

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: P480216

Luminaire Tested: **IFLD-L-SA8C-760-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480216
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-760-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

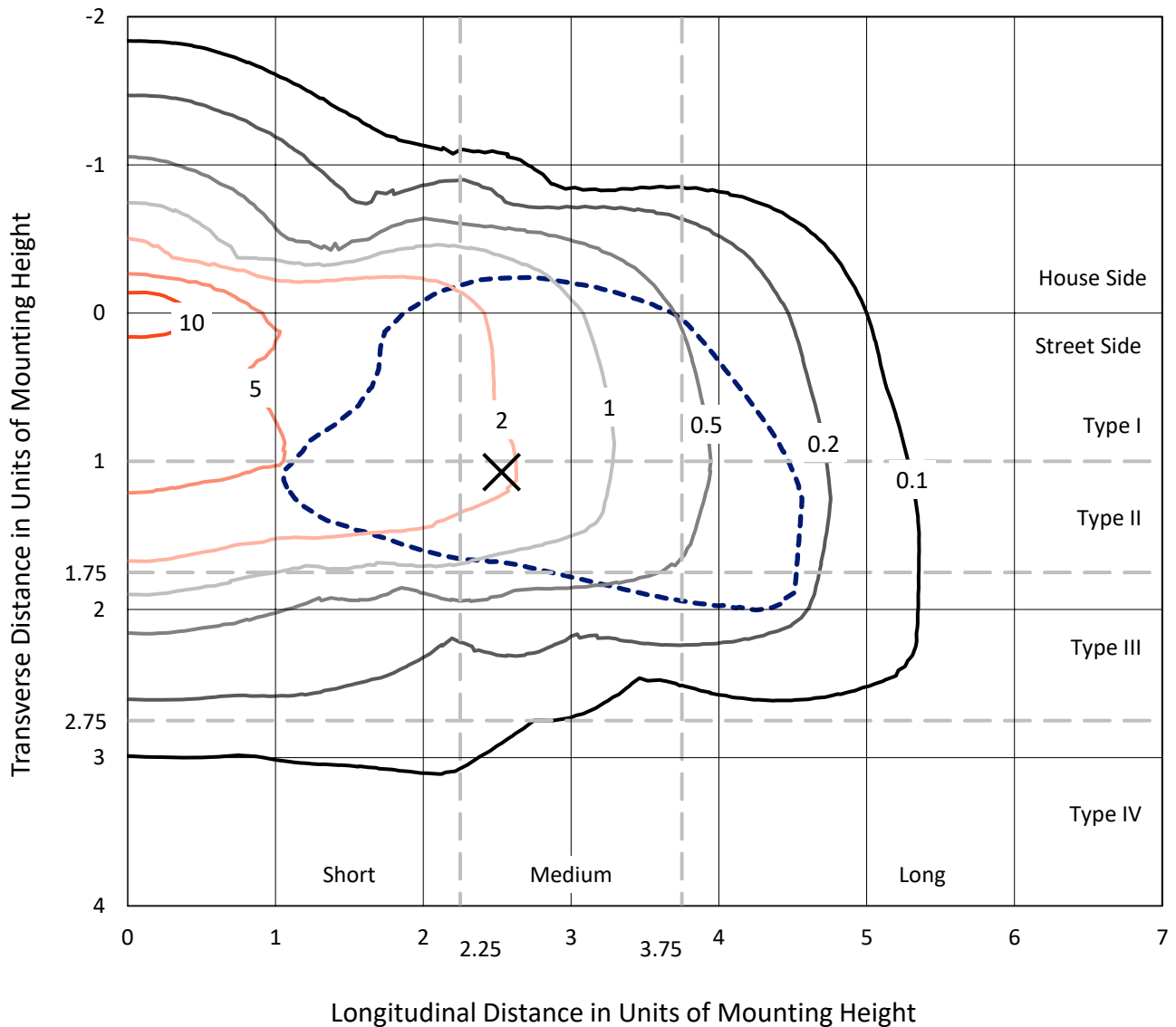
Lumens per Lamp: N/A
Luminaire Lumens: 51671.7 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

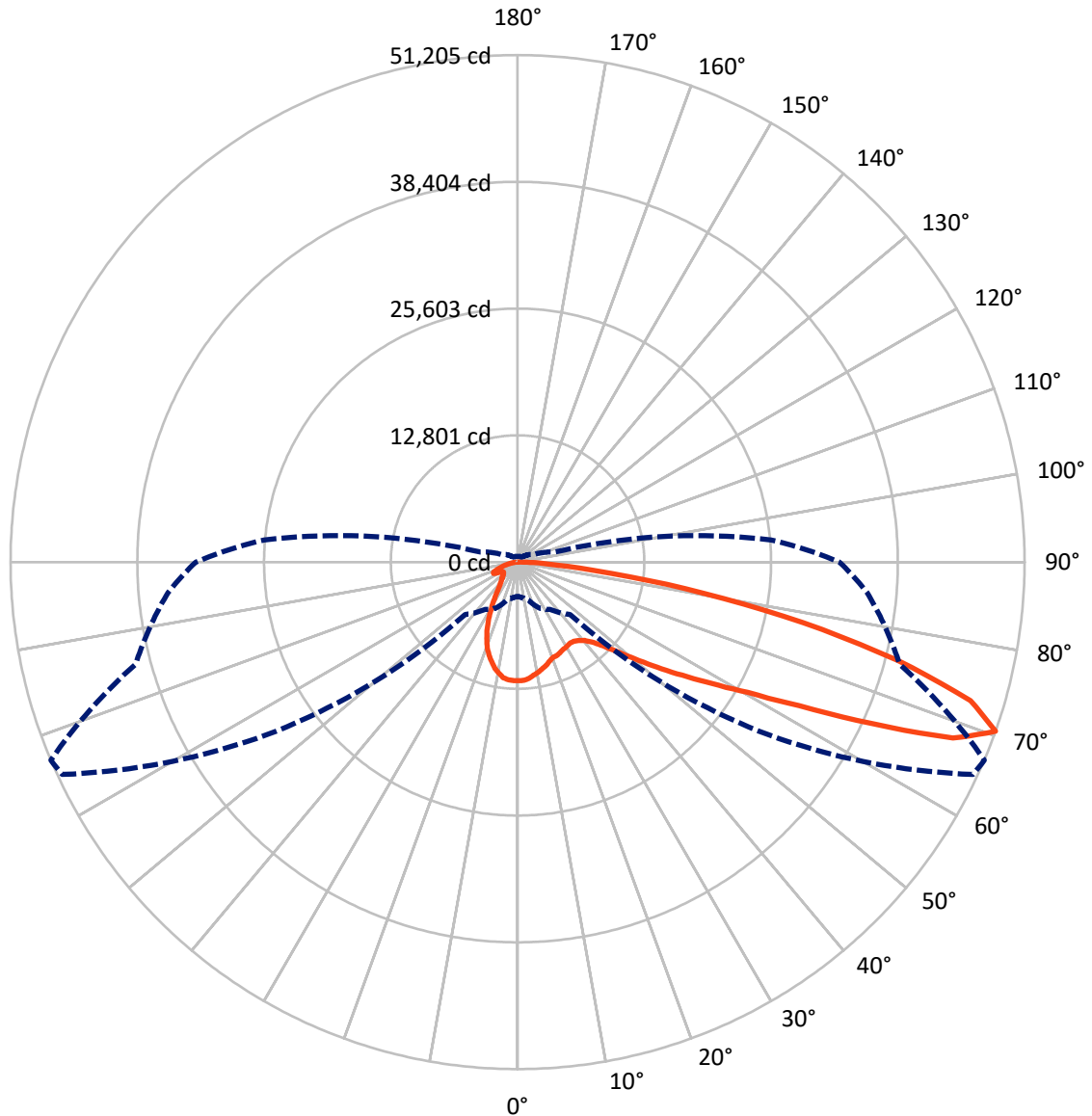
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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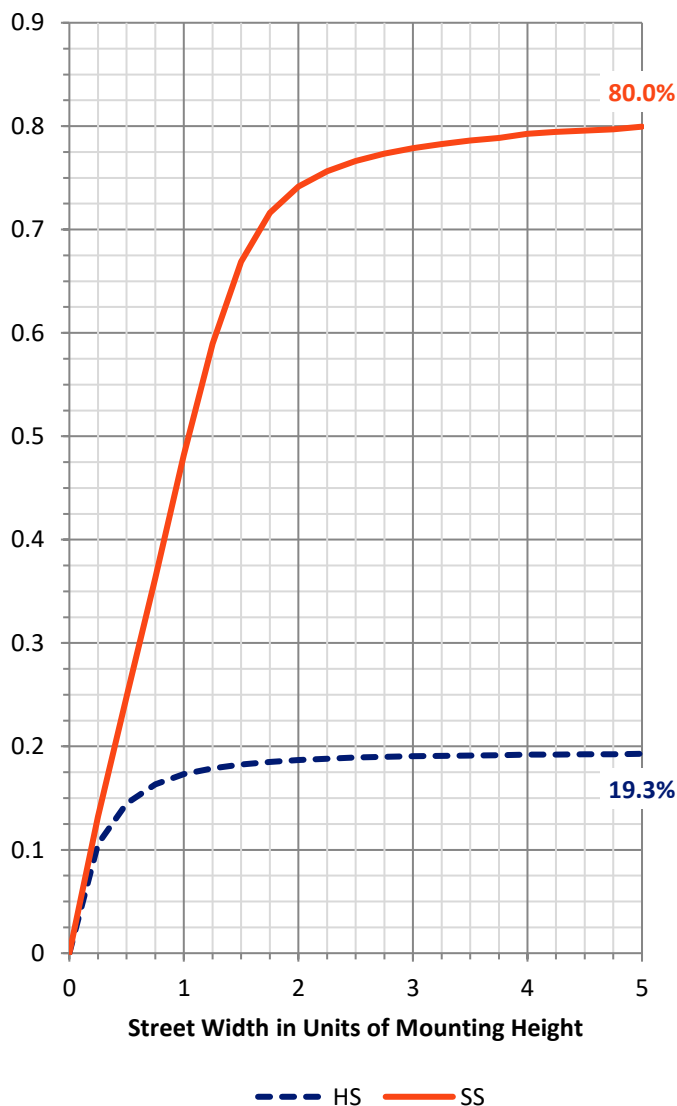
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10063.6	0.0	10063.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	41608.1	0.0	41608.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	51671.7	0.0	51671.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1043.7	2.0
10°-20°	2499.6	4.8
20°-30°	3375.5	6.5
30°-40°	4516.8	8.7
40°-50°	6641.8	12.9
50°-60°	10352.9	20.0
60°-70°	12753.1	24.7
70°-80°	9011.2	17.4
80°-90°	1477.0	2.9
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°	51671.7	100.0
0°-180°	51671.7	100.0

Coefficient of Utilization



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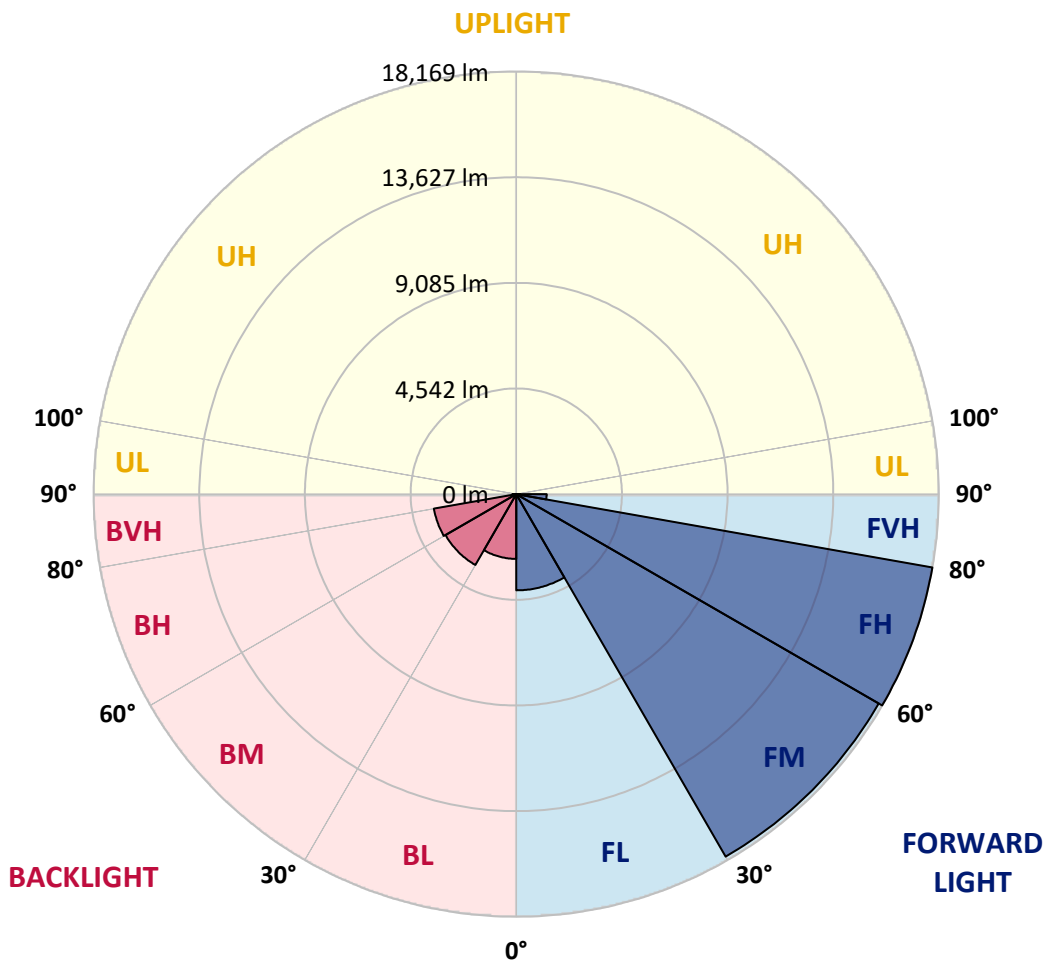
