

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: P481649

Luminaire Tested: **IFLD-M-SA4C-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481649
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

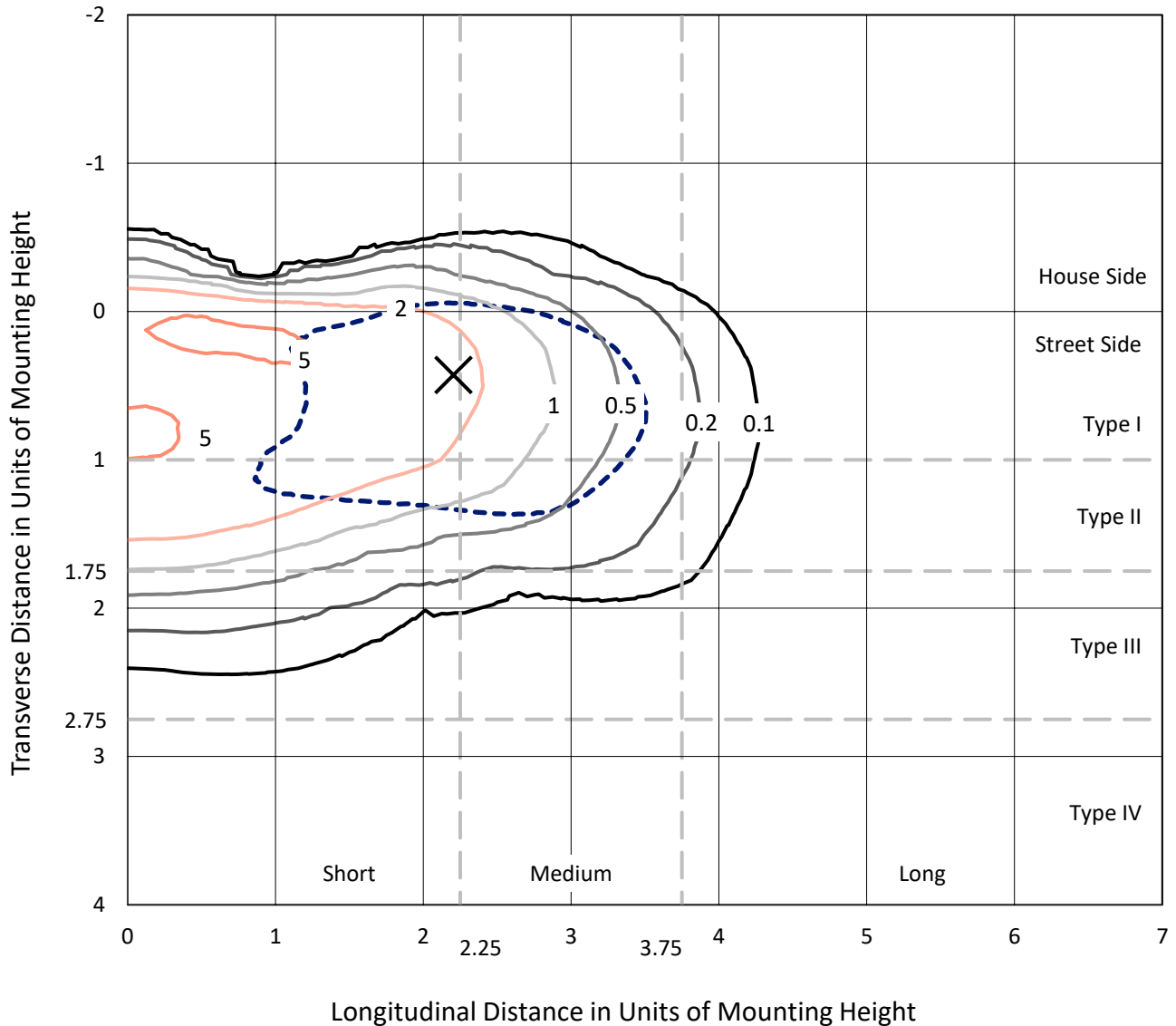
Lumens per Lamp: N/A
Luminaire Lumens: 20194.2 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

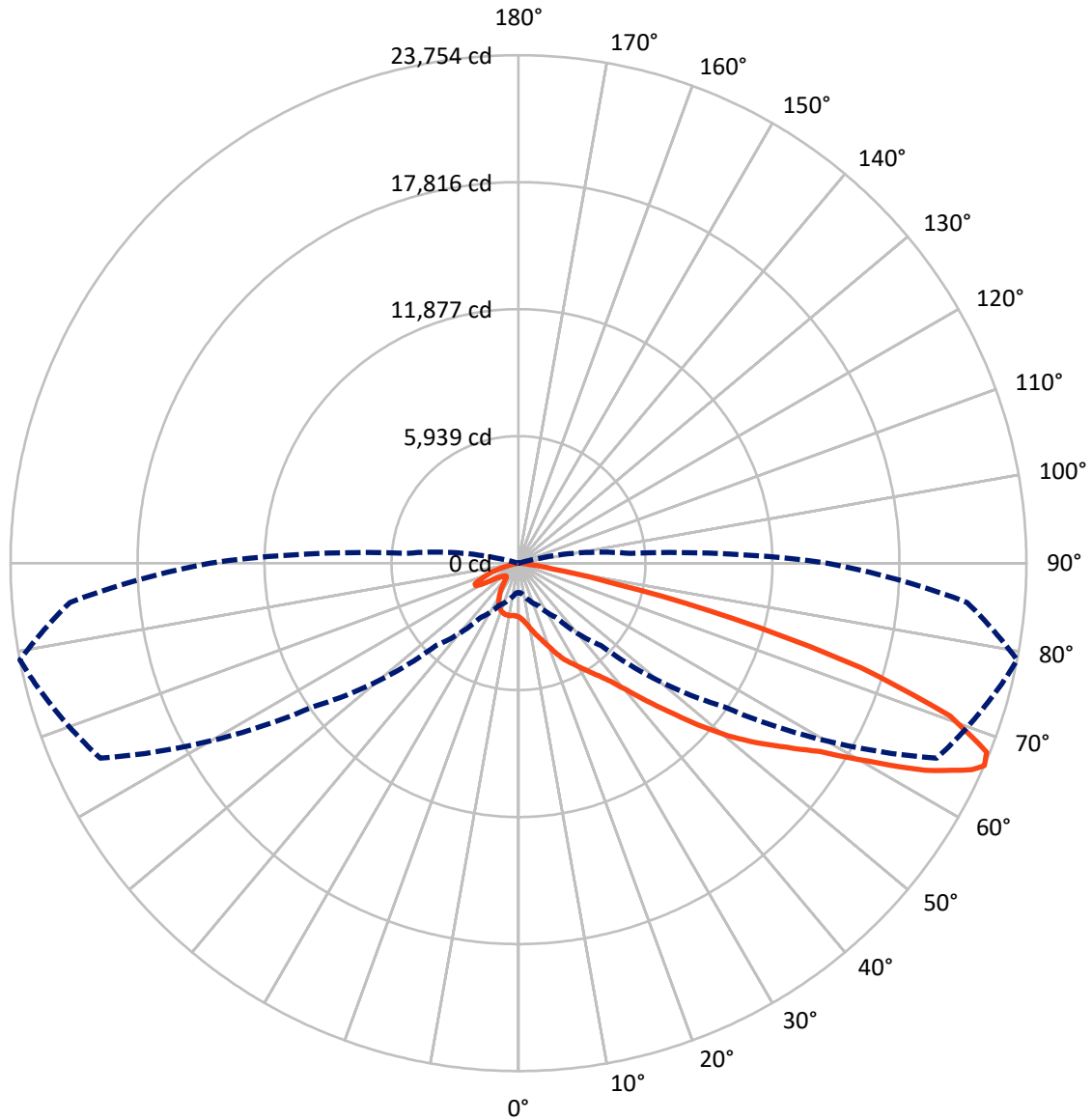
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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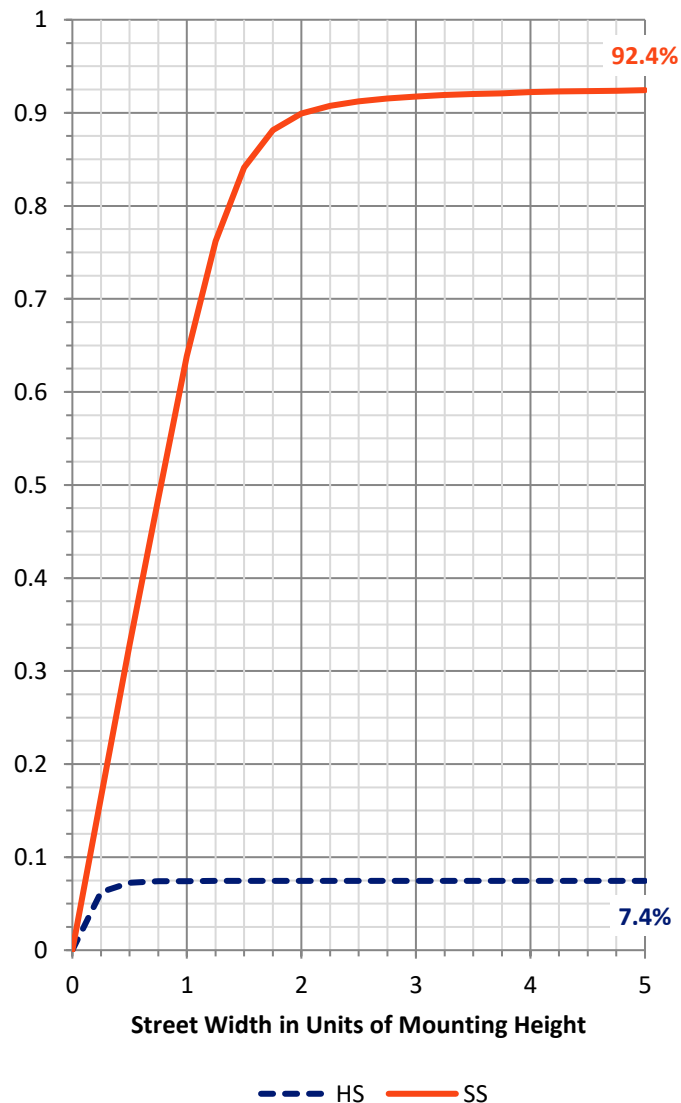
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1516.3	0.0	1516.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18677.9	0.0	18677.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	20194.2	0.0	20194.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.2
10°-20°	653.9	3.2
20°-30°	1086.3	5.4
30°-40°	1865.9	9.2
40°-50°	3380.3	16.7
50°-60°	5343.3	26.5
60°-70°	5437.2	26.9
70°-80°	2073.5	10.3
80°-90°	116.2	0.6
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°	20194.2	100.0
0°-180°	20194.2	100.0

Coefficient of Utilization



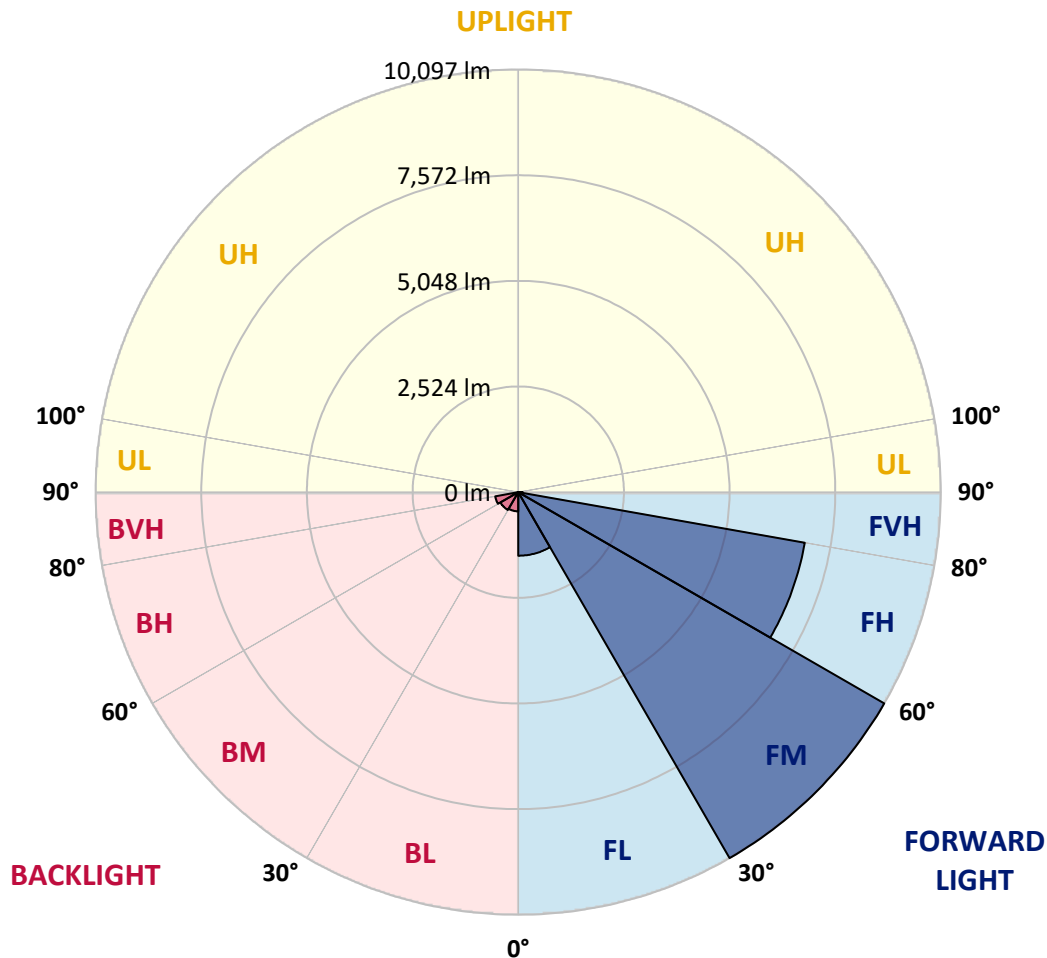
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.3	7.5			
FM (30°-60°)	10096.7	50.0			
FH (60°-80°)	6951.7	34.4			G3/7500
FVH (80°-90°)	110.3	0.5			G2/225
BL (0°-30°)	458.6	2.3	B1/500		
BM (30°-60°)	492.8	2.4	B1/1000		
