

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: P476785

Luminaire Tested: **IFLD-L-SA8D-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476785
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

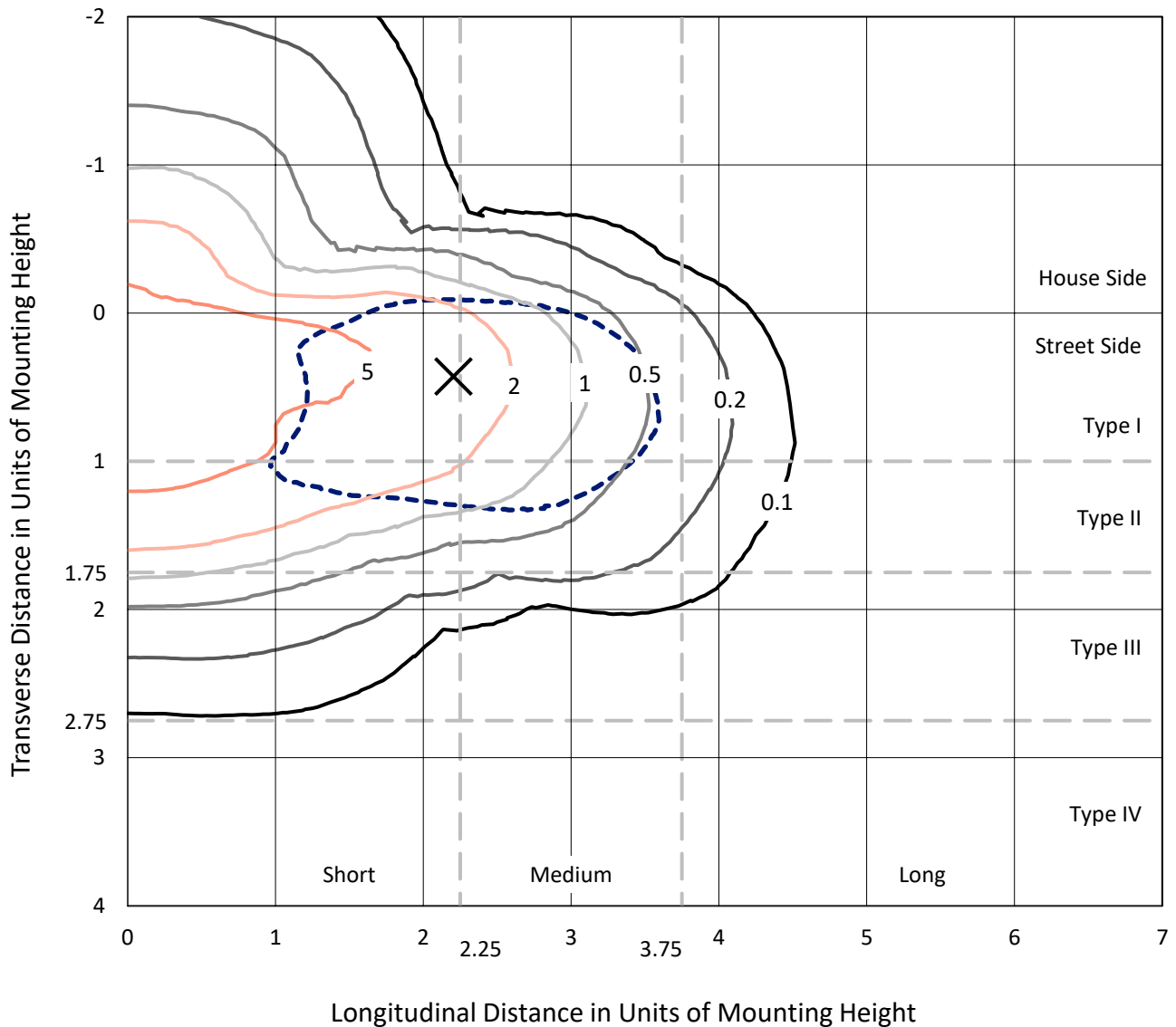
Lumens per Lamp: N/A
Luminaire Lumens: 44243.6 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

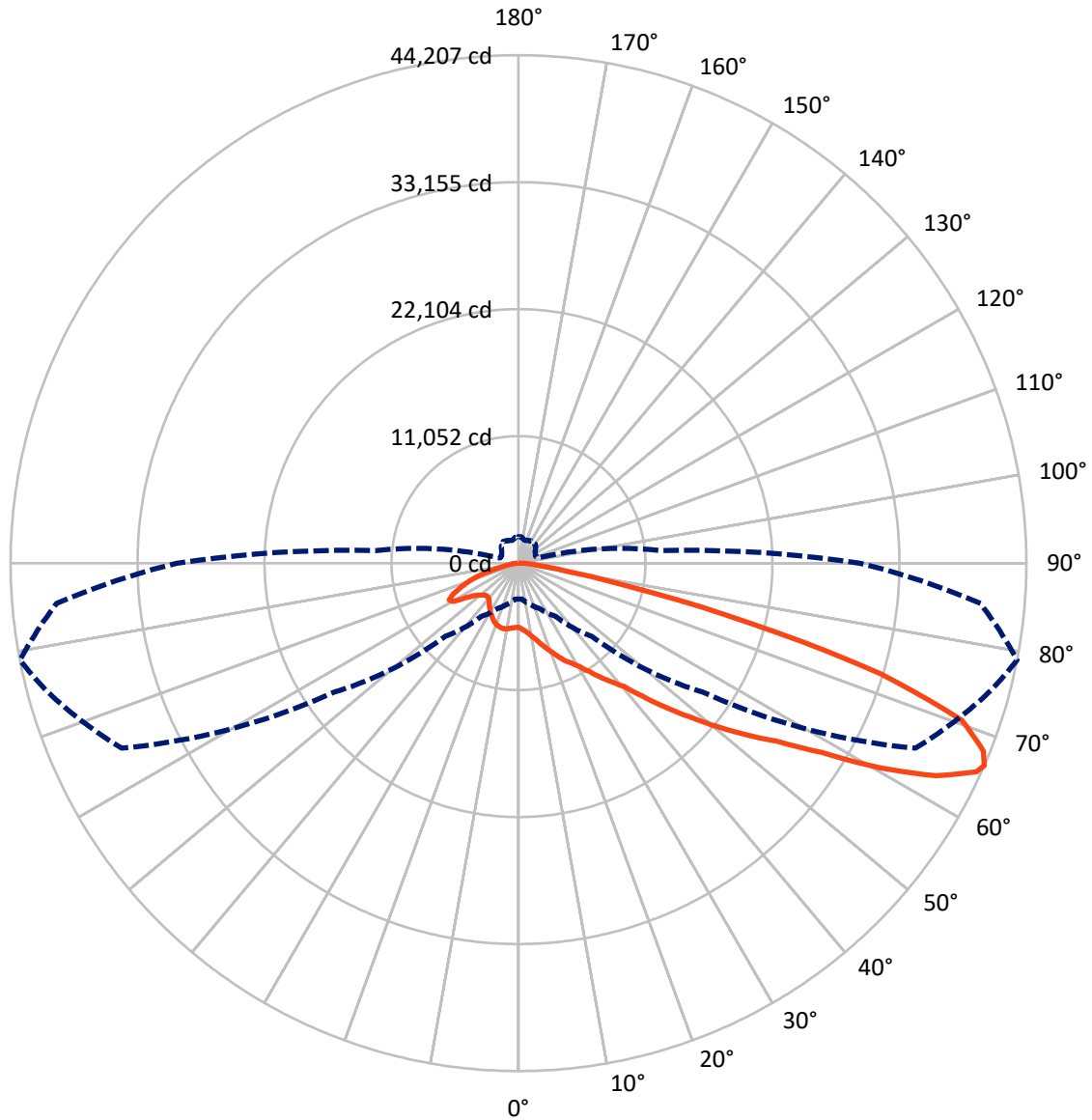
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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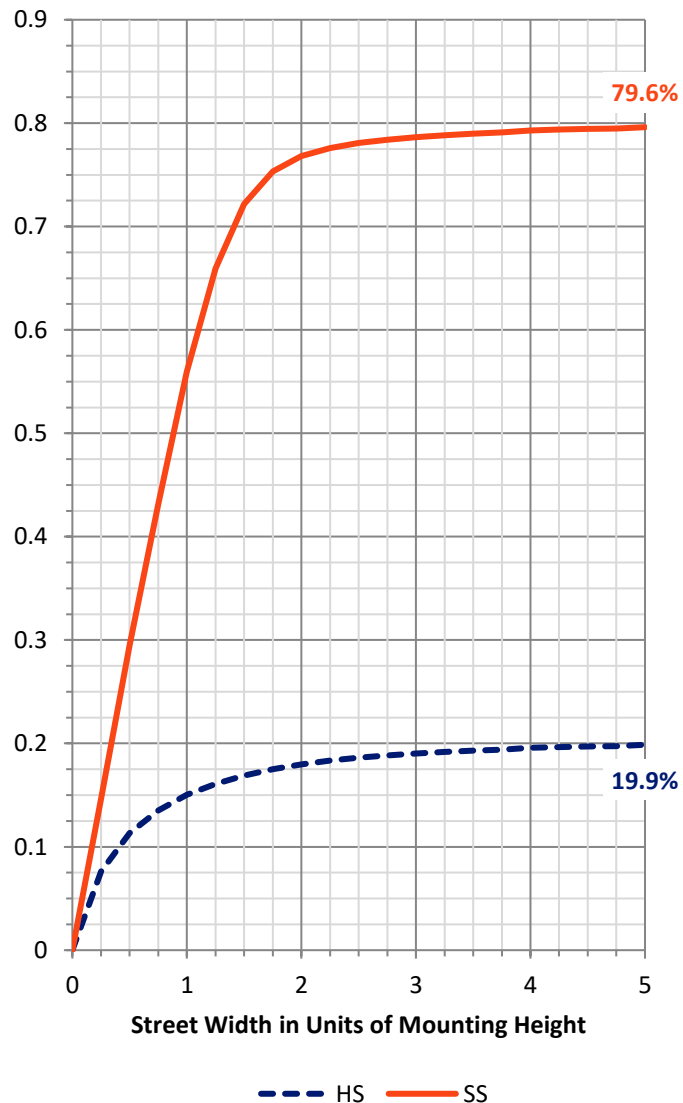
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8934.4	0.0	8934.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	35309.2	0.0	35309.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	44243.6	0.0	44243.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.3	1.2
10°-20°	1696.3	3.8
20°-30°	2911.8	6.6
30°-40°	4498.2	10.2
40°-50°	7205.0	16.3
50°-60°	10757.5	24.3
60°-70°	11053.4	25.0
70°-80°	4899.8	11.1
80°-90°	672.3	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°	44243.6	100.0
0°-180°	44243.6	100.0

Coefficient of Utilization



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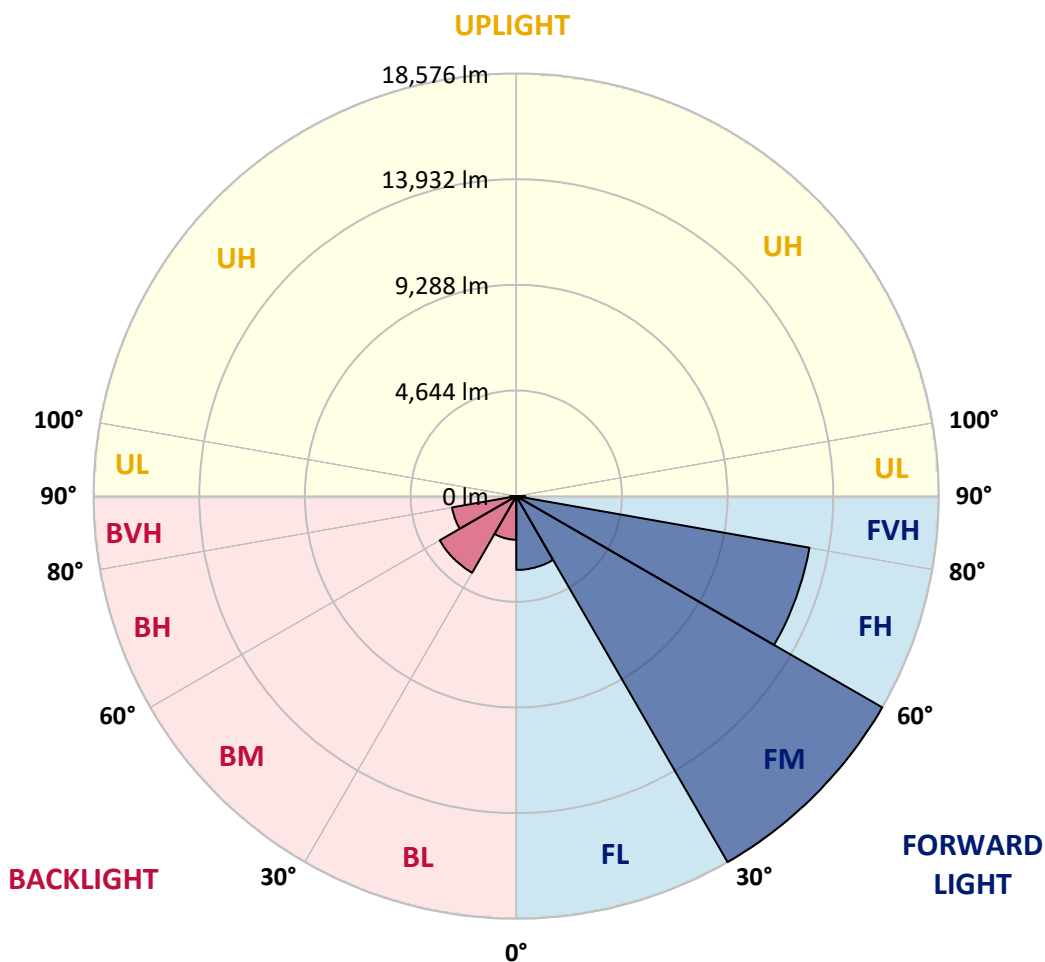
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.3	7.3			
FM (30°-60°)	18576.4	42.0			
FH (60°-80°)	13086.3	29.6			G5
