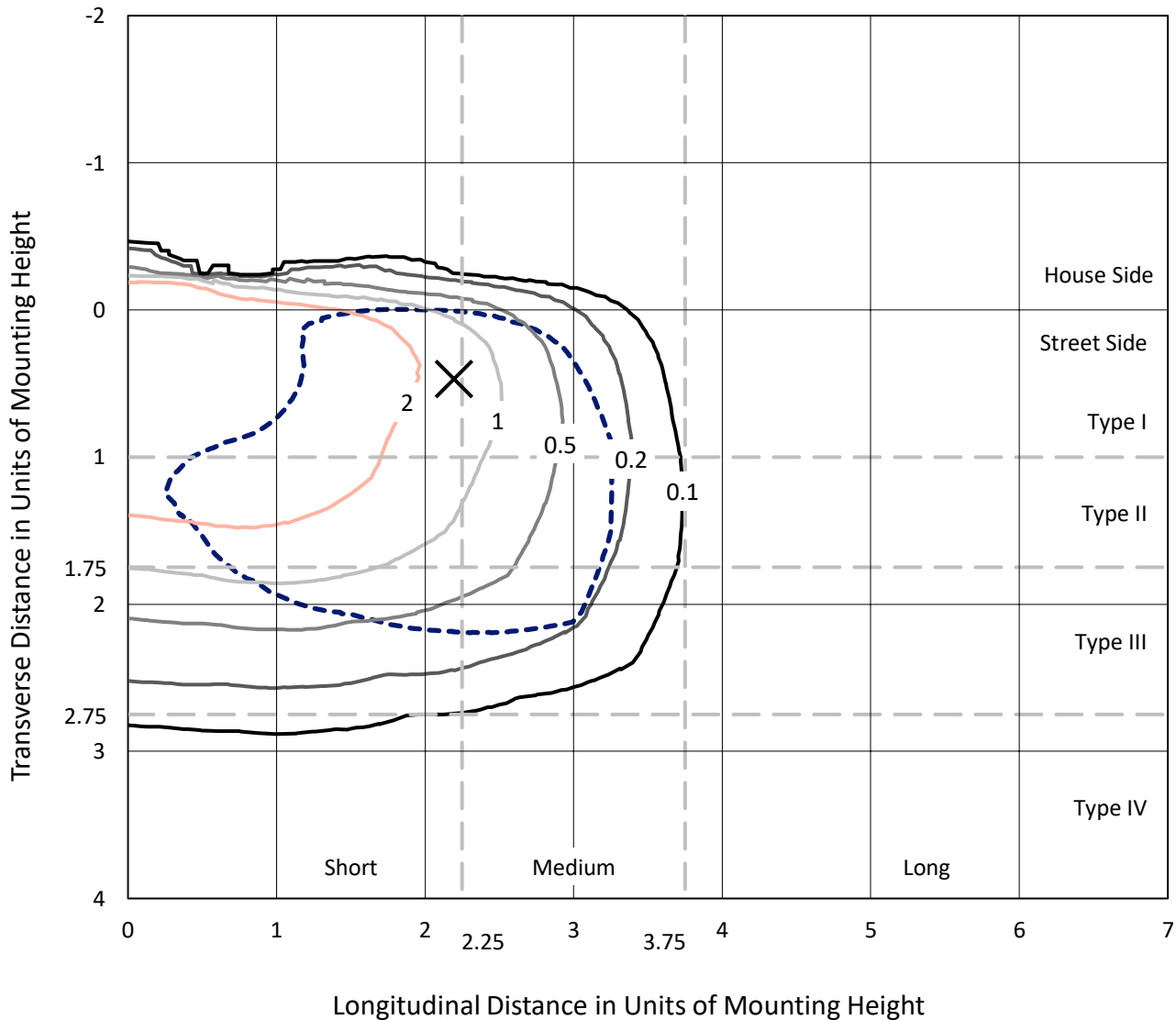
Lumens per Lamp: N/A
Luminaire Lumens: 16147.5 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

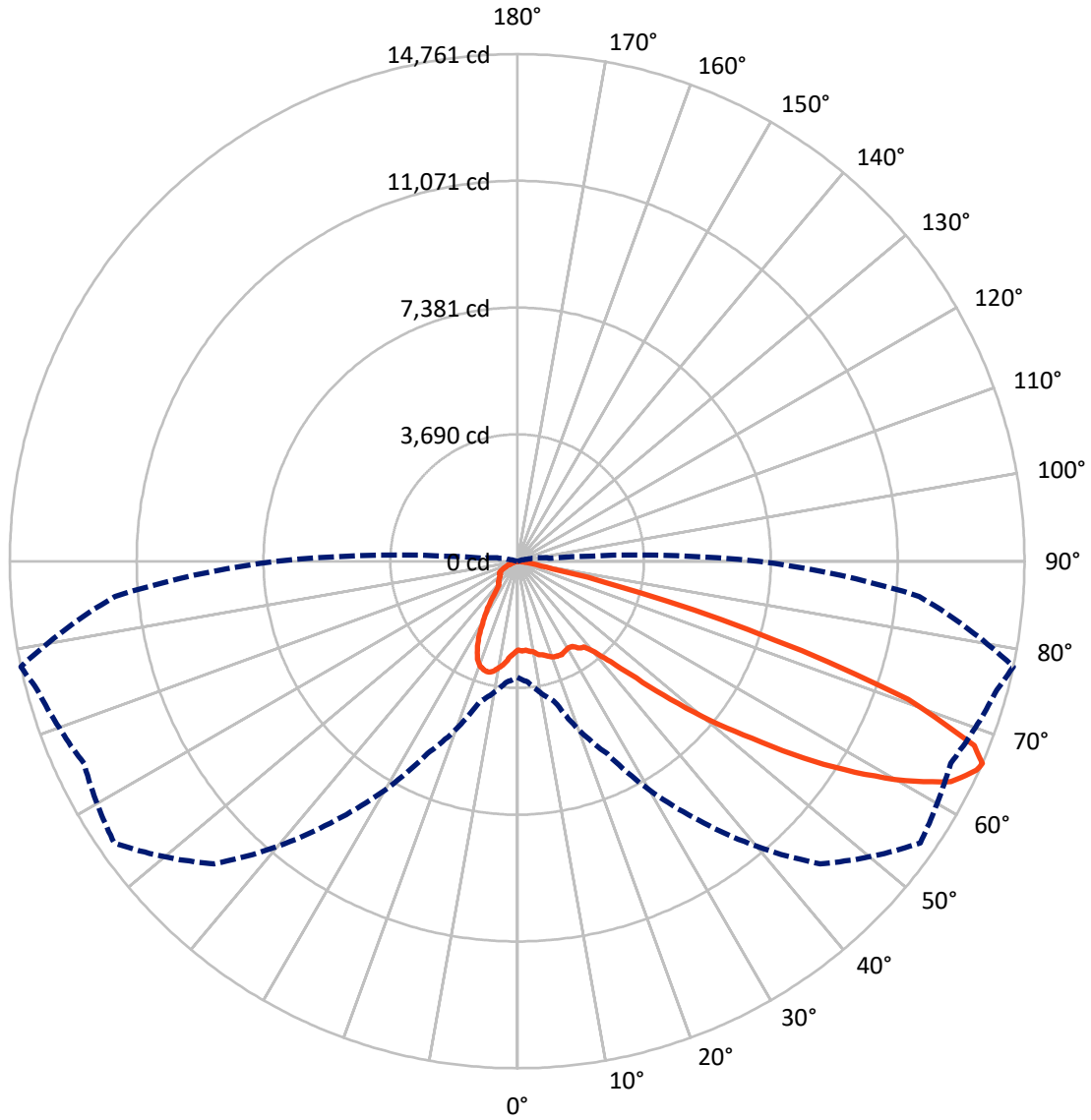
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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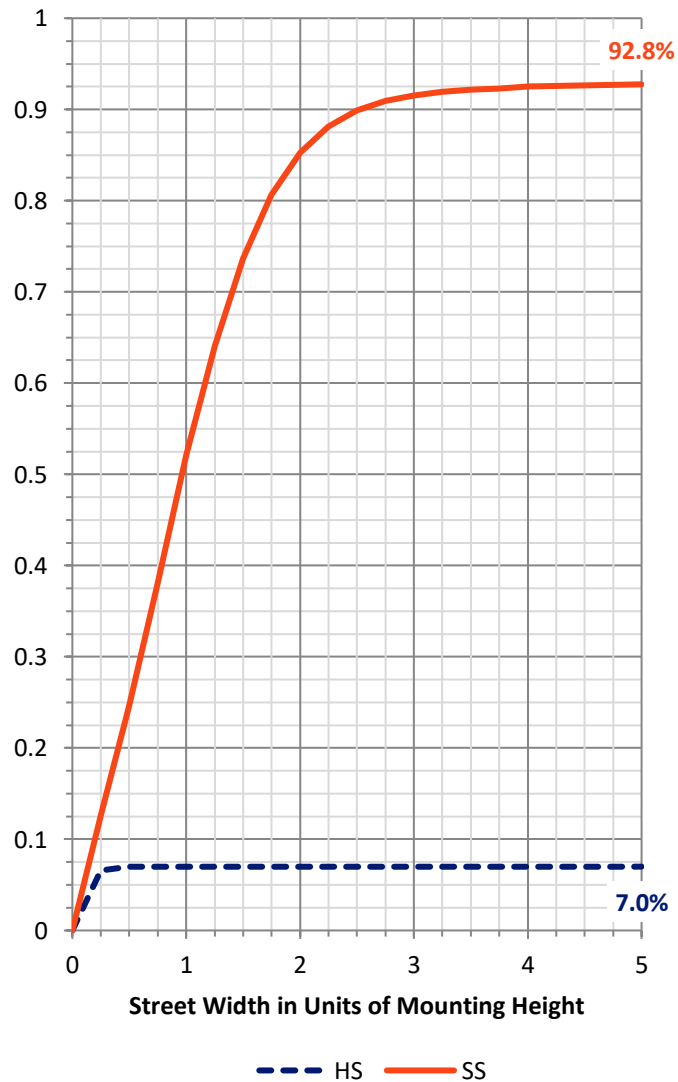
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.2	0.0	1135.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15012.2	0.0	15012.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	16147.5	0.0	16147.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	1.5
10°-20°	534.1	3.3
20°-30°	763.4	4.7
30°-40°	1306.8	8.1
40°-50°	2358.6	14.6
50°-60°	4033.4	25.0
60°-70°	4964.4	30.7
70°-80°	1876.8	11.6
80°-90°	73.3	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°	16147.5	100.0
0°-180°	16147.5	100.0

Coefficient of Utilization

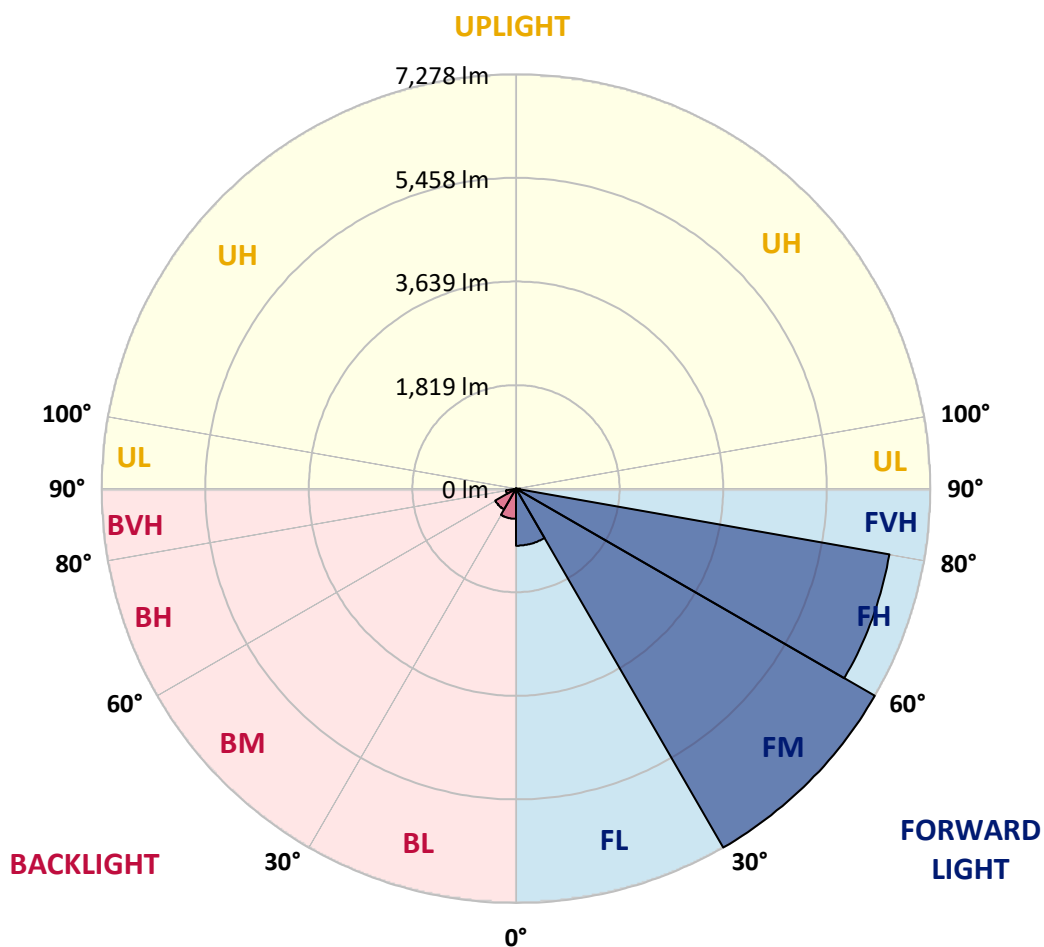


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.4	6.2			
FM (30°-60°)	7278.0	45.1			
FH (60°-80°)	6661.4	41.3			G3/7500
FVH (80°-90°)	70.4	0.4			G1/100
BL (0°-30°)	531.7	3.3	B2/1000		
BM (30°-60°)	420.8	2.6	B1/1000		
BH (60°-80°)	179.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3
2.5°	2378.9	2356.9	2378.9	2410.6	2427.7	2442.3	2493.6	2537.5	2583.9	2615.6	2605.8
5°	2205.7	2247.2	2252.0	2261.8	2288.6	2376.5	2405.7	2481.4	2596.1	2605.8	2649.7