BH (60°-80°)	559.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2845.5	2842.4	2830.0	2808.2	2780.1	2770.8	2730.3	2674.3	2643.2	2608.9	2593.4
5°	3041.7	3026.1	3063.5	3047.9	3054.1	2979.4	2929.6	2889.1	2770.8	2724.1	2649.4
7.5°	3085.2	3100.8	3097.7	3122.6	3147.5	3175.5	3141.3	3082.1	2963.8	2895.3	2814.4
10°	3085.2	3079.0	3103.9	3138.2	3209.8	3272.0	3365.4	3287.6	3197.3	3116.4	2970.1
12.5°	3029.2	3019.9	3044.8	3116.4	3244.0	3371.7	3474.4	3549.1	3421.5	3356.1	3166.2
15°	2858.0	2848.6	2951.4	3079.0	3247.1	3455.7	3670.5	3792.0	3704.8	3602.0	3390.3
17.5°	2646.3	2658.7	2767.7	2979.4	3247.1	3496.2	3770.2	4034.8	4022.3	3891.6	3670.5
20°	2574.7	2584.0	2693.0	2845.5	3150.6	3524.2	3925.8	4299.4	4374.1	4218.5	3928.9
22.5°	2711.7	2702.3	2711.7	2805.1	3085.2	3499.3	4028.6	4601.4	4735.3	4613.9	4268.3
25°	3178.6	3172.4	3094.6	2951.4	3047.9	3443.3	4081.5	4800.7	5108.9	4996.8	4542.3
27.5°	3863.6	3838.7	3717.2	3418.4	3222.2	3477.5	4168.7	4993.7	5435.8	5308.1	4788.2
30°	4598.3	4539.1	4380.4	4006.8	3673.7	3605.2	4218.5	5136.9	5800.0	5638.1	5003.0
32.5°	5105.8	5183.6	5133.8	4754.0	4243.4	3900.9	4299.4	5317.5	6136.2	6030.4	5370.4
35°	5890.3	5980.6	5772.0	5435.8	4922.1	4371.0	4470.6	5463.8	6653.0	6475.6	5712.8
37.5°	6880.3	6948.8	6799.4	6161.2	5619.4	4950.1	4822.4	5768.9	7098.2	7014.2	6151.8
40°	7378.4	7708.4	7496.7	6920.8	6338.6	5759.5	5404.6	6126.9	7873.4	7805.0	6758.9
42.5°	8066.5	8231.5	8122.5	7696.0	7088.9	6625.0	6123.8	6824.3	8813.7	8813.7	7580.8
