

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: P476511

Luminaire Tested: **IFLD-L-SA8C-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-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

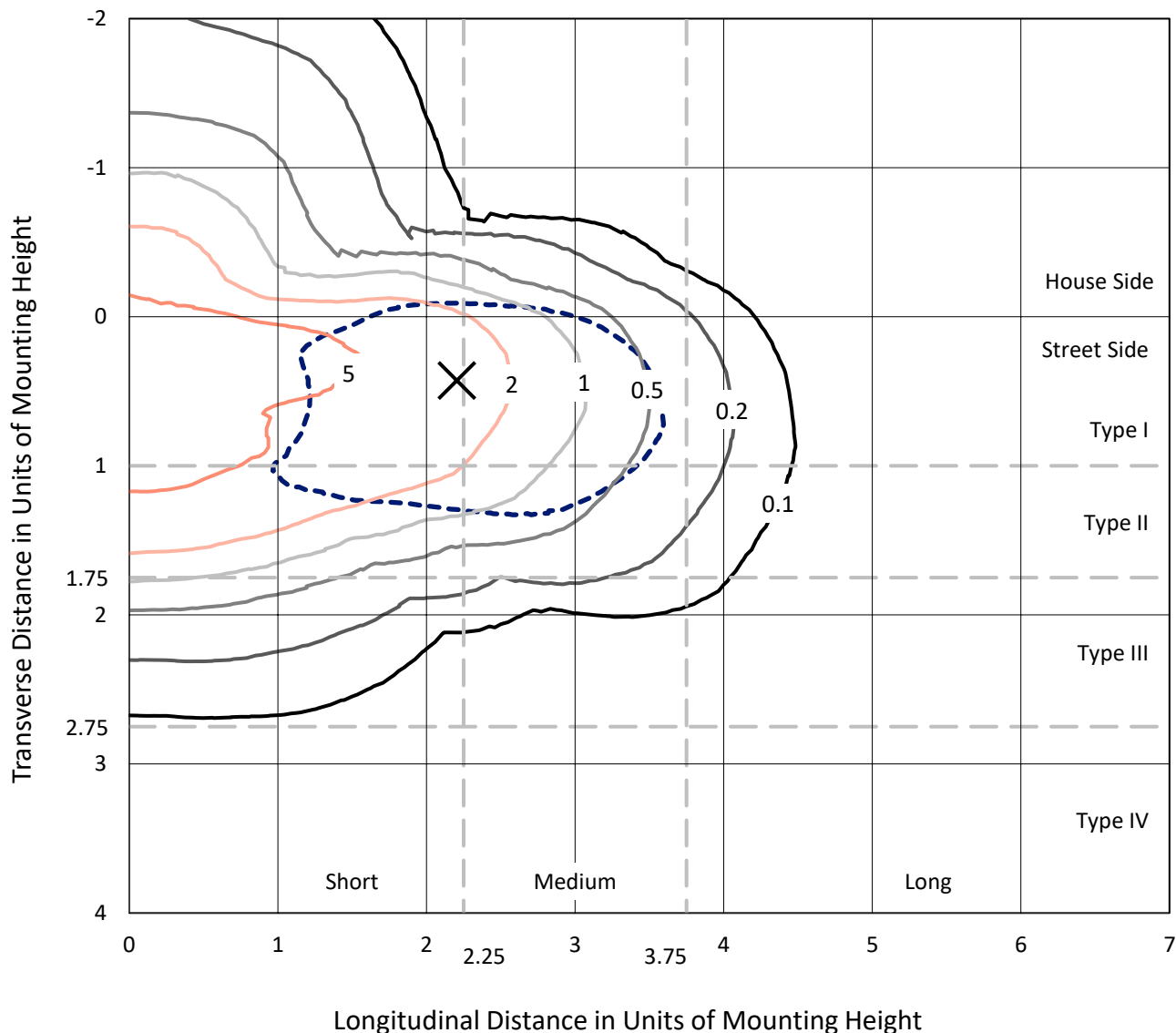
Lumens per Lamp: N/A
Luminaire Lumens: 42319.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

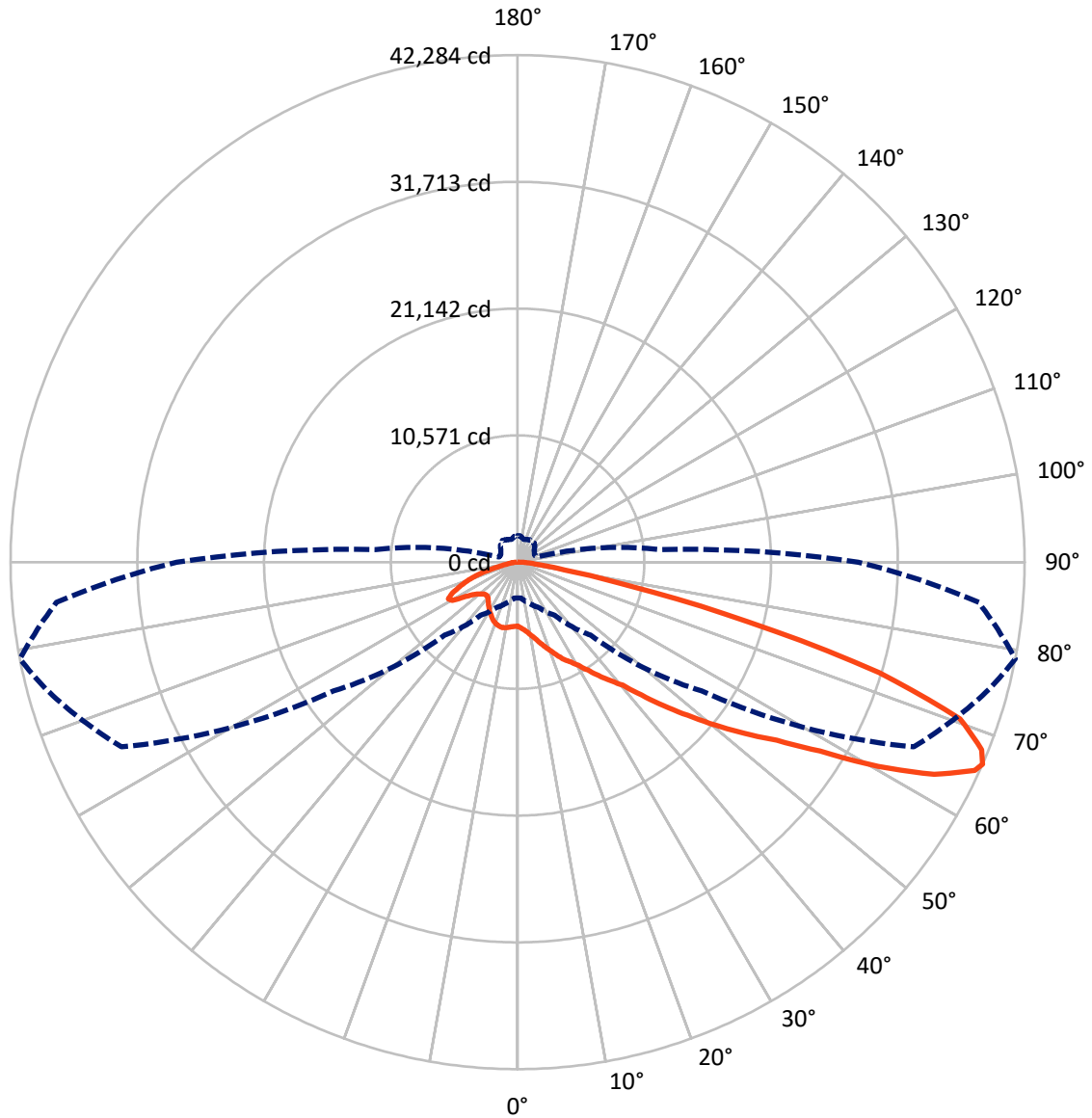
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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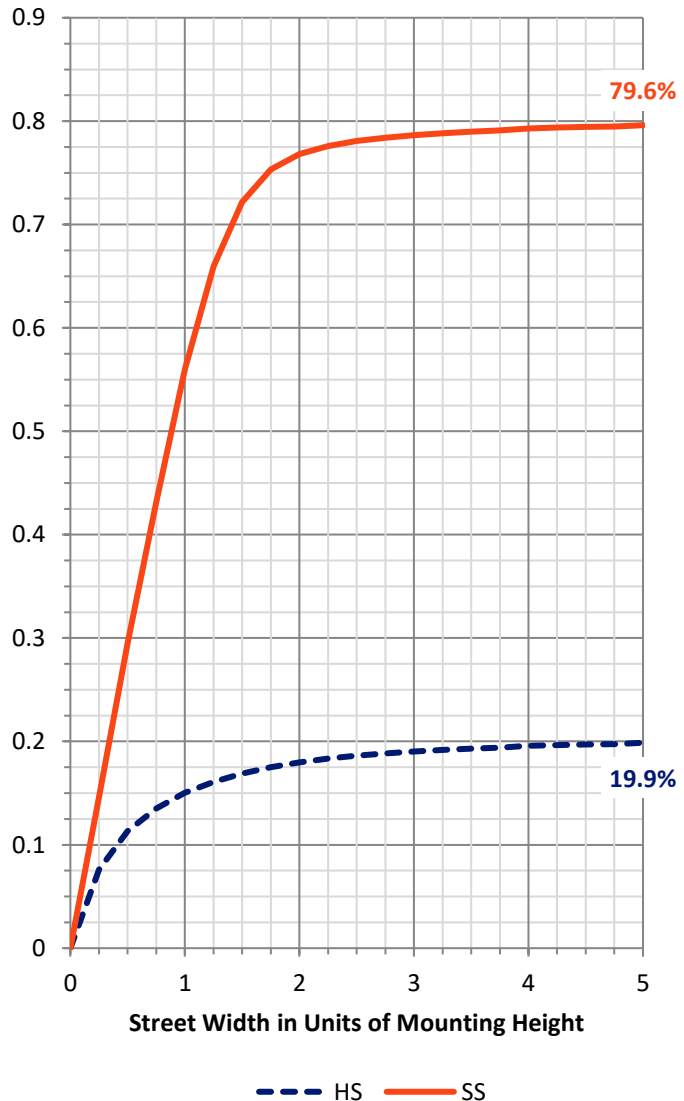
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8545.8	0.0	8545.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33773.4	0.0	33773.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	42319.1	0.0	42319.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.2
10°-20°	1622.6	3.8
20°-30°	2785.2	6.6
30°-40°	4302.5	10.2
40°-50°	6891.6	16.3
50°-60°	10289.6	24.3
60°-70°	10572.6	25.0
70°-80°	4686.7	11.1
80°-90°	643.0	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°	42319.1	100.0
0°-180°	42319.1	100.0

Coefficient of Utilization



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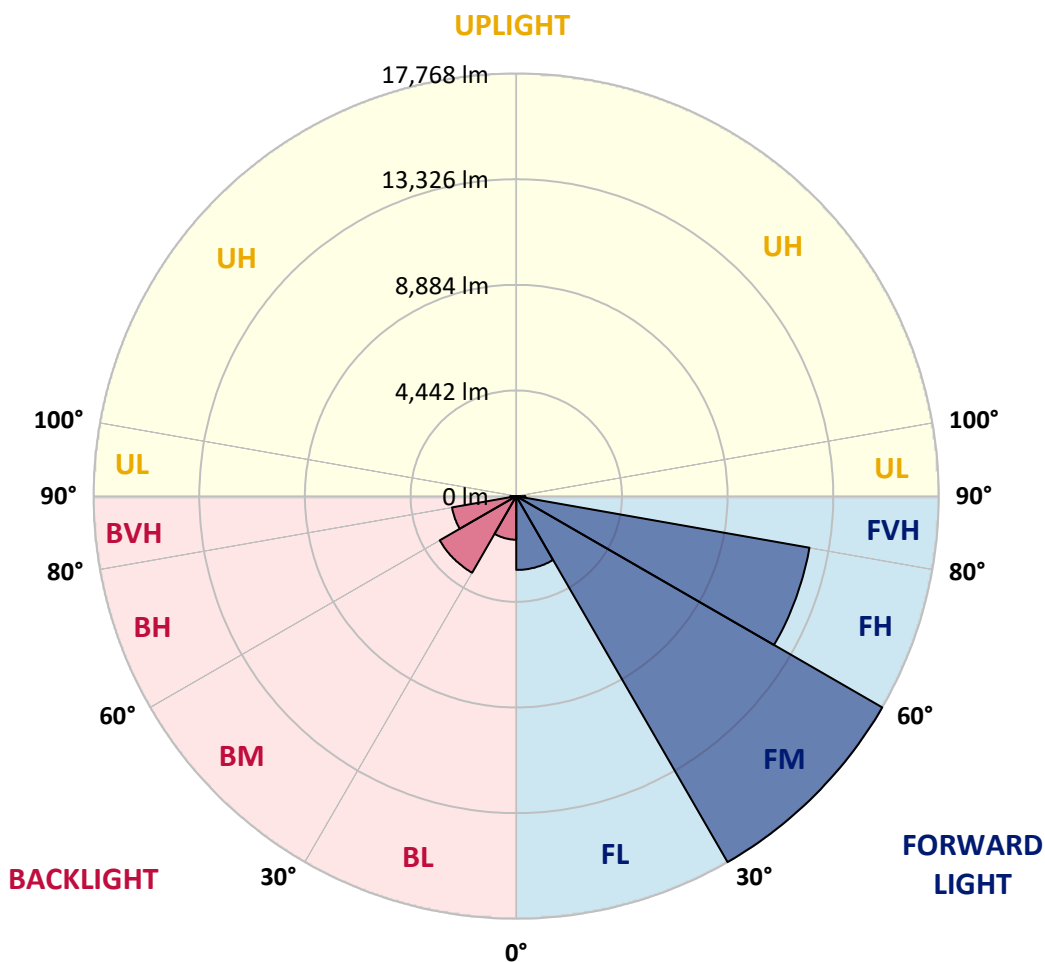
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3102.3	7.3			
