

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: P476581

Luminaire Tested: **IFLD-M-SA4E-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476581
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

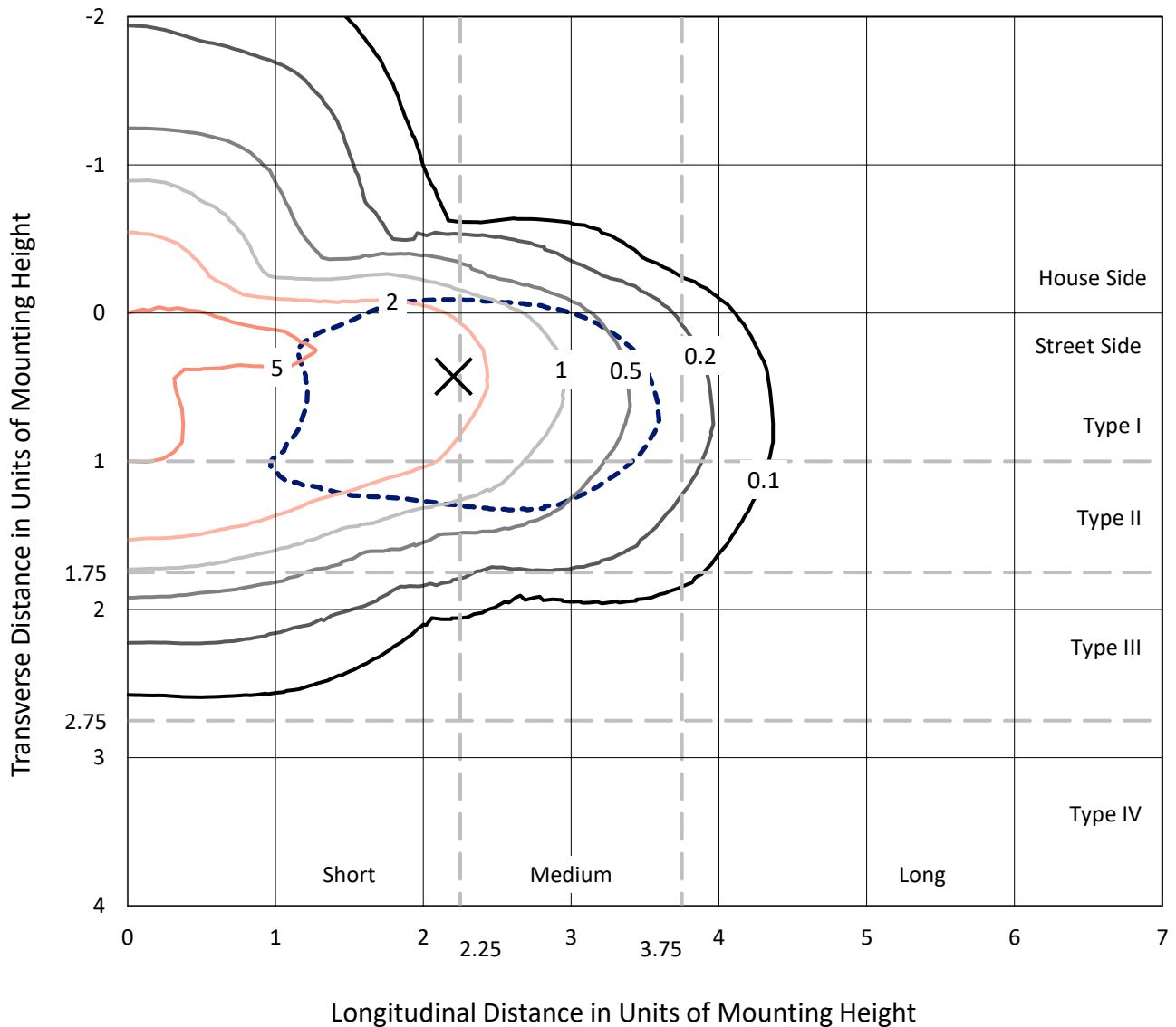
Lumens per Lamp: N/A
Luminaire Lumens: 35665.5 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

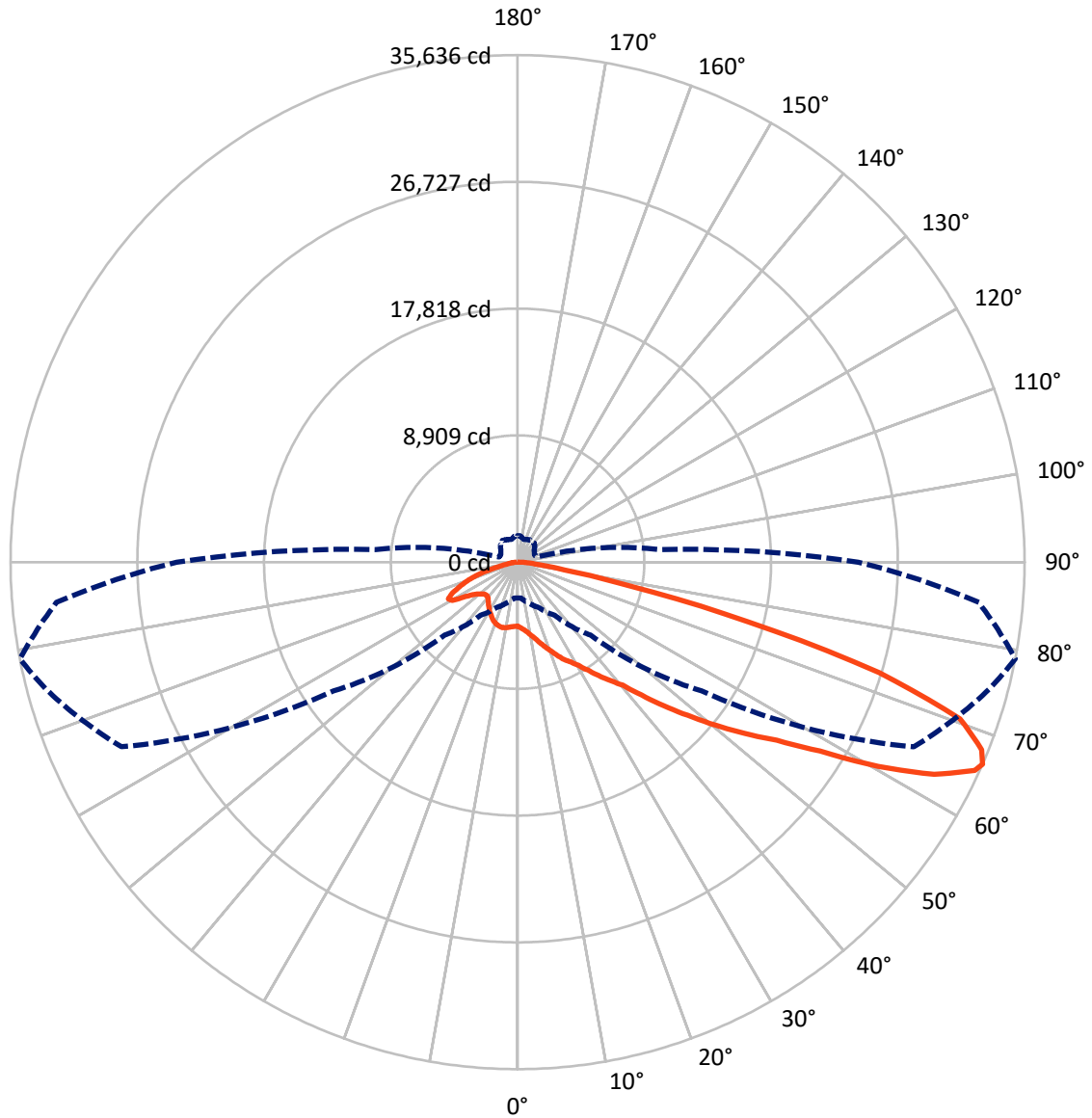
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type 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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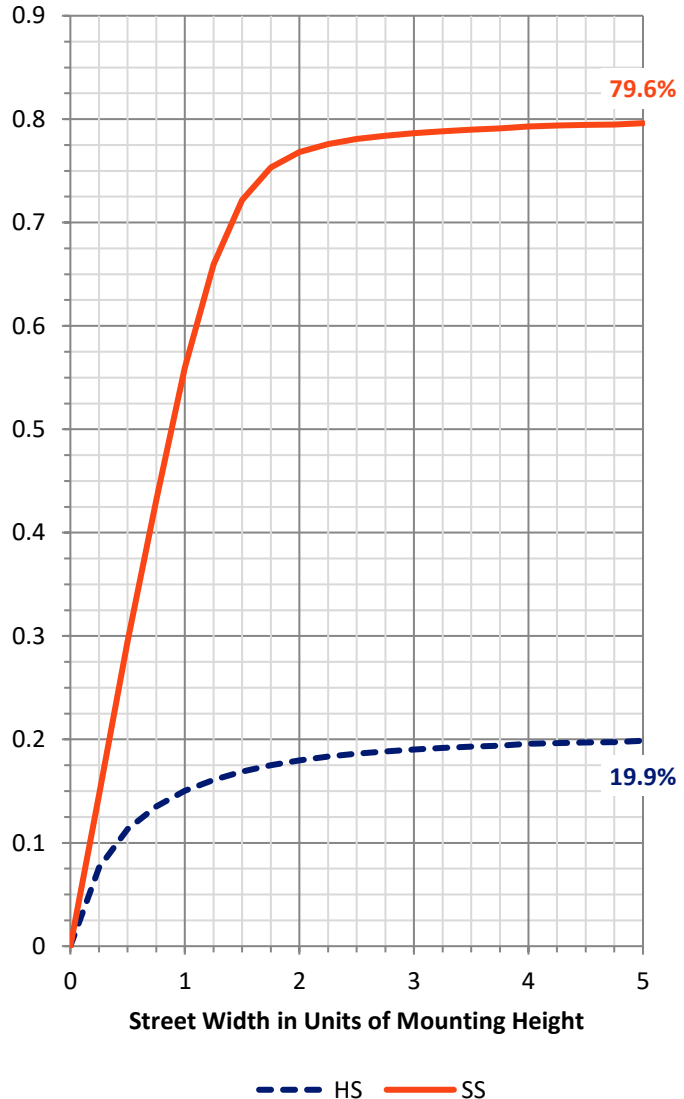
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7202.2	0.0	7202.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28463.3	0.0	28463.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	35665.5	0.0	35665.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.2
10°-20°	1367.4	3.8
20°-30°	2347.3	6.6
30°-40°	3626.1	10.2
40°-50°	5808.0	16.3
50°-60°	8671.8	24.3
60°-70°	8910.3	25.0
70°-80°	3949.8	11.1
80°-90°	541.9	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°	35665.5	100.0
0°-180°	35665.5	100.0

Coefficient of Utilization



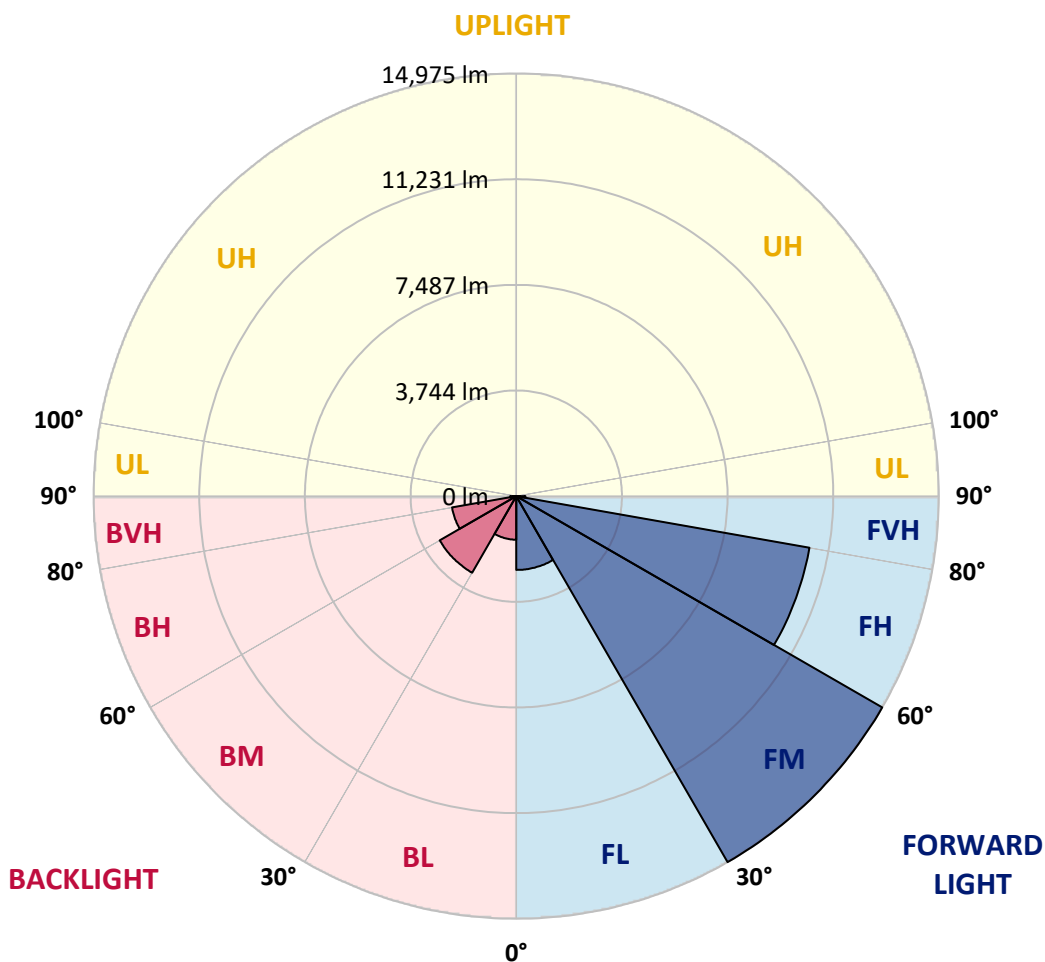
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.5	7.3			
FM (30°-60°)	14974.7	42.0			