45°	8795.0	8801.2	8795.0	8446.3	7907.7	7668.0	7095.1	7699.1	9825.5	9937.5	8564.6
47.5°	9392.7	9579.5	9564.0	9355.4	8938.2	8847.9	8066.5	8695.4	11095.7	11291.8	9523.5
50°	9700.9	9909.5	9971.8	10080.8	10062.1	10252.0	9128.1	9850.4	12191.5	12674.1	10756.3
52.5°	9616.9	9632.4	10015.4	10445.0	11129.9	11662.3	10407.6	11161.1	13474.2	13950.5	11709.0
55°	8928.8	8869.7	9657.4	10149.2	11565.8	12524.7	12179.1	12795.5	14473.6	15199.0	12692.8
57.5°	7418.9	7434.5	8163.0	9162.3	11242.0	12867.1	14072.0	14931.2	15874.5	16606.2	14075.1
60°	5121.3	5102.6	5918.3	7073.3	9339.8	12228.9	15161.6	17698.9	17748.7	18785.4	16556.3
62.5°	2879.8	2886.0	3505.5	4492.4	6534.7	9993.6	15108.7	20637.8	20426.1	21335.2	19377.0
65°	1631.4	1671.8	2098.3	2661.8	3913.4	6709.1	12994.8	21808.4	22490.2	23299.7	21089.3
66°	1379.2	1407.2	1771.4	2198.0	3122.6	5442.0	11696.5	21581.2	23137.8	23754.2	21055.0
67.5°	1067.9	1105.2	1410.3	1743.4	2291.4	3767.1	9414.5	20451.0	23256.1	23617.2	20460.4
70°	731.6	756.5	990.0	1323.1	1566.0	1927.1	5628.8	16908.1	21101.7	21406.8	17783.0
72.5°	513.7	526.1	694.3	1002.5	1204.8	1102.1	2792.6	12029.7	16148.5	16743.1	13832.2
75°	370.5	382.9	476.3	719.2	940.2	722.3	1279.6	7683.5	9903.3	10370.3	8331.1
77.5°	267.7	283.3	323.8	463.9	681.8	507.5	628.9	4013.0	4669.9	4589.0	3583.4
80°	161.9	177.5	239.7	298.9	498.1	358.0	345.6	1674.9	1656.3	1572.2	1127.0
82.5°	74.7	87.2	127.6	202.4	348.7	249.1	165.0	597.7	523.0	479.4	317.6
