

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: P476512

Luminaire Tested: **IFLD-L-SA8D-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

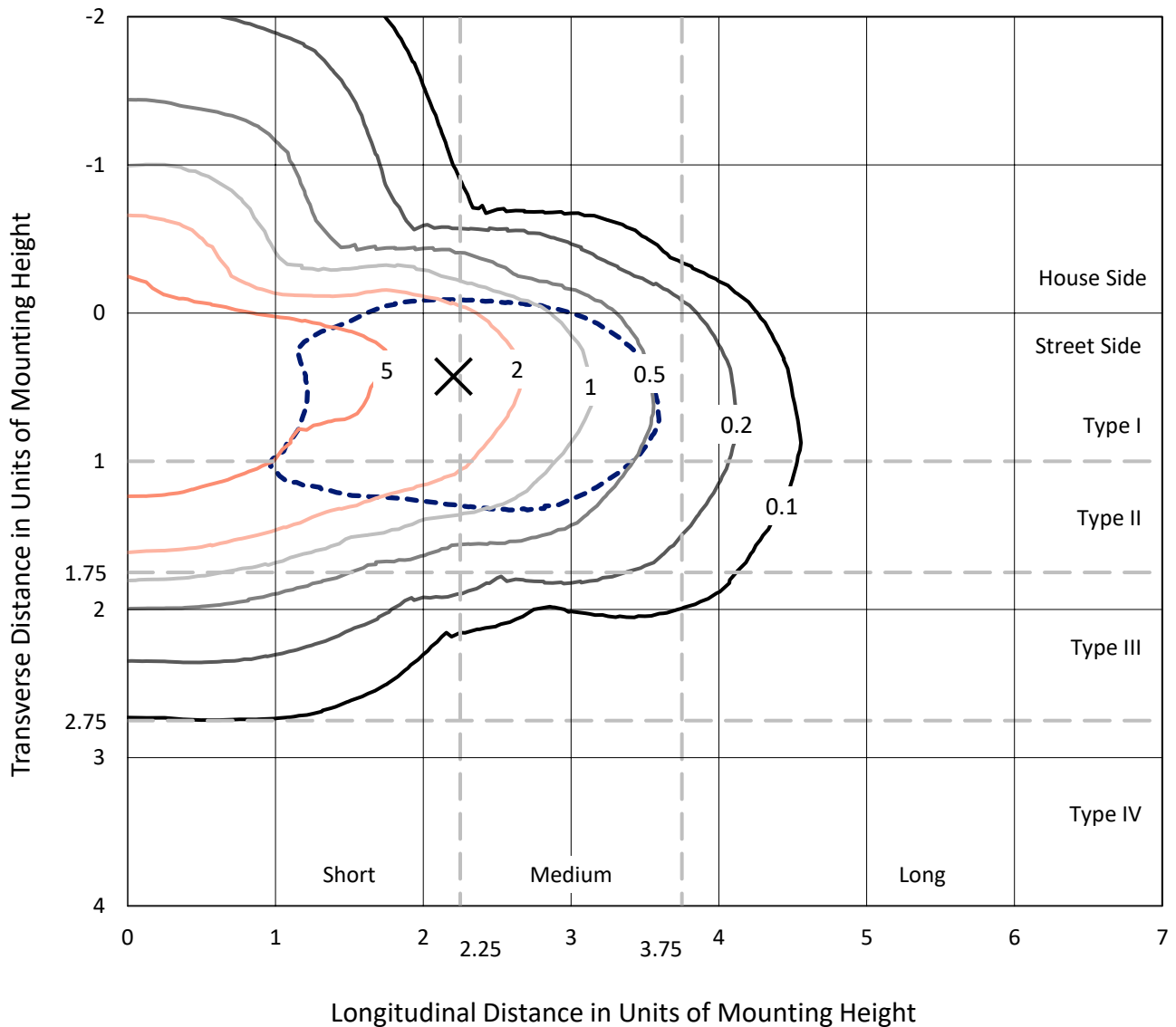
Lumens per Lamp: N/A
Luminaire Lumens: 46565.5 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

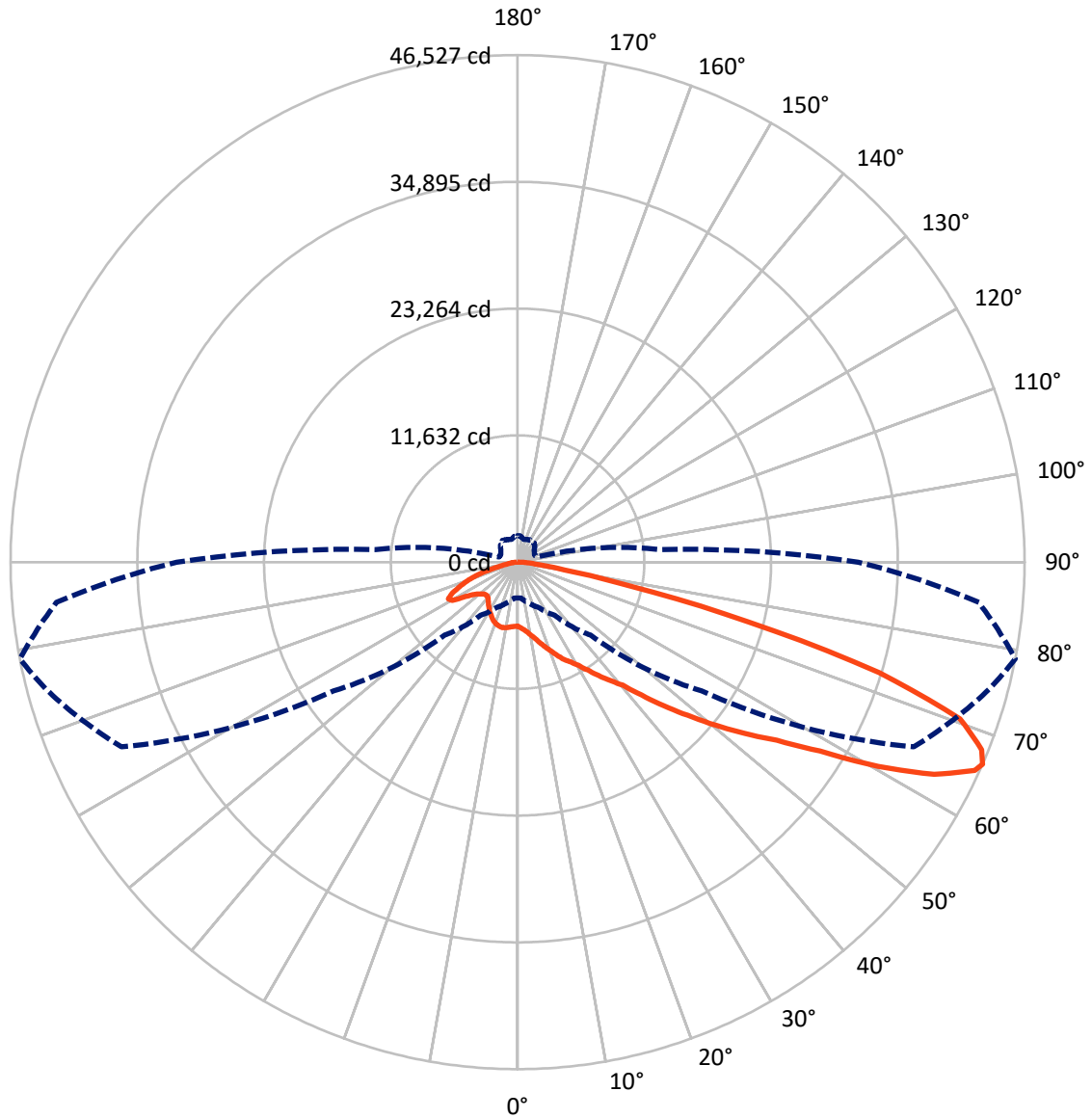
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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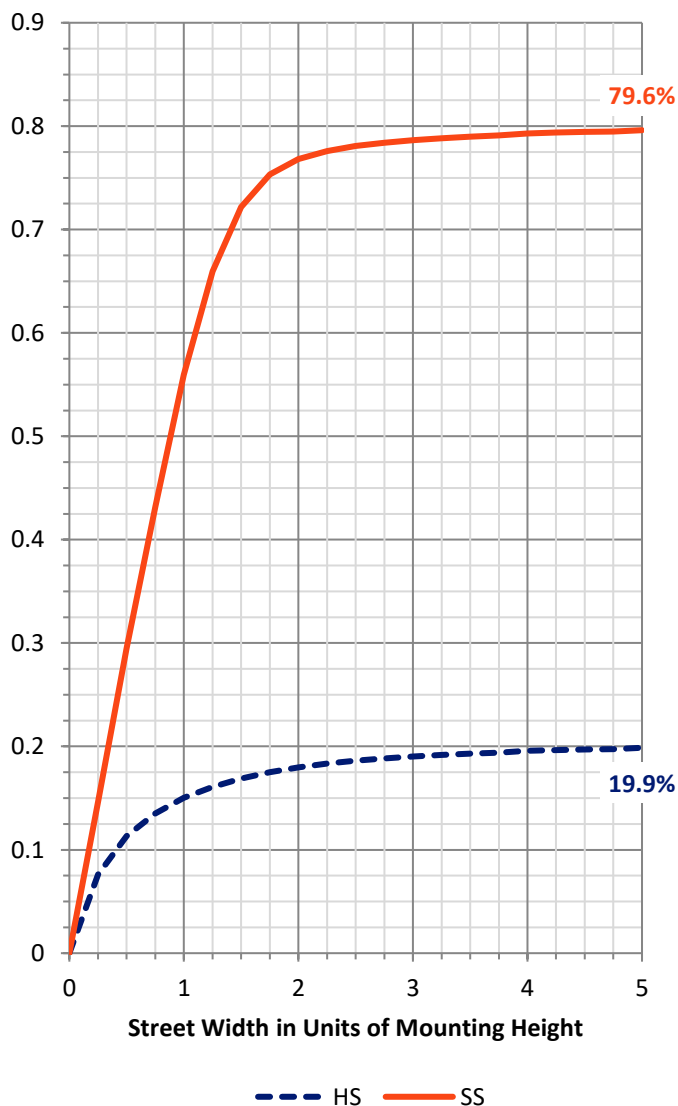
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9403.3	0.0	9403.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	37162.2	0.0	37162.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	46565.5	0.0	46565.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.2	1.2
10°-20°	1785.4	3.8
20°-30°	3064.6	6.6
30°-40°	4734.2	10.2
40°-50°	7583.1	16.3
50°-60°	11322.1	24.3
60°-70°	11633.4	25.0
70°-80°	5156.9	11.1
80°-90°	707.6	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°	46565.5	100.0
0°-180°	46565.5	100.0

Coefficient of Utilization

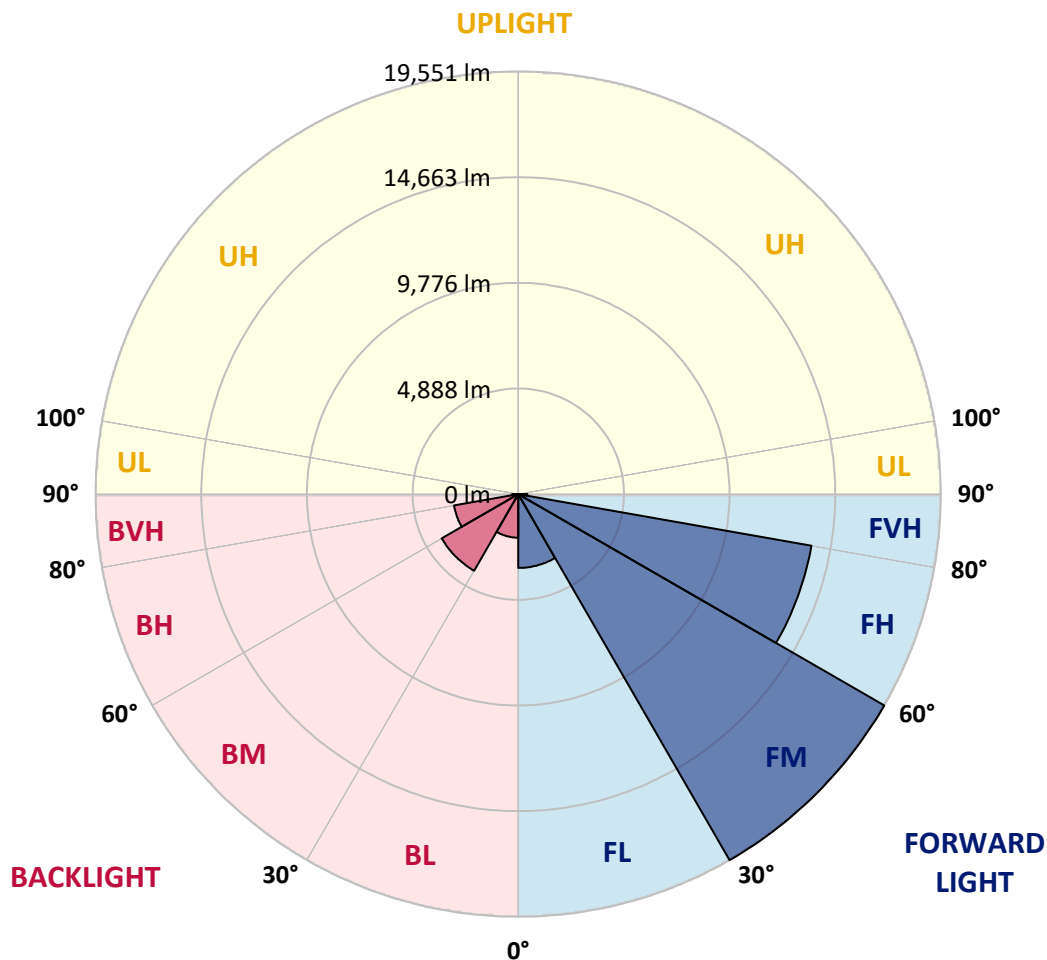


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3413.5	7.3			
FM (30°-60°)	19551.3	42.0			
FH (60°-80°)	13773.0	29.6			G5
FVH (80°-90°)	424.4	0.9			G3/500
BL (0°-30°)	2014.6	4.3	B3/2500		