FM (30°-60°)	17768.4	42.0			
FH (60°-80°)	12517.1	29.6			G5
FVH (80°-90°)	385.7	0.9			G3/500
BL (0°-30°)	1830.9	4.3	B3/2500		
BM (30°-60°)	3715.3	8.8	B3/5000		
BH (60°-80°)	2742.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	257.4	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°	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7
2.5°	5683.5	5688.2	5688.2	5669.6	5674.2	5688.2	5637.0	5525.3	5525.3	5506.7	5474.1
5°	6032.6	6009.4	5976.8	5981.4	5962.8	5962.8	5907.0	5799.9	5706.8	5669.6	5571.8
7.5°	6079.2	6102.5	6097.8	6153.7	6181.6	6181.6	6209.5	6121.1	5981.4	5893.0	5795.3
10°	6172.3	6111.8	6107.1	6237.5	6279.4	6377.1	6488.8	6442.3	6325.9	6200.2	6069.9
12.5°	6228.2	6265.4	6265.4	6330.6	6428.3	6572.6	6768.1	6856.6	6675.0	6544.7	6344.5
15°	6311.9	6260.7	6409.7	6465.5	6651.7	6754.1	7033.4	7261.5	7140.5	6982.2	6665.7
17.5°	6349.2	6316.6	6400.4	6502.8	6819.3	6972.9	7312.7	7629.3	7526.8	7424.4	7098.6
20°	6540.0	6535.4	6572.6	6656.4	6884.5	7187.0	7610.6	8048.2	8085.4	7899.2	7457.0
22.5°	7005.5	6945.0	6945.0	6912.4	7010.2	7322.0	7894.6	8499.7	8667.3	8448.5	7862.0
25°	7433.7	7517.5	7466.3	7317.4	7280.1	7443.1	8099.4	8979.1	9202.6	8997.8	8411.3
27.5°	7983.0	8010.9	8099.4	7899.2	7643.2	7694.4	8322.8	9249.1	9710.0	9435.3	8723.1