85°	21.8	28.0	74.7	152.6	177.5	121.4	99.6	205.5	214.8	183.7	105.9
87.5°	0.0	3.1	34.2	37.4	52.9	40.5	37.4	52.9	99.6	80.9	34.2
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°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2537.3	2515.5	2462.6	2381.6	2310.0	2272.7	2219.8	2173.1	2148.2	2145.0	2141.9
5°	2599.6	2540.4	2412.8	2266.5	2157.5	2039.2	1958.2	1899.1	1843.1	1790.1	1821.3
7.5°	2683.6	2590.2	2381.6	2191.7	1955.1	1802.6	1659.4	1575.3	1525.5	1478.8	1472.6
10°	2814.4	2696.1	2359.9	2017.4	1746.5	1522.4	1376.1	1254.6	1186.2	1105.2	1136.3
12.5°	2991.8	2780.1	2278.9	1858.6	1509.9	1273.3	1064.7	868.6	759.6	675.6	678.7
15°	3169.3	2892.2	2204.2	1665.6	1295.1	983.8	678.7	544.8	513.7	495.0	501.2
17.5°	3343.6	2982.5	2089.0	1469.5	1049.2	625.8	495.0	467.0	451.4	432.7	432.7
20°	3555.3	3041.7	1945.8	1288.9	722.3	463.9	423.4	404.7	379.8	354.9	358.0
22.5°	3760.8	3091.5	1780.8	1058.5	485.7	401.6	354.9	330.0	308.2	283.3	283.3
25°	3966.3	3107.0	1566.0	759.6	392.3	320.7	277.1	242.8	221.0	199.2	202.4
27.5°	4106.4	3010.5	1363.6	485.7	314.4	242.8	193.0	165.0	146.3	124.5	124.5
30°	4187.3	2833.1	1145.7	342.5	236.6	165.0	115.2	87.2	68.5	52.9	49.8
32.5°	4268.3	2689.9	899.7	261.5	155.7	87.2	43.6	15.6	0.0	0.0	0.0
35°	4430.2	2528.0	604.0	146.3	52.9	3.1	0.0	0.0	0.0	0.0	0.0
37.5°	4532.9	2303.8	277.1	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4791.3	2191.7	68.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5211.6	2113.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5672.4	2082.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6285.7	2166.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6933.2	2394.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7643.1	2608.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8262.6	2867.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9402.1	3477.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11447.5	4676.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13751.3	5566.5	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14595.0	5544.7	59.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14445.6	5239.6	59.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13670.4	4654.3	52.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11740.1	3844.9	52.9	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8950.6	2995.0	49.8	12.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	5401.5	1594.0	40.5	15.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2151.3	560.4	31.1	12.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	582.2	168.1	18.7	12.5	9.3	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	152.6	62.3	15.6	12.5	6.2	3.1	0.0	0.0	0.0	0.0	0.0
85°	59.2	24.9	12.5	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0
87.5°	18.7	9.3	9.3	6.2	6.2	3.1	3.1	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)