BM (30°-60°)	4088.1	8.8	B3/5000		
BH (60°-80°)	3017.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	283.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9
2.5°	6253.8	6258.9	6258.9	6238.5	6243.6	6258.9	6202.6	6079.7	6079.7	6059.2	6023.3
5°	6638.0	6612.4	6576.5	6581.6	6561.1	6561.1	6499.7	6381.9	6279.4	6238.5	6130.9
7.5°	6689.2	6714.8	6709.7	6771.1	6801.9	6801.9	6832.6	6735.3	6581.6	6484.3	6376.8
10°	6791.6	6725.0	6719.9	6863.3	6909.4	7017.0	7139.9	7088.7	6960.6	6822.4	6678.9
12.5°	6853.1	6894.1	6894.1	6965.8	7073.3	7232.1	7447.2	7544.5	7344.8	7201.4	6981.1
15°	6945.3	6888.9	7052.8	7114.3	7319.2	7431.9	7739.2	7990.1	7857.0	7682.8	7334.5
17.5°	6986.3	6950.4	7042.6	7155.3	7503.6	7672.6	8046.5	8394.8	8282.1	8169.4	7810.9
20°	7196.3	7191.1	7232.1	7324.3	7575.3	7908.2	8374.3	8855.7	8896.7	8691.8	8205.3
22.5°	7708.4	7641.9	7641.9	7606.0	7713.6	8056.7	8686.7	9352.6	9537.0	9296.2	8650.9
25°	8179.7	8271.9	8215.5	8051.6	8010.6	8189.9	8912.1	9880.1	10126.0	9900.6	9255.3
27.5°	8784.0	8814.8	8912.1	8691.8	8410.1	8466.5	9157.9	10177.2	10684.3	10382.1	9598.4
30°	9654.8	9598.4	9577.9	9332.1	8963.3	8886.5	9439.6	10612.6	11416.7	10991.6	10003.1
32.5°	10243.8	10382.1	10376.9	10038.9	9593.3	9424.3	9787.9	11022.3	12200.3	11806.0	10750.8