30°	8774.3	8723.1	8704.5	8481.1	8145.9	8076.1	8578.8	9644.8	10375.6	9989.2	9090.9
32.5°	9309.6	9435.3	9430.7	9123.4	8718.5	8564.9	8895.4	10017.2	11087.8	10729.4	9770.5
35°	10370.9	10501.3	10398.9	9947.4	9472.6	9165.3	9351.5	10501.3	11902.4	11623.1	10347.7
37.5°	11725.5	12032.7	11813.9	10980.7	10310.4	9975.3	9984.6	11027.3	12735.6	12507.5	10966.8
40°	12661.1	13075.4	12772.8	11990.8	11278.6	10962.1	10836.4	11651.0	13731.7	13489.7	11935.0
42.5°	13820.2	14164.6	14006.4	13233.7	12400.4	12130.5	11879.1	12693.7	15253.8	15142.1	13177.8
45°	15086.3	15249.2	15198.0	14709.2	13782.9	13689.8	13135.9	14066.9	17046.0	17092.5	14732.5
47.5°	16263.9	16352.4	16450.1	16096.4	15519.2	15598.3	14583.6	15537.8	18786.9	19094.1	16464.1
50°	16566.5	16869.1	17097.2	17334.6	17460.2	17995.5	16180.2	17343.9	20788.4	21384.2	18391.2
52.5°	16259.3	16236.0	16929.6	17674.4	18931.2	20053.0	18354.0	19587.5	22557.3	23734.9	20155.4
55°	14862.8	14816.3	15933.5	16920.3	19373.4	21198.1	21458.7	22575.9	24693.8	26225.3	22543.3
57.5°	12419.1	12130.5	13350.0	14969.9	18414.5	21323.7	24577.5	27011.9	27980.1	29725.7	26188.0
60°	8346.1	8225.1	9393.4	11325.2	14951.3	19540.9	26444.0	32565.1	32611.7	34576.0	31843.6
62.5°	5138.9	5162.2	5911.6	7359.3	10468.7	15491.2	25638.8	37001.2	37010.5	38979.5	36498.5