FH (60°-80°)	10549.1	29.6			G4/12000
FVH (80°-90°)	325.0	0.9			G3/500
BL (0°-30°)	1543.1	4.3	B3/2500		
BM (30°-60°)	3131.2	8.8	B3/5000		
BH (60°-80°)	2311.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	216.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6
2.5°	4789.9	4793.9	4793.9	4778.2	4782.1	4793.9	4750.7	4656.6	4656.6	4640.9	4613.4
5°	5084.2	5064.5	5037.1	5041.0	5025.3	5025.3	4978.2	4888.0	4809.6	4778.2	4695.8
7.5°	5123.4	5143.0	5139.1	5186.2	5209.7	5209.7	5233.2	5158.7	5041.0	4966.5	4884.1
10°	5201.8	5150.9	5146.9	5256.8	5292.1	5374.5	5468.6	5429.4	5331.3	5225.4	5115.5
12.5°	5248.9	5280.3	5280.3	5335.2	5417.6	5539.2	5704.0	5778.5	5625.5	5515.7	5347.0
15°	5319.5	5276.4	5401.9	5449.0	5605.9	5692.2	5927.6	6119.8	6017.8	5884.4	5617.7
17.5°	5350.9	5323.5	5394.1	5480.4	5747.1	5876.6	6163.0	6429.7	6343.4	6257.1	5982.5
20°	5511.8	5507.8	5539.2	5609.8	5802.1	6057.1	6414.0	6782.8	6814.2	6657.3	6284.6
22.5°	5904.1	5853.1	5853.1	5825.6	5908.0	6170.8	6653.3	7163.3	7304.6	7120.2	6625.9
25°	6265.0	6335.6	6292.4	6166.9	6135.5	6272.8	6826.0	7567.4	7755.7	7583.1	7088.8
27.5°	6727.9	6751.4	6826.0	6657.3	6441.5	6484.7	7014.3	7794.9	8183.3	7951.8	7351.6
30°	7394.8	7351.6	7335.9	7147.6	6865.2	6806.3	7230.0	8128.4	8744.3	8418.7	7661.5