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4135.9	8.0			
FM (30°-60°)	17996.1	34.8			
FH (60°-80°)	18169.5	35.2			G5
FVH (80°-90°)	1306.6	2.5			G5
BL (0°-30°)	2782.9	5.4	B4/5000		
BM (30°-60°)	3515.4	6.8	B3/5000		
BH (60°-80°)	3594.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	170.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8
2.5°	11138.1	11263.9	11309.7	11378.3	11555.7	11687.2	11767.3	11858.9	11967.6	12059.1	12116.3
5°	10360.1	10428.7	10537.4	10611.8	10834.9	11189.6	11429.8	11818.8	11807.4	11950.4	12167.8
7.5°	9604.9	9673.6	9725.1	9873.8	10194.2	10514.5	10955.0	11584.3	11538.5	11870.3	12207.8
10°	9135.8	9084.4	9101.5	9353.2	9604.9	9965.3	10520.2	11160.9	11326.8	11841.7	12322.2
12.5°	8695.4	8638.2	8775.4	8935.6	9244.5	9570.6	10234.2	10812.0	11063.7	11738.7	12373.7
15°	8420.8	8380.7	8552.3	8621.0	8987.1	9376.1	9845.2	10548.8	10823.4	11612.9	12293.6
17.5°	8266.3	8300.6	8363.6	8512.3	8746.8	9078.6	9593.5	10371.5	10491.6	11458.4	12276.5
20°	8294.9	8335.0	8340.7	8403.6	8563.8	8821.2	9347.5	10182.7	10262.8	11429.8	12322.2
22.5°	8523.7	8466.5	8489.4	8449.4	8495.1	8695.4	9158.7	9931.0	10239.9	11189.6	12225.0
25°	8867.0	8786.9	8775.4	8638.2	8552.3	8609.5	9124.4	9868.1	10068.3	11115.2	12219.3
27.5°	9473.4	9353.2	9353.2	9147.3	8798.3	8706.8	9027.2	9765.1	9942.5	11046.5	12087.7