FVH (80°-90°)	403.2	0.9			G3/500
BL (0°-30°)	1914.2	4.3	B3/2500		
BM (30°-60°)	3884.3	8.8	B3/5000		
BH (60°-80°)	2866.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	269.1	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°	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7
2.5°	5942.0	5946.9	5946.9	5927.4	5932.3	5946.9	5893.3	5776.5	5776.5	5757.1	5723.0
5°	6307.0	6282.7	6248.6	6253.5	6234.0	6234.0	6175.6	6063.7	5966.3	5927.4	5825.2
7.5°	6355.6	6380.0	6375.1	6433.5	6462.7	6462.7	6491.9	6399.4	6253.5	6161.0	6058.8
10°	6453.0	6389.7	6384.8	6521.1	6564.9	6667.1	6783.9	6735.2	6613.6	6482.2	6345.9
12.5°	6511.4	6550.3	6550.3	6618.4	6720.6	6871.5	7075.9	7168.4	6978.6	6842.3	6633.0
15°	6599.0	6545.4	6701.2	6759.6	6954.2	7061.3	7353.3	7591.7	7465.2	7299.8	6968.8
17.5°	6637.9	6603.8	6691.4	6798.5	7129.4	7290.0	7645.3	7976.2	7869.1	7762.1	7421.4
20°	6837.4	6832.6	6871.5	6959.1	7197.6	7513.9	7956.7	8414.2	8453.1	8258.5	7796.1
22.5°	7324.1	7260.8	7260.8	7226.8	7328.9	7655.0	8253.6	8886.2	9061.4	8832.7	8219.5
25°	7771.8	7859.4	7805.9	7650.1	7611.2	7781.5	8467.7	9387.5	9621.1	9406.9	8793.8
27.5°	8346.0	8375.2	8467.7	8258.5	7990.8	8044.3	8701.3	9669.7	10151.5	9864.4	9119.8
30°	9173.4	9119.8	9100.4	8866.8	8516.4	8443.4	8969.0	10083.4	10847.4	10443.5	9504.3