32.5°	7845.9	7951.8	7947.9	7689.0	7347.7	7218.3	7496.8	8442.2	9344.5	9042.4	8234.3
35°	8740.4	8850.2	8763.9	8383.4	7983.2	7724.3	7881.2	8850.2	10031.0	9795.6	8720.7
37.5°	9881.9	10140.9	9956.5	9254.3	8689.4	8406.9	8414.8	9293.5	10733.2	10541.0	9242.5
40°	10670.5	11019.6	10764.6	10105.6	9505.3	9238.6	9132.7	9819.2	11572.7	11368.7	10058.5
42.5°	11647.3	11937.6	11804.2	11153.0	10450.8	10223.2	10011.4	10697.9	12855.6	12761.4	11105.9
45°	12714.3	12851.6	12808.5	12396.6	11615.9	11537.4	11070.6	11855.2	14365.9	14405.1	12416.2
47.5°	13706.8	13781.4	13863.8	13565.6	13079.2	13145.9	12290.6	13094.9	15833.1	16092.0	13875.5
50°	13961.8	14216.8	14409.0	14609.1	14715.0	15166.2	13636.2	14617.0	17520.0	18022.1	15499.6
52.5°	13702.9	13683.3	14267.8	14895.5	15954.7	16900.1	15468.2	16507.8	19010.7	20003.2	16986.4
55°	12526.0	12486.8	13428.3	14260.0	16327.4	17865.2	18084.9	19026.4	20811.3	22102.0	18998.9
57.5°	10466.5	10223.2	11251.1	12616.3	15519.2	17971.1	20713.2	22765.0	23580.9	25052.0	22070.6
60°	7033.9	6931.9	7916.5	9544.6	12600.6	16468.6	22286.4	27445.1	27484.3	29139.8	26837.0
62.5°	4331.0	4350.6	4982.2	6202.2	8822.7	13055.6	21607.7	31183.6	31191.5	32850.9	30760.0
65°	2832.4	2844.1	3354.1	4028.9	5511.8	8854.1	17869.1	31477.9	33768.9	35310.6	32556.7
66°	2522.5	2526.4	2965.8	3515.0	4566.3	7245.7	15782.1	30712.9	34349.5	35636.2	32533.1