35°	11411.6	11555.0	11442.3	10945.5	10423.0	10085.0	10289.9	11555.0	13096.7	12789.4	11386.0
37.5°	12902.0	13240.1	12999.4	12082.5	11345.0	10976.2	10986.5	12133.8	14013.5	13762.5	12067.2
40°	13931.5	14387.4	14054.5	13194.0	12410.3	12062.1	11923.8	12820.1	15109.6	14843.2	13132.5
42.5°	15206.9	15585.9	15411.8	14561.5	13644.7	13347.6	13071.1	13967.4	16784.4	16661.5	14500.1
45°	16600.0	16779.3	16723.0	16185.2	15165.9	15063.5	14454.0	15478.4	18756.4	18807.6	16210.8
47.5°	17895.9	17993.2	18100.8	17711.5	17076.4	17163.5	16046.9	17096.9	20671.9	21010.0	18116.1
50°	18228.8	18561.7	18812.7	19073.9	19212.2	19801.2	17803.7	19084.2	22874.4	23530.0	20236.6
52.5°	17890.8	17865.2	18628.3	19447.8	20830.7	22065.1	20195.6	21552.9	24820.7	26116.5	22177.8
55°	16354.2	16303.0	17532.2	18618.1	21317.3	23325.1	23611.9	24841.2	27171.6	28856.7	24805.3
57.5°	13665.2	13347.6	14689.6	16472.0	20262.2	23463.4	27043.6	29722.3	30787.7	32708.4	28815.8
60°	9183.5	9050.4	10336.0	12461.6	16451.5	21501.7	29097.5	35832.7	35884.0	38045.4	35038.9
62.5°	5654.6	5680.2	6504.8	8097.7	11519.1	17045.7	28211.4	40713.9	40724.1	42890.7	40160.7
65°	3698.0	3713.4	4379.2	5260.2	7196.3	11560.1	23330.2	41098.0	44089.2	46102.1	42506.6
66°	3293.4	3298.5	3872.1	4589.2	5961.9	9460.1	20605.4	40099.3	44847.3	46527.3	42475.8