32.5°	9733.0	9864.4	9859.5	9538.3	9115.0	8954.4	9299.9	10472.7	11592.0	11217.3	10214.8
35°	10842.6	10978.8	10871.8	10399.7	9903.3	9582.1	9776.8	10978.8	12443.6	12151.7	10818.2
37.5°	12258.7	12579.9	12351.2	11480.1	10779.3	10428.9	10438.6	11528.7	13314.7	13076.3	11465.5
40°	13236.9	13670.0	13353.7	12536.1	11791.5	11460.6	11329.2	12180.8	14356.2	14103.1	12477.7
42.5°	14448.6	14808.8	14643.3	13835.5	12964.4	12682.1	12419.3	13270.9	15947.5	15830.7	13777.1
45°	15772.3	15942.7	15889.1	15378.1	14409.7	14312.4	13733.3	14706.6	17821.1	17869.8	15402.5
47.5°	17003.6	17096.0	17198.2	16828.4	16224.9	16307.6	15246.7	16244.4	19641.2	19962.4	17212.8
50°	17319.9	17636.2	17874.7	18122.8	18254.2	18813.9	16916.0	18132.6	21733.8	22356.7	19227.5
52.5°	16998.7	16974.4	17699.5	18478.1	19792.1	20964.9	19188.6	20478.2	23583.1	24814.3	21071.9
55°	15538.7	15490.1	16658.0	17689.7	20254.4	22162.0	22434.6	23602.5	25816.8	27417.9	23568.5
57.5°	12983.8	12682.1	13957.1	15650.7	19251.9	22293.4	25695.1	28240.3	29252.5	31077.5	27378.9
60°	8725.6	8599.1	9820.6	11840.2	15631.2	20429.6	27646.6	34046.0	34094.7	36148.4	33291.7
62.5°	5372.6	5396.9	6180.5	7693.9	10944.8	16195.7	26804.7	38683.8	38693.5	40752.1	38158.2
65°	3513.6	3528.2	4160.9	4997.9	6837.4	10983.7	22166.9	39048.8	41890.8	43803.4	40387.1