30°	10056.9	10056.9	10062.6	9770.8	9381.8	8929.9	9067.2	9725.1	9839.5	10840.6	11910.4
32.5°	10766.2	10749.1	10720.5	10577.4	9976.8	9301.7	9261.7	9673.6	9730.8	10771.9	11858.9
35°	11458.4	11412.7	11635.8	11509.9	10897.8	10028.3	9461.9	9696.5	9822.3	10669.0	11698.7
37.5°	11979.0	12007.6	12471.0	12551.1	12024.8	10852.0	10028.3	9925.3	10045.4	10817.7	11698.7
40°	12654.0	12768.4	13203.2	13472.1	13151.7	11939.0	10926.4	10308.6	10394.4	11149.5	11950.4
42.5°	13540.7	13638.0	14192.9	14541.8	14450.3	13323.3	11813.1	11109.5	11040.8	11704.4	12328.0
45°	14713.5	14730.6	15291.2	15771.8	15960.6	14770.7	13220.4	12122.0	12064.8	12659.8	13020.2
47.5°	16109.3	16092.1	16441.1	16955.9	17465.1	16498.3	14839.3	13660.9	13454.9	14027.0	14170.0
50°	17459.4	17385.0	17465.1	18123.0	19101.2	18660.7	16807.2	15542.9	15337.0	15651.6	15897.6
52.5°	18203.0	18294.6	18077.2	18946.7	20840.3	21217.8	19415.8	17791.2	17613.8	17768.3	18197.3
55°	17682.5	17871.2	17728.2	18552.0	21601.1	24335.6	22791.0	20394.0	20165.2	20108.0	20811.6
57.5°	15468.6	15811.8	15840.4	17144.7	21337.9	26749.7	27539.1	23466.0	23122.8	22539.3	23265.8
60°	11876.0	12219.3	12482.4	14027.0	19084.0	28191.3	33042.4	27836.6	26703.9	25193.7	25628.4
62.5°	8323.5	8558.1	8821.2	9770.8	14713.5	27344.6	37801.9	33992.0	31903.9	27991.0	28534.5