67.5°	2776.1	2842.6	3303.6	3856.8	4650.7	6796.7	16349.1	37210.5	44458.0	45933.1	41512.9
70°	2171.7	2207.5	2571.2	3134.6	3488.0	3933.6	9716.2	30331.8	40693.4	43085.3	38009.5
72.5°	1741.4	1772.2	2048.8	2545.6	2832.4	2591.7	5290.9	22008.8	32145.0	34695.7	29896.5
75°	1470.0	1475.1	1608.3	2002.7	2330.5	1946.3	2817.0	14126.2	20625.9	21814.1	18315.9
77.5°	1188.3	1208.8	1301.0	1526.3	1874.6	1531.4	1680.0	7913.3	10356.5	10443.5	8466.5
80°	968.0	978.3	1034.6	1111.5	1429.0	1131.9	1137.1	3861.9	4440.7	4338.2	3441.9
82.5°	763.2	773.4	840.0	824.6	1050.0	809.3	706.8	1859.2	2043.6	2002.7	1582.7
85°	430.2	430.2	660.7	660.7	665.8	512.2	430.2	875.8	1080.7	1009.0	742.7
87.5°	138.3	143.4	199.8	210.0	332.9	230.5	210.0	327.8	512.2	450.7	266.3
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°	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9	5879.9
2.5°	6002.9	5920.9	5885.1	5767.2	5736.5	5659.7	5623.8	5577.7	5562.4	5495.8	5557.3
5°	6049.0	6023.3	5879.9	5731.4	5618.7	5567.5	5490.7	5388.2	5378.0	5285.8	5275.5
7.5°	6243.6	6156.5	5905.5	5746.8	5521.4	5393.4	5224.3	5173.1	5106.5	5075.8	5142.4
10°	6545.8	6325.5	5951.6	5552.1	5275.5	5121.9	4999.0	4963.1	4968.2	4947.7	4917.0
12.5°	6760.9	6550.9	5874.8	5388.2	5029.7	4881.2	4870.9	4906.8	4963.1	4937.5	4973.4