66°	3129.2	3134.0	3679.1	4360.4	5664.6	8988.4	19577.9	38099.8	42611.1	44207.3	40357.9
67.5°	2637.6	2700.9	3138.9	3664.5	4418.8	6457.8	15533.9	35355.1	42241.2	43642.8	39443.0
70°	2063.4	2097.5	2443.0	2978.3	3314.1	3737.5	9231.8	28819.4	38664.3	40937.0	36114.3
72.5°	1654.6	1683.8	1946.6	2418.7	2691.2	2462.4	5027.1	20911.4	30542.2	32965.7	28405.8
75°	1396.7	1401.6	1528.1	1902.8	2214.3	1849.3	2676.6	13421.8	19597.4	20726.4	17402.6
77.5°	1129.0	1148.5	1236.1	1450.2	1781.1	1455.1	1596.2	7518.7	9840.1	9922.8	8044.3
80°	919.8	929.5	983.0	1056.0	1357.8	1075.5	1080.4	3669.3	4219.3	4121.9	3270.3
82.5°	725.1	734.8	798.1	783.5	997.6	768.9	671.6	1766.5	1941.7	1902.8	1503.7
85°	408.8	408.8	627.8	627.8	632.6	486.7	408.8	832.2	1026.8	958.7	705.6
87.5°	131.4	136.3	189.8	199.5	316.3	219.0	199.5	311.5	486.7	428.3	253.1
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°	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7	5586.7
2.5°	5703.5	5625.7	5591.6	5479.7	5450.5	5377.5	5343.4	5299.6	5285.0	5221.8	5280.2
5°	5747.3	5723.0	5586.7	5445.6	5338.6	5289.9	5216.9	5119.6	5109.8	5022.2	5012.5
7.5°	5932.3	5849.5	5611.1	5460.2	5246.1	5124.4	4963.8	4915.2	4851.9	4822.7	4886.0
10°	6219.4	6010.1	5654.9	5275.3	5012.5	4866.5	4749.7	4715.6	4720.5	4701.0	4671.8
12.5°	6423.8	6224.3	5581.9	5119.6	4778.9	4637.8	4628.0	4662.1	4715.6	4691.3	4725.4
