

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: P480863

Luminaire Tested: **IFLD-S-SA6B-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480863
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

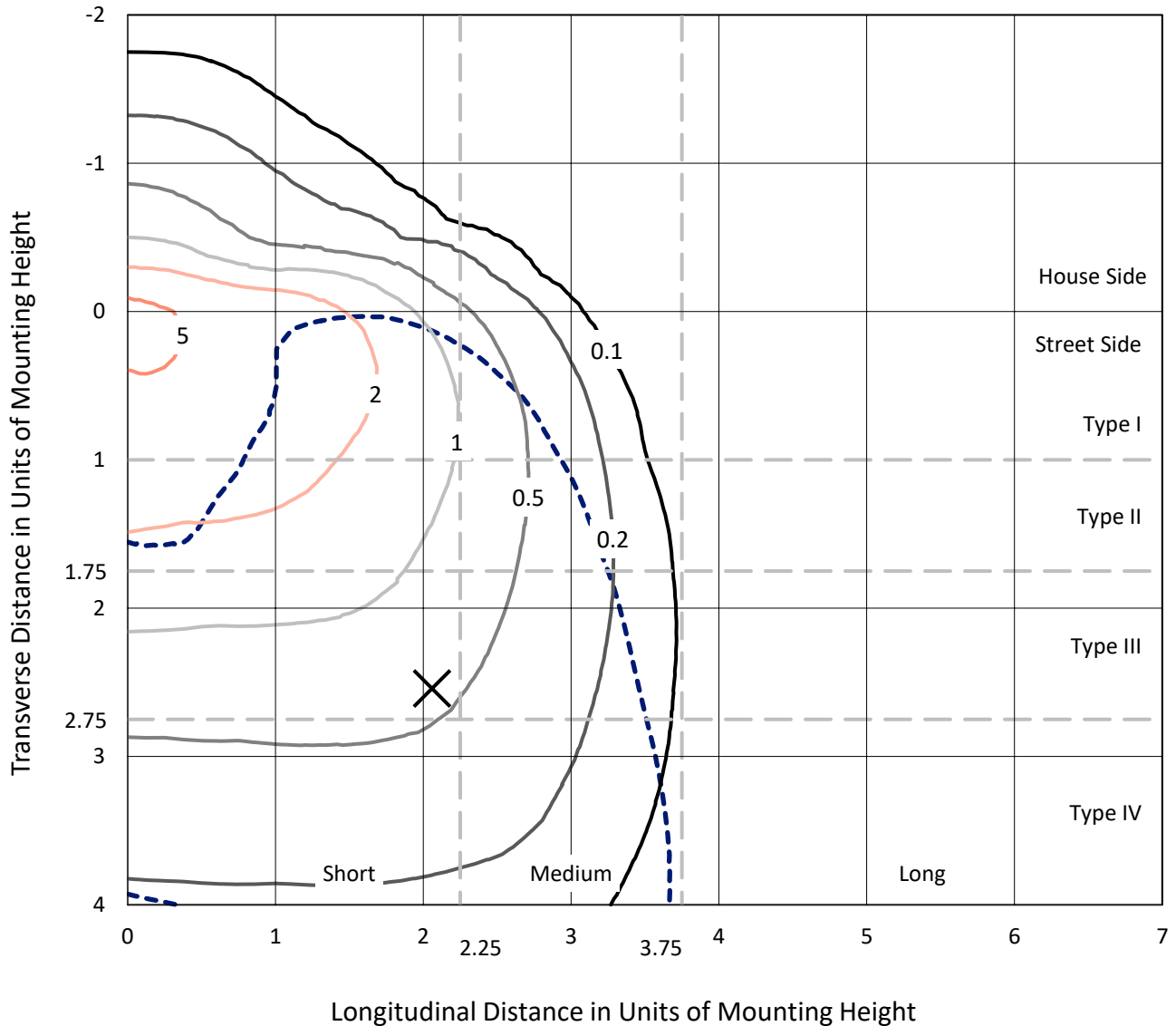
Lumens per Lamp: N/A
Luminaire Lumens: 31845.1 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

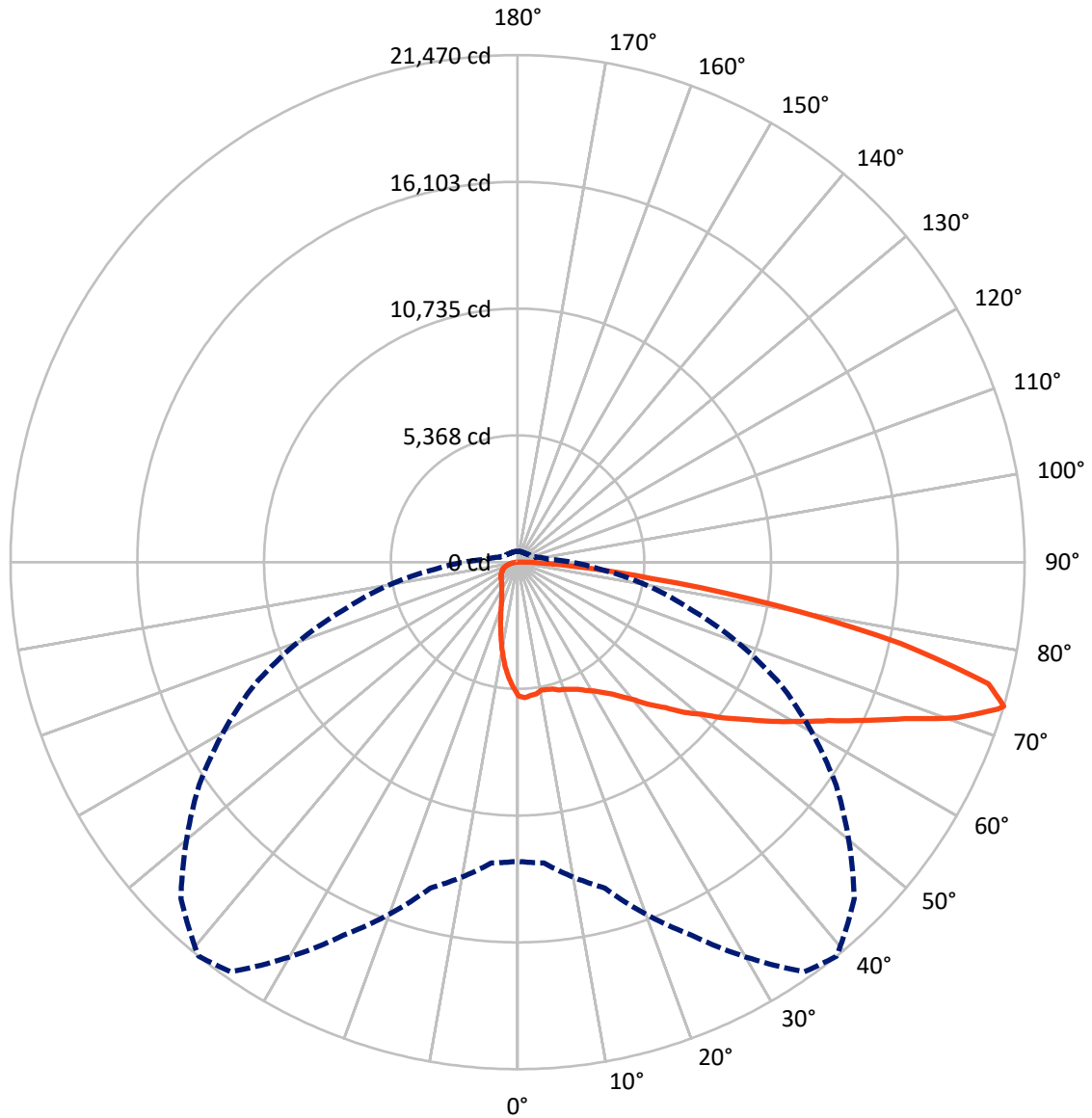
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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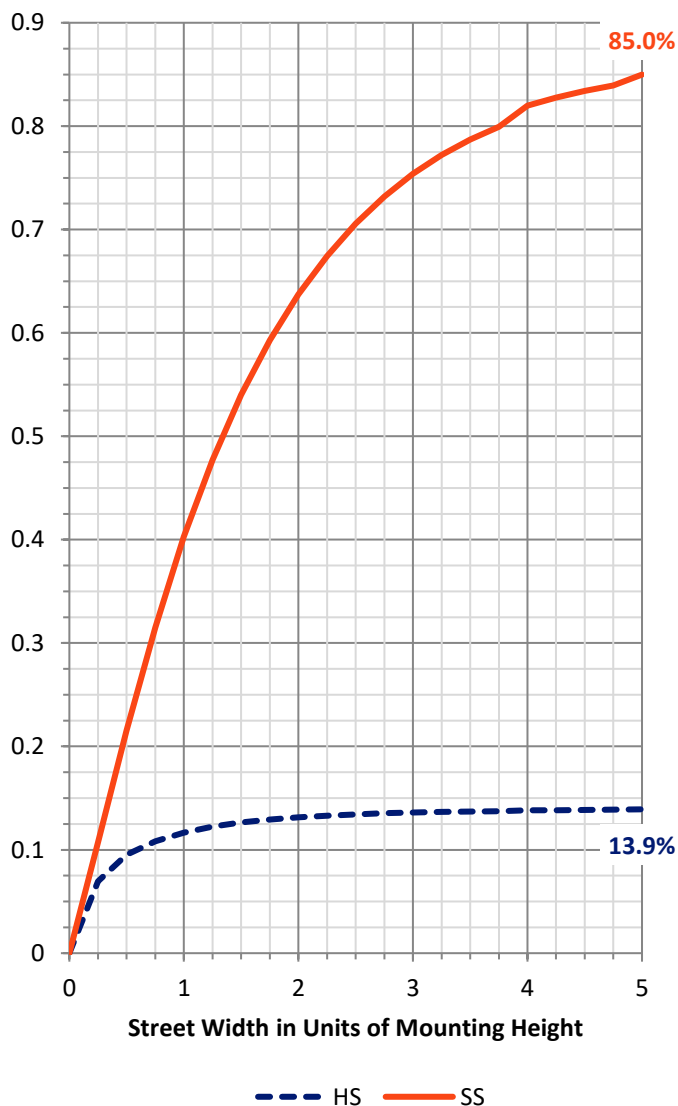
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4476.5	0.0	4476.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27368.6	0.0	27368.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	31845.1	0.0	31845.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.1	1.5
10°-20°	1250.9	3.9
20°-30°	1911.6	6.0
30°-40°	2787.1	8.8
40°-50°	4211.7	13.2
50°-60°	6098.7	19.2
60°-70°	7748.7	24.3
70°-80°	6281.5	19.7
80°-90°	1062.8	3.3
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°	31845.1	100.0
0°-180°	31845.1	100.0

Coefficient of Utilization



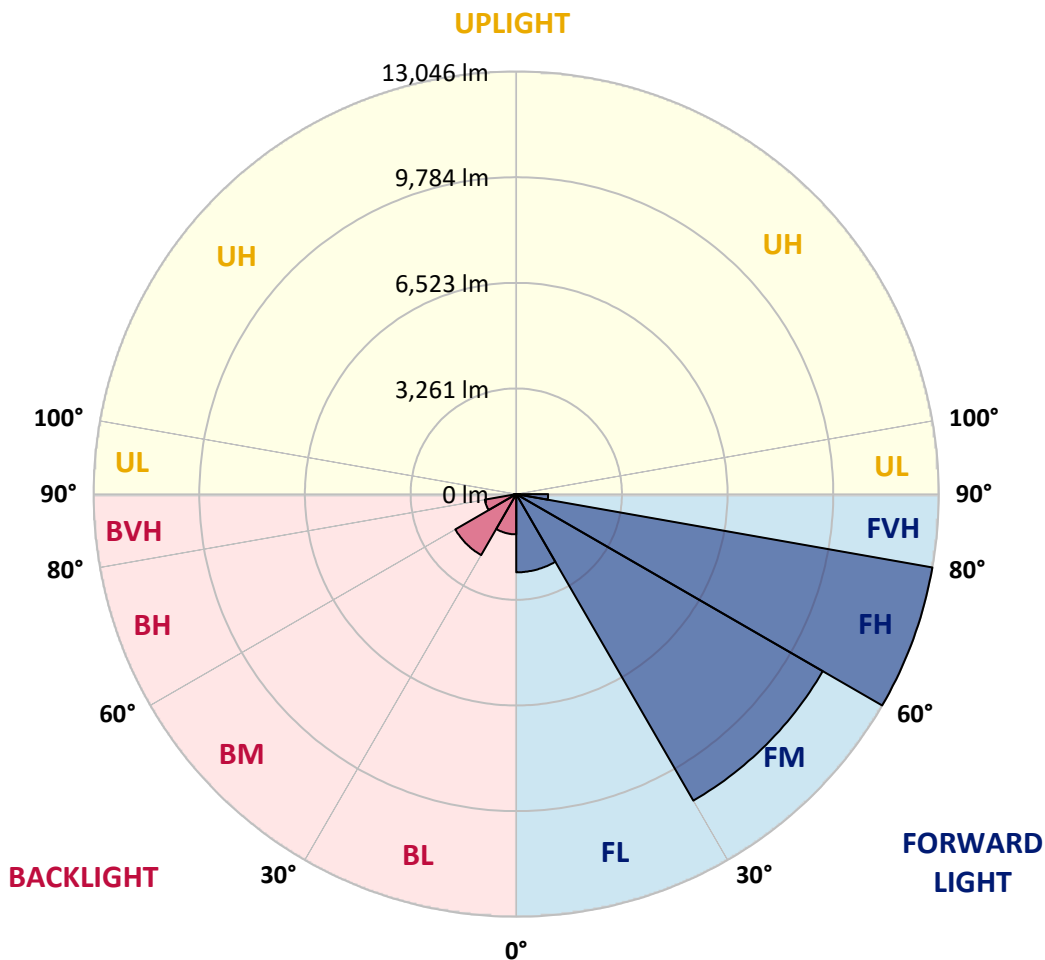
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.2	7.6			
FM (30°-60°)	10924.9	34.3			
FH (60°-80°)	13045.7	41.0			G5