65°	3360.8	3374.7	3979.9	4780.5	6540.0	10505.9	21202.7	37350.3	40068.7	41898.0	38630.4
66°	2993.0	2997.7	3519.0	4170.7	5418.2	8597.5	18726.3	36442.6	40757.6	42284.4	38602.4
67.5°	2522.9	2583.4	3002.4	3505.1	4226.6	6176.9	14858.2	33817.3	40403.8	41744.4	37727.3
70°	1973.6	2006.2	2336.7	2848.8	3169.9	3574.9	8830.2	27565.8	36982.6	39156.4	34543.4
72.5°	1582.6	1610.6	1861.9	2313.4	2574.1	2355.3	4808.4	20001.8	29213.7	31531.8	27170.2
75°	1335.9	1340.6	1461.6	1820.0	2117.9	1768.8	2560.2	12838.0	18745.0	19824.9	16645.6
77.5°	1079.9	1098.5	1182.3	1387.1	1703.7	1391.8	1526.8	7191.7	9412.0	9491.2	7694.4
80°	879.8	889.1	940.3	1010.1	1298.7	1028.7	1033.4	3509.7	4035.7	3942.6	3128.0
82.5°	693.6	702.9	763.4	749.4	954.2	735.5	642.4	1689.7	1857.3	1820.0	1438.3
85°	391.0	391.0	600.5	600.5	605.1	465.5	391.0	796.0	982.2	917.0	674.9
87.5°	125.7	130.3	181.5	190.8	302.6	209.5	190.8	297.9	465.5	409.6	242.1
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°	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7
2.5°	5455.5	5381.0	5348.4	5241.3	5213.4	5143.6	5111.0	5069.1	5055.1	4994.6	5050.5
5°	5497.3	5474.1	5343.7	5208.7	5106.3	5059.8	4990.0	4896.9	4887.6	4803.8	4794.5
7.5°	5674.2	5595.1	5367.0	5222.7	5017.9	4901.5	4747.9	4701.4	4640.9	4612.9	4673.4