65°	6063.9	6246.9	6515.8	7076.4	9038.6	22625.1	40010.1	41302.9	39323.6	31549.3	31480.6
67.5°	4565.1	4679.5	5034.2	5932.3	6264.1	13975.5	37721.8	49025.8	47424.0	35502.2	33849.0
70°	3455.3	3552.5	3884.3	5114.2	5852.2	7494.0	29758.7	50747.7	51205.4	39935.7	35439.3
72.5°	2379.8	2488.5	2860.3	4261.9	5571.9	5943.7	18677.9	46102.6	47835.9	41760.6	33734.6
75°	1458.8	1533.1	1750.5	3232.2	5531.8	5812.2	10280.0	37779.0	39615.4	38585.6	29512.7
77.5°	1029.7	1024.0	1064.0	1893.5	4793.9	5846.5	6338.5	27682.1	29467.0	28437.2	20027.9
80°	749.4	755.1	795.2	1132.7	3255.0	5943.7	4994.1	18540.6	19072.6	14827.9	7900.2
82.5°	451.9	474.8	572.1	766.6	1956.5	5366.0	4616.5	10302.9	9639.3	4759.6	2173.8
85°	240.3	240.3	337.5	486.3	1041.2	4004.4	4444.9	4902.6	4107.4	1475.9	806.6
87.5°	57.2	57.2	97.3	194.5	417.6	1916.4	3031.9	1950.7	1561.7	497.7	331.8
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°	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8	11961.8
2.5°	12093.4	12024.8	12110.6	11939.0	11801.7	11807.4	11595.7	11584.3	11555.7	11406.9	11458.4
5°	12230.7	12173.5	12076.2	11887.5	11584.3	11281.1	11098.0	10863.5	10766.2	10714.7	10737.6
7.5°	12362.3	12259.3	11979.0	11715.8	11246.8	10674.7	10342.9	10028.3	9627.8	9582.1	9502.0
10°	12396.6	12179.2	11818.8	11258.2	10634.6	9999.7	9244.5	8661.0	8352.1	8111.9	8020.3