67.5°	2126.2	2177.2	2530.3	2954.0	3562.1	5205.8	12522.1	28500.3	34051.3	35181.1	31795.6
70°	1663.3	1690.8	1969.3	2400.9	2671.5	3012.8	7441.9	23231.8	31167.9	33000.0	29112.3
72.5°	1333.8	1357.3	1569.2	1949.7	2169.4	1985.0	4052.4	16857.0	24620.5	26574.2	22898.3
75°	1125.9	1129.8	1231.8	1533.9	1784.9	1490.7	2157.6	10819.5	15797.8	16707.9	14028.5
77.5°	910.1	925.8	996.4	1169.0	1435.8	1173.0	1286.7	6061.0	7932.2	7998.9	6484.7
80°	741.4	749.3	792.4	851.3	1094.5	867.0	870.9	2957.9	3401.2	3322.8	2636.2
82.5°	584.5	592.4	643.4	631.6	804.2	619.8	541.4	1424.0	1565.3	1533.9	1212.2
85°	329.5	329.5	506.1	506.1	510.0	392.3	329.5	670.8	827.7	772.8	568.8
87.5°	105.9	109.8	153.0	160.8	255.0	176.5	160.8	251.1	392.3	345.2	204.0
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°	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6	4503.6
2.5°	4597.7	4534.9	4507.5	4417.3	4393.7	4334.9	4307.4	4272.1	4260.3	4209.3	4256.4
5°	4633.0	4613.4	4503.6	4389.8	4303.5	4264.3	4205.4	4127.0	4119.1	4048.5	4040.7
7.5°	4782.1	4715.4	4523.2	4401.6	4229.0	4130.9	4001.4	3962.2	3911.2	3887.7	3938.7
10°	5013.5	4844.9	4558.5	4252.5	4040.7	3923.0	3828.8	3801.4	3805.3	3789.6	3766.0
12.5°	5178.3	5017.5	4499.6	4127.0	3852.4	3738.6	3730.7	3758.2	3801.4	3781.7	3809.2