7.5°	2069.0	2056.8	2088.6	2152.0	2220.3	2271.6	2356.9	2488.7	2608.3	2649.7	2735.1
10°	1871.4	1895.8	1930.0	1993.4	2076.4	2203.2	2354.5	2500.9	2671.7	2686.3	2844.9
12.5°	1764.1	1739.7	1793.3	1859.2	2000.7	2117.8	2303.3	2478.9	2710.7	2791.3	2974.2
15°	1676.2	1688.4	1739.7	1783.6	1900.7	2049.5	2266.7	2532.6	2776.6	2832.7	3110.9
17.5°	1639.6	1632.3	1671.3	1715.3	1859.2	2027.6	2252.0	2535.1	2835.2	2908.4	3203.6
20°	1656.7	1671.3	1659.1	1700.6	1790.9	1961.7	2274.0	2581.4	2879.1	2979.1	3303.6
22.5°	1925.1	1905.6	1808.0	1729.9	1734.8	1934.8	2256.9	2610.7	2918.1	2998.6	3371.9
25°	2625.3	2520.4	2278.9	1978.8	1781.1	1861.6	2237.4	2600.9	2910.8	3010.8	3413.4
27.5°	3330.5	3240.2	3003.5	2537.5	1969.0	1832.4	2169.1	2608.3	2874.2	2966.9	3345.1
30°	4074.6	4123.4	3772.1	3218.2	2461.9	1993.4	2125.2	2569.2	2849.8	2927.9	3359.7
32.5°	4838.3	4818.8	4606.5	4006.3	3167.0	2349.6	2195.9	2608.3	2881.5	2957.2	3445.1
35°	5436.1	5367.8	5153.1	4611.4	3750.1	2886.4	2439.9	2793.7	3020.6	3110.9	3567.1
37.5°	5731.3	5760.6	5636.2	5165.3	4389.4	3384.1	2744.9	2793.7	3064.5	3169.4	3764.8
40°	5960.7	6048.5	6002.2	5850.9	5023.8	3945.3	3081.6	2966.9	3286.6	3484.2	4135.6
42.5°	6236.4	6194.9	6468.2	6329.1	5853.3	4652.9	3672.1	3379.3	3811.1	4001.4	4691.9
45°	6382.8	6541.4	6748.8	6926.9	6621.9	5536.1	4443.1	4108.8	4613.9	4855.4	5519.1