15°	7068.2	6673.8	5818.5	5116.8	4829.9	4789.0	4783.8	4891.4	4886.3	4886.3	4881.2
17.5°	7355.0	6796.7	5613.6	4881.2	4619.9	4650.7	4686.5	4681.4	4732.6	4753.1	4789.0
20°	7718.7	6940.2	5326.8	4645.6	4461.2	4450.9	4445.8	4450.9	4502.1	4532.9	4507.3
22.5°	8036.2	6970.9	5086.0	4420.2	4271.7	4230.7	4164.1	4230.7	4205.1	4215.3	4246.0
25°	8312.8	6976.0	4742.9	4251.2	4082.1	3990.0	3938.7	3933.6	3887.5	3882.4	3882.4
27.5°	8543.3	6801.9	4440.7	4015.6	3856.8	3769.7	3764.6	3708.2	3590.4	3513.6	3523.9
30°	8722.6	6668.7	4230.7	3810.7	3657.0	3641.7	3595.6	3467.5	3313.9	3216.5	3216.5
32.5°	9040.1	6402.4	3943.9	3600.7	3523.9	3503.4	3395.8	3283.1	3139.7	3047.5	3032.2
35°	9275.7	6156.5	3754.3	3421.4	3385.6	3344.6	3252.4	3129.5	3088.5	3068.0	3083.4
37.5°	9542.1	5879.9	3523.9	3267.8	3303.6	3226.8	3119.2	3062.9	3206.3	3170.5	3185.8
40°	9967.2	5685.3	3298.5	3175.6	3211.4	3124.4	2986.1	2965.6	3144.8	3016.8	2986.1
42.5°	10745.7	5680.2	3160.2	3037.3	3062.9	2996.3	2873.4	2863.1	2934.8	2781.2	2735.1
45°	11713.8	5859.4	3057.8	2934.8	2914.4	2904.1	2863.1	2817.0	2755.6	2555.8	2504.6
47.5°	12871.3	6151.4	3037.3	2781.2	2806.8	2893.9	2842.6	2724.8	2566.1	2438.0	2412.4
50°	14274.7	6755.8	2986.1	2668.5	2714.6	2852.9	2811.9	2648.0	2504.6	2422.7	2407.3
52.5°	15826.6	7518.9	2919.5	2494.4	2596.8	2817.0	2837.5	2683.9	2473.9	2402.2	2391.9