15°	5413.7	5111.6	4456.5	3919.0	3699.4	3668.0	3664.0	3746.4	3742.5	3742.5	3738.6
17.5°	5633.4	5205.8	4299.6	3738.6	3538.5	3562.1	3589.5	3585.6	3624.8	3640.5	3668.0
20°	5911.9	5315.6	4079.9	3558.1	3416.9	3409.1	3405.1	3409.1	3448.3	3471.8	3452.2
22.5°	6155.1	5339.2	3895.5	3385.5	3271.8	3240.4	3189.4	3240.4	3220.8	3228.6	3252.1
25°	6367.0	5343.1	3632.7	3256.1	3126.6	3056.0	3016.8	3012.8	2977.5	2973.6	2973.6
27.5°	6543.5	5209.7	3401.2	3075.6	2954.0	2887.3	2883.4	2840.2	2750.0	2691.2	2699.0
30°	6680.8	5107.7	3240.4	2918.7	2801.0	2789.2	2753.9	2655.8	2538.2	2463.6	2463.6
32.5°	6924.0	4903.7	3020.7	2757.8	2699.0	2683.3	2600.9	2514.6	2404.8	2334.2	2322.4
35°	7104.5	4715.4	2875.5	2620.5	2593.1	2561.7	2491.1	2396.9	2365.5	2349.9	2361.6
37.5°	7308.5	4503.6	2699.0	2502.9	2530.3	2471.5	2389.1	2345.9	2455.8	2428.3	2440.1
40°	7634.1	4354.5	2526.4	2432.2	2459.7	2393.0	2287.1	2271.4	2408.7	2310.6	2287.1
42.5°	8230.4	4350.6	2420.5	2326.3	2345.9	2294.9	2200.8	2192.9	2247.9	2130.2	2094.9
45°	8971.8	4487.9	2342.0	2247.9	2232.2	2224.3	2192.9	2157.6	2110.6	1957.6	1918.3
47.5°	9858.4	4711.5	2326.3	2130.2	2149.8	2216.5	2177.2	2087.0	1965.4	1867.3	1847.7
50°	10933.3	5174.4	2287.1	2043.9	2079.2	2185.1	2153.7	2028.2	1918.3	1855.6	1843.8
52.5°	12122.0	5758.9	2236.1	1910.5	1988.9	2157.6	2173.3	2055.6	1894.8	1839.9	1832.0