47.5°	6758.5	6822.0	7158.7	7383.2	7246.5	6546.3	5614.2	5175.0	5624.0	6004.6	6465.7
50°	6978.1	6892.7	7363.6	7705.2	7783.3	7383.2	6663.4	6321.8	6824.4	7310.0	7351.4
52.5°	6785.4	7029.4	7500.3	8112.7	8329.8	8129.8	7895.5	7746.7	8100.5	8549.4	8349.4
55°	6109.5	6275.4	7422.2	8559.2	9259.4	9166.7	9383.9	9286.3	9642.5	10118.3	9515.6
57.5°	5565.4	5772.8	6780.5	8791.0	10125.6	10398.9	10672.1	10611.1	11040.6	11589.5	10503.8
60°	5226.3	5345.8	6316.9	8732.4	10638.0	11672.5	12289.8	11860.4	12560.6	12980.3	11277.2
62.5°	4638.3	4713.9	5641.1	7956.5	10791.7	12572.8	13619.5	13036.4	13643.9	14156.3	11833.5
65°	3718.4	3923.4	4689.5	6795.1	9776.7	12738.7	14449.1	13763.5	14351.5	14688.2	12001.9
66°	3384.1	3533.0	4235.7	6180.3	9198.4	12463.0	14310.0	13914.8	14454.0	14761.4	11743.3
67.5°	2808.3	2937.6	3496.4	5304.4	8015.1	11855.5	14407.6	13812.3	14532.1	14344.2	11396.8
70°	1859.2	1942.2	2391.1	3586.7	5582.5	9698.6	13363.4	13012.0	12775.3	12070.2	8910.5
72.5°	868.6	988.2	1493.2	2174.0	3274.4	6785.4	10896.6	10425.7	8959.3	7832.1	5621.5
75°	392.8	446.5	819.8	1246.8	1468.8	3515.9	7029.4	6348.6	4460.1	3703.8	2461.9
77.5°	212.3	241.6	400.1	592.9	534.3	1232.2	3479.3	2893.7	1405.4	1029.6	714.9
80°	163.5	192.8	334.3	339.1	197.6	319.6	1293.1	895.4	351.3	265.9	170.8
82.5°	85.4	122.0	263.5	219.6	100.0	129.3	400.1	248.9	109.8	87.8	73.2
85°	34.2	53.7	148.8	146.4	58.6	43.9	112.2	75.6	43.9	36.6	34.2