12.5°	12345.1	12253.6	11561.4	10840.6	9896.7	8901.3	8020.3	7196.6	6624.5	6327.0	6246.9
15°	12339.4	12179.2	11275.4	10205.6	8998.5	7700.0	6447.1	5457.5	4856.8	4610.8	4610.8
17.5°	12345.1	11961.8	10937.8	9564.9	7940.2	6184.0	4805.3	3993.0	3661.2	3626.9	3655.5
20°	12230.7	11801.7	10583.2	8809.8	6613.0	4645.2	3489.6	3157.8	3157.8	3203.6	3220.7
22.5°	12127.7	11561.4	10022.5	7877.3	5263.0	3363.7	2837.4	2740.2	2848.9	2929.0	2963.3
25°	11984.7	11361.2	9450.5	6910.5	4004.4	2711.6	2465.6	2488.5	2591.4	2734.5	2723.0
27.5°	11778.8	11012.2	8769.7	5789.3	2980.4	2339.7	2276.8	2288.3	2396.9	2459.9	2448.4
30°	11544.2	10657.5	8140.5	4673.8	2362.6	2145.2	2139.5	2168.1	2185.3	2219.6	2213.9
32.5°	11246.8	10188.4	7471.1	3632.6	2128.1	2036.5	2013.7	1996.5	2013.7	2007.9	1990.8
35°	11035.1	9936.7	6790.4	2768.8	1996.5	1939.3	1922.1	1893.5	1870.6	1836.3	1830.6
37.5°	10977.9	9685.0	6075.3	2259.6	1893.5	1864.9	1807.7	1756.2	1727.6	1710.5	1699.0
40°	10943.6	9519.1	5377.4	1985.1	1807.7	1779.1	1710.5	1641.8	1613.2	1596.1	1601.8
42.5°	11063.7	9427.6	4668.0	1847.8	1733.4	1681.9	1607.5	1527.4	1521.7	1510.2	1527.4
45°	11487.0	9542.0	4010.2	1750.5	1659.0	1573.2	1475.9	1435.9	1430.2	1418.7	1430.2
47.5°	12448.1	9828.0	3449.5	1687.6	1578.9	1504.5	1401.6	1344.3	1338.6	1332.9	1332.9