55°	17655.2	8645.8	2842.6	2304.9	2458.5	2781.2	2837.5	2581.4	2432.9	2432.9	2422.7
57.5°	21266.1	10674.0	2683.9	2130.7	2335.6	2714.6	2755.6	2586.6	2438.0	2438.0	2417.5
60°	26562.1	13839.3	2381.7	1997.5	2217.8	2622.4	2694.1	2509.7	2381.7	2412.4	2407.3
62.5°	30705.7	14802.3	2125.6	1869.5	2100.0	2453.4	2612.2	2427.8	2315.1	2427.8	2438.0
65°	31591.8	13829.1	1864.4	1731.2	1936.1	2289.5	2494.4	2310.0	2217.8	2438.0	2448.3
66°	31274.3	13071.1	1772.2	1690.2	1864.4	2207.5	2422.7	2269.0	2166.6	2427.8	2432.9
67.5°	29860.6	11934.0	1669.7	1603.2	1767.1	2089.7	2340.7	2212.7	2084.6	2397.0	2350.9
70°	26787.5	10120.9	1495.6	1449.5	1628.8	1895.1	2151.2	2069.2	1956.6	2207.5	2125.6
72.5°	20631.0	8087.5	1311.2	1316.3	1470.0	1695.3	1961.7	1905.3	1808.0	1936.1	1884.9
75°	12564.0	5168.0	1142.2	1152.4	1280.5	1505.8	1782.4	1741.4	1623.6	1695.3	1669.7
77.5°	5567.5	2560.9	962.9	983.4	1085.8	1326.6	1551.9	1485.3	1362.4	1377.8	1367.5
80°	2161.4	1213.9	783.6	809.3	875.8	1060.2	1285.6	1224.1	1116.6	1096.1	1085.8
82.5°	1039.7	676.1	604.4	614.6	640.2	845.1	1106.3	1029.5	886.1	793.9	793.9
85°	522.4	420.0	425.1	389.3	425.1	573.7	747.8	624.9	517.3	461.0	471.2
87.5°	210.0	210.0	210.0	179.3	189.5	271.5	348.3	235.6	215.1	128.0	128.0
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)