87.5°	2.4	2.4	80.5	56.1	36.6	12.2	17.1	17.1	22.0	19.5	24.4
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°	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3	2586.3
2.5°	2649.7	2679.0	2683.9	2764.4	2781.5	2764.4	2808.3	2801.0	2820.5	2805.9	2779.1
5°	2710.7	2752.2	2832.7	2893.7	2893.7	2844.9	2805.9	2754.7	2679.0	2659.5	2644.9
7.5°	2815.7	2947.4	3020.6	2981.6	2903.5	2720.5	2466.7	2281.3	2125.2	2066.6	2039.8
10°	3001.1	3074.3	3159.7	3001.1	2676.6	2288.6	1861.6	1581.1	1361.5	1312.7	1276.1
12.5°	3120.6	3237.8	3286.6	2893.7	2256.9	1678.7	1215.1	897.9	744.2	627.1	607.5
15°	3276.8	3411.0	3311.0	2603.4	1778.7	1100.4	629.5	392.8	319.6	300.1	300.1
17.5°	3384.1	3530.5	3210.9	2242.3	1261.4	585.6	312.3	270.8	265.9	268.4	263.5
20°	3572.0	3659.9	3059.6	1822.6	753.9	300.1	251.3	241.6	236.7	244.0	239.1
22.5°	3642.8	3723.3	2813.2	1320.0	339.1	200.1	187.9	180.6	185.4	183.0	180.6
25°	3637.9	3679.4	2408.2	756.4	100.0	78.1	70.8	70.8	65.9	68.3	65.9
27.5°	3674.5	3572.0	1954.4	224.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3694.0	3398.8	1390.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3703.8	3308.5	895.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3779.4	3128.0	383.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3830.7	2896.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4042.9	2823.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4318.6	2686.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4701.7	2483.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5209.2	2364.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5587.4	2176.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6068.0	2064.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6639.0	2069.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7158.7	2034.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7424.6	1739.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7368.5	1407.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7173.3	1105.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7039.1	978.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6631.7	783.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5277.5	536.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3357.3	329.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1546.9	151.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	485.5	92.7	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.9	58.6	19.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.9	41.5	17.1	7.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.5	17.1	7.3	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.6	9.8	4.9	4.9	2.4	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)