50°	13775.3	10709.0	2980.4	1613.2	1527.4	1424.4	1327.2	1264.3	1252.8	1229.9	1229.9
52.5°	15857.6	12190.7	2700.1	1573.2	1435.9	1350.1	1247.1	1178.4	1149.8	1127.0	1127.0
55°	18203.0	14027.0	2648.7	1504.5	1338.6	1258.5	1167.0	1098.4	1069.8	1041.2	1029.7
57.5°	20874.6	16458.3	3014.8	1458.8	1270.0	1167.0	1064.0	1001.1	978.2	949.6	938.2
60°	23363.1	18883.8	4153.2	1390.1	1207.1	1081.2	978.2	915.3	886.7	858.1	858.1
62.5°	26240.5	21887.1	6081.0	1390.1	1149.8	989.7	886.7	840.9	823.8	795.2	789.4
65°	29644.3	24993.4	7488.3	1475.9	1132.7	909.6	800.9	755.1	738.0	720.8	715.1
67.5°	32235.7	26778.3	6441.4	1704.7	1207.1	840.9	715.1	686.5	675.0	657.9	646.4
70°	32510.3	25691.3	3884.3	1842.0	1281.4	772.3	640.7	612.1	612.1	594.9	583.5
72.5°	30044.7	22796.7	2614.3	1641.8	1161.3	692.2	566.3	543.5	532.0	520.6	514.9
75°	25142.2	19335.7	2065.1	1310.0	892.4	572.1	492.0	469.1	451.9	446.2	434.8
77.5°	16887.3	12568.2	1527.4	1024.0	657.9	463.4	411.9	389.0	371.8	366.1	349.0
80°	6487.2	4788.2	983.9	743.7	463.4	366.1	326.1	303.2	291.8	274.6	263.1
82.5°	1910.7	1550.3	549.2	457.7	297.5	251.7	234.5	217.4	200.2	183.1	177.3
85°	789.4	709.4	337.5	240.3	183.1	148.7	137.3	120.1	103.0	91.5	80.1
87.5°	366.1	303.2	154.5	91.5	62.9	34.3	17.2	5.7	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)