15°	6715.8	6341.0	5528.3	4861.6	4589.1	4550.2	4545.3	4647.5	4642.6	4642.6	4637.8
17.5°	6988.3	6457.8	5333.7	4637.8	4389.6	4418.8	4452.8	4448.0	4496.6	4516.1	4550.2
20°	7333.8	6594.1	5061.2	4413.9	4238.7	4229.0	4224.1	4229.0	4277.7	4306.9	4282.5
22.5°	7635.5	6623.3	4832.4	4199.8	4058.7	4019.7	3956.5	4019.7	3995.4	4005.1	4034.3
25°	7898.3	6628.2	4506.4	4039.2	3878.6	3791.0	3742.3	3737.5	3693.7	3688.8	3688.8
27.5°	8117.3	6462.7	4219.3	3815.3	3664.5	3581.7	3576.9	3523.3	3411.4	3338.4	3348.2
30°	8287.6	6336.2	4019.7	3620.7	3474.7	3460.1	3416.3	3294.6	3148.6	3056.2	3056.2
32.5°	8589.4	6083.1	3747.2	3421.1	3348.2	3328.7	3226.5	3119.4	2983.2	2895.6	2881.0
35°	8813.2	5849.5	3567.1	3250.8	3216.8	3177.8	3090.2	2973.4	2934.5	2915.0	2929.6
37.5°	9066.3	5586.7	3348.2	3104.8	3138.9	3065.9	2963.7	2910.2	3046.4	3012.4	3027.0
40°	9470.2	5401.8	3134.0	3017.2	3051.3	2968.6	2837.2	2817.7	2988.0	2866.4	2837.2
42.5°	10209.9	5396.9	3002.6	2885.8	2910.2	2846.9	2730.1	2720.4	2788.5	2642.5	2598.7
45°	11129.7	5567.3	2905.3	2788.5	2769.0	2759.3	2720.4	2676.6	2618.2	2428.4	2379.7
47.5°	12229.5	5844.7	2885.8	2642.5	2666.8	2749.6	2700.9	2589.0	2438.1	2316.5	2292.1
50°	13562.9	6418.9	2837.2	2535.4	2579.2	2710.6	2671.7	2516.0	2379.7	2301.9	2287.3
52.5°	15037.5	7144.0	2773.9	2370.0	2467.3	2676.6	2696.0	2550.0	2350.5	2282.4	2272.7