FVH (80°-90°)	984.8	3.1			G5
BL (0°-30°)	1241.4	3.9	B3/2500		
BM (30°-60°)	2172.6	6.8	B2/2500		
BH (60°-80°)	984.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	78.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6
2.5°	5804.0	5743.5	5754.1	5732.8	5754.1	5747.0	5736.3	5682.9	5736.3	5682.9	5668.6
5°	5725.6	5725.6	5761.3	5707.8	5714.9	5679.3	5714.9	5675.8	5640.1	5551.1	5526.1
7.5°	5700.7	5697.1	5700.7	5625.9	5661.5	5640.1	5604.5	5561.7	5490.5	5433.5	5351.5
10°	5529.7	5565.3	5526.1	5547.5	5576.0	5511.9	5508.3	5497.6	5465.5	5390.7	5340.8
12.5°	5437.0	5497.6	5519.0	5501.2	5526.1	5533.2	5511.9	5497.6	5458.4	5408.5	5266.0
15°	5476.2	5405.0	5465.5	5583.1	5558.2	5576.0	5579.6	5565.3	5547.5	5454.9	5362.2
17.5°	5486.9	5444.2	5572.4	5597.4	5629.4	5693.6	5650.8	5647.3	5579.6	5515.4	5380.0
20°	5511.9	5494.0	5597.4	5729.2	5732.8	5743.5	5764.8	5711.4	5675.8	5565.3	5358.7
22.5°	5604.5	5665.1	5761.3	5818.3	5850.3	5857.5	5857.5	5750.6	5711.4	5622.3	5458.4
25°	5882.4	5818.3	5953.7	6021.4	5975.0	5964.4	5939.4	5843.2	5800.5	5722.1	5504.7
27.5°	6085.5	6081.9	6160.3	6253.0	6128.2	6153.2	6064.1	6035.6	5939.4	5896.7	5586.7
30°	6363.4	6441.8	6438.2	6466.7	6302.8	6331.3	6217.3	6163.9	6110.4	6135.4	5829.0