55°	13522.5	6622.0	2177.2	1765.3	1883.0	2130.2	2173.3	1977.2	1863.4	1863.4	1855.6
57.5°	16288.1	8175.5	2055.6	1632.0	1788.9	2079.2	2110.6	1981.1	1867.3	1867.3	1851.6
60°	20344.5	10599.8	1824.2	1530.0	1698.6	2008.6	2063.5	1922.3	1824.2	1847.7	1843.8
62.5°	23518.2	11337.4	1628.0	1431.9	1608.4	1879.1	2000.7	1859.5	1773.2	1859.5	1867.3
65°	24196.8	10592.0	1428.0	1326.0	1482.9	1753.6	1910.5	1769.3	1698.6	1867.3	1875.2
66°	23953.6	10011.4	1357.3	1294.6	1428.0	1690.8	1855.6	1737.9	1659.4	1859.5	1863.4
67.5°	22870.9	9140.5	1278.9	1227.9	1353.4	1600.6	1792.8	1694.7	1596.6	1835.9	1800.6
70°	20517.1	7751.8	1145.5	1110.2	1247.5	1451.5	1647.6	1584.9	1498.6	1690.8	1628.0
72.5°	15801.7	6194.4	1004.3	1008.2	1125.9	1298.5	1502.5	1459.3	1384.8	1482.9	1443.7
75°	9623.0	3958.3	874.8	882.7	980.7	1153.4	1365.2	1333.8	1243.6	1298.5	1278.9
77.5°	4264.3	1961.5	737.5	753.2	831.7	1016.0	1188.7	1137.7	1043.5	1055.3	1047.4
80°	1655.5	929.7	600.2	619.8	670.8	812.1	984.7	937.6	855.2	839.5	831.7
82.5°	796.4	517.8	462.9	470.8	490.4	647.3	847.4	788.5	678.7	608.1	608.1
85°	400.1	321.7	325.6	298.1	325.6	439.4	572.8	478.6	396.2	353.1	360.9
87.5°	160.8	160.8	160.8	137.3	145.1	207.9	266.8	180.5	164.8	98.1	98.1
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)