55°	16774.8	8214.7	2700.9	2189.9	2335.9	2642.5	2696.0	2452.7	2311.6	2311.6	2301.9
57.5°	20205.7	10141.8	2550.0	2024.5	2219.1	2579.2	2618.2	2457.6	2316.5	2316.5	2297.0
60°	25237.7	13149.3	2262.9	1897.9	2107.2	2491.6	2559.8	2384.6	2262.9	2292.1	2287.3
62.5°	29174.7	14064.2	2019.6	1776.3	1995.3	2331.1	2481.9	2306.7	2199.7	2306.7	2316.5
65°	30016.6	13139.6	1771.4	1644.9	1839.5	2175.3	2370.0	2194.8	2107.2	2316.5	2326.2
66°	29714.8	12419.3	1683.8	1605.9	1771.4	2097.5	2301.9	2155.9	2058.5	2306.7	2311.6
67.5°	28371.7	11338.9	1586.5	1523.2	1678.9	1985.5	2224.0	2102.3	1980.7	2277.5	2233.7
70°	25451.8	9616.2	1421.0	1377.2	1547.5	1800.6	2043.9	1966.1	1859.0	2097.5	2019.6
72.5°	19602.3	7684.2	1245.8	1250.7	1396.7	1610.8	1863.9	1810.3	1717.9	1839.5	1790.9
75°	11937.5	4910.3	1085.2	1095.0	1216.6	1430.8	1693.5	1654.6	1542.7	1610.8	1586.5
77.5°	5289.9	2433.3	914.9	934.4	1031.7	1260.4	1474.5	1411.3	1294.5	1309.1	1299.4
80°	2053.7	1153.4	744.6	768.9	832.2	1007.4	1221.5	1163.1	1060.9	1041.4	1031.7
82.5°	987.9	642.4	574.2	584.0	608.3	803.0	1051.2	978.2	841.9	754.3	754.3
85°	496.4	399.1	403.9	369.9	403.9	545.0	710.5	593.7	491.5	438.0	447.7
87.5°	199.5	199.5	199.5	170.3	180.1	257.9	330.9	223.9	204.4	121.7	121.7
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)