32.5°	6719.7	6691.2	6737.5	6716.1	6552.2	6577.2	6441.8	6359.8	6377.7	6452.5	6160.3
35°	6947.7	6919.2	6937.0	6937.0	6887.2	6858.7	6801.6	6694.8	6780.3	6919.2	6530.9
37.5°	7193.6	7229.2	7332.5	7311.1	7247.0	7247.0	7239.9	7165.1	7275.5	7617.6	7122.3
40°	7410.9	7507.1	7571.2	7614.0	7688.8	7688.8	7749.4	7706.6	7906.2	8454.8	7845.6
42.5°	7638.9	7642.5	7991.7	8023.7	8191.2	8262.4	8308.8	8344.4	8718.5	9331.3	8618.7
45°	7931.1	7948.9	8255.3	8501.2	8761.3	8786.2	8960.8	9078.4	9538.0	10289.8	9459.6
47.5°	8315.9	8294.5	8622.3	9014.2	9338.5	9509.5	9719.7	9848.0	10414.5	11330.1	10378.8
50°	8821.8	8757.7	8946.5	9562.9	9944.2	10133.0	10507.1	10720.9	11383.6	12324.2	11009.5
52.5°	9438.2	9331.3	9481.0	10154.4	10581.9	10963.2	11319.4	11558.2	12249.4	13093.8	11476.2
55°	10090.2	9869.3	9912.1	10781.4	11397.8	11757.7	12245.8	12495.2	13200.7	13785.0	11943.0
57.5°	10735.1	10596.2	10510.7	11383.6	12370.5	12716.1	13165.0	13489.3	14087.8	14397.8	12338.4
60°	11276.7	11241.1	11102.1	12317.1	13400.2	13695.9	14166.2	14365.8	14818.2	14964.3	12345.6
62.5°	11722.1	11600.9	11821.8	13068.8	14447.7	14782.6	15299.2	15317.1	15637.7	15317.1	11982.2
65°	12071.2	12078.4	12431.1	13977.4	15659.1	16154.4	16571.2	16524.9	16318.2	15106.8	11123.5
67.5°	12388.3	12523.7	13040.3	14975.0	17216.1	17682.8	18146.0	17533.2	16503.5	14123.5	9445.3
70°	12637.7	12773.1	13863.4	16190.0	19051.0	19735.1	19838.4	17932.3	15652.0	11964.3	7125.9
72.5°	12609.2	12855.1	14330.1	17159.1	20679.3	21270.7	20437.0	16809.9	13040.3	8340.8	4157.9
73°	12669.8	12790.9	14290.9	17429.9	21174.5	21470.3	20159.1	16457.2	12299.3	7482.2	3516.6
75°	11501.2	11910.9	13581.9	16988.1	20643.6	20590.2	18562.9	13713.7	8743.4	3929.9	1703.1
77.5°	8508.3	8768.4	10703.1	13970.3	16945.3	16603.3	14002.3	8764.8	4150.8	1457.2	919.2
80°	4157.9	4361.0	5672.2	8066.5	11080.7	11109.2	8690.0	4560.6	1777.9	823.0	627.1
82.5°	2077.2	2198.3	2725.6	3545.1	5451.3	5711.4	4407.4	2593.8	1100.9	466.7	356.3
85°	1357.5	1443.0	1678.1	1735.1	2312.3	2440.6	2052.3	2023.7	716.2	253.0	288.6
87.5°	901.4	915.7	1029.7	876.5	926.4	890.7	990.5	1275.5	210.2	106.9	78.4
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°	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6	5668.6
2.5°	5650.8	5600.9	5547.5	5472.7	5419.2	5337.3	5262.5	5230.4	5223.3	5226.8	5191.2
5°	5504.7	5433.5	5326.6	5173.4	5084.3	4948.9	4834.9	4774.3	4710.2	4720.9	4692.4
7.5°	5301.6	5223.3	5059.4	4881.2	4660.3	4467.9	4361.0	4211.4	4125.9	4061.7	4097.4
10°	5237.5	5102.1	4856.3	4610.4	4268.4	4015.4	3769.6	3598.6	3481.0	3367.0	3416.9
12.5°	5205.4	5070.1	4728.0	4364.6	3922.8	3538.0	3192.4	2982.2	2814.7	2715.0	2754.1
15°	5176.9	5009.5	4606.9	4093.8	3598.6	3092.6	2704.3	2426.4	2266.0	2169.8	2180.5
17.5°	5216.1	4977.4	4428.7	3830.2	3242.3	2700.7	2269.6	1981.0	1817.1	1756.5	1742.3
20°	5176.9	4941.8	4254.1	3566.5	2886.0	2326.6	1913.3	1674.6	1560.6	1510.7	1500.0
22.5°	5191.2	4856.3	4072.4	3274.3	2554.6	2013.1	1674.6	1492.9	1403.8	1378.9	1386.0
25°	5258.9	4806.4	3890.7	2953.7	2226.8	1781.5	1521.4	1382.4	1318.3	1293.3	1300.5
27.5°	5308.8	4849.2	3726.8	2650.8	1948.9	1574.8	1393.1	1300.5	1257.7	1239.9	1236.3
30°	5433.5	4874.1	3566.5	2380.0	1720.9	1439.4	1304.0	1229.2	1200.7	1190.0	1186.5
32.5°	5618.7	4920.4	3381.2	2130.6	1553.4	1311.2	1232.8	1168.6	1161.5	1150.8	1154.4
35°	5921.6	5080.7	3174.6	1916.9	1393.1	1225.6	1158.0	1115.2	1115.2	1115.2	1125.9
37.5°	6356.3	5305.2	2989.3	1713.8	1289.8	1150.8	1093.8	1079.6	1072.4	1083.1	1090.3
40°	6915.7	5576.0	2839.7	1553.4	1200.7	1100.9	1051.1	1043.9	1040.4	1036.8	1043.9
42.5°	7528.5	5921.6	2711.4	1428.7	1136.6	1047.5	1011.9	1004.7	990.5	997.6	1008.3
45°	8137.7	6349.2	2597.4	1329.0	1093.8	1019.0	969.1	965.6	958.4	954.9	972.7
47.5°	8814.7	6769.6	2561.8	1268.4	1061.8	976.2	940.6	937.1	915.7	912.1	926.4
50°	9342.0	7079.6	2600.9	1239.9	1015.4	944.2	919.2	901.4	883.6	865.8	865.8
52.5°	9705.4	7293.3	2629.4	1218.5	990.5	901.4	869.4	862.2	844.4	826.6	819.5
55°	10033.2	7421.6	2636.6	1222.1	965.6	851.5	830.2	826.6	815.9	787.4	780.3
57.5°	10143.7	7368.2	2494.1	1190.0	951.3	819.5	791.0	798.1	783.8	758.9	755.3
60°	10133.0	6997.6	2169.8	1147.3	919.2	783.8	748.2	769.6	769.6	741.1	737.5
62.5°	9516.6	6142.5	1774.3	1065.3	883.6	748.2	709.0	741.1	751.8	734.0	730.4
65°	8237.5	5002.4	1482.2	983.4	830.2	709.0	669.8	705.5	723.3	716.2	712.6
67.5°	6815.9	3826.6	1232.8	876.5	762.5	655.6	623.5	648.5	659.1	662.7	666.3
70°	4817.1	2547.5	1029.7	758.9	669.8	598.6	562.9	566.5	562.9	573.6	573.6
72.5°	2618.8	1467.9	837.3	644.9	577.2	520.2	495.2	477.4	477.4	473.9	473.9
73°	2241.1	1318.3	798.1	627.1	552.3	505.9	477.4	463.2	463.2	459.6	456.1
75°	1257.7	965.6	684.1	538.0	477.4	441.8	420.4	399.0	395.5	395.5	395.5
77.5°	826.6	751.8	545.1	431.1	384.8	352.7	345.6	324.2	324.2	324.2	320.7
80°	620.0	591.4	420.4	327.8	295.7	270.8	263.7	249.4	245.8	231.6	235.2
82.5°	413.3	466.7	306.4	231.6	199.5	185.3	185.3	181.7	171.0	153.2	153.2
85°	327.8	381.2	220.9	142.5	117.6	99.8	103.3	99.8	96.2	78.4	74.8
87.5°	60.6	153.2	64.1	39.2	28.5	17.8	17.8	10.7	7.1	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)