10°	5948.9	5748.7	5408.9	5045.8	4794.5	4654.8	4543.1	4510.5	4515.2	4496.6	4468.6
12.5°	6144.4	5953.5	5339.1	4896.9	4571.0	4436.0	4426.7	4459.3	4510.5	4487.2	4519.8
15°	6423.7	6065.2	5287.9	4650.2	4389.5	4352.3	4347.6	4445.4	4440.7	4440.7	4436.0
17.5°	6684.3	6176.9	5101.7	4436.0	4198.6	4226.6	4259.2	4254.5	4301.1	4319.7	4352.3
20°	7014.8	6307.3	4841.0	4221.9	4054.3	4045.0	4040.4	4045.0	4091.6	4119.5	4096.2
22.5°	7303.4	6335.2	4622.2	4017.1	3882.1	3844.9	3784.4	3844.9	3821.6	3830.9	3858.8
25°	7554.8	6339.9	4310.4	3863.5	3709.9	3626.1	3579.6	3574.9	3533.0	3528.4	3528.4
27.5°	7764.2	6181.6	4035.7	3649.4	3505.1	3425.9	3421.3	3370.1	3263.0	3193.2	3202.5
30°	7927.2	6060.6	3844.9	3463.2	3323.5	3309.6	3267.7	3151.3	3011.7	2923.2	2923.2
32.5°	8215.8	5818.5	3584.2	3272.3	3202.5	3183.9	3086.1	2983.7	2853.4	2769.6	2755.7
35°	8429.9	5595.1	3412.0	3109.4	3076.8	3039.6	2955.8	2844.1	2806.9	2788.2	2802.2
37.5°	8671.9	5343.7	3202.5	2969.8	3002.4	2932.5	2834.8	2783.6	2913.9	2881.3	2895.3
40°	9058.3	5166.9	2997.7	2886.0	2918.6	2839.4	2713.8	2695.1	2858.1	2741.7	2713.8
42.5°	9765.8	5162.2	2872.0	2760.3	2783.6	2723.1	2611.4	2602.0	2667.2	2527.6	2485.7
45°	10645.6	5325.1	2778.9	2667.2	2648.6	2639.3	2602.0	2560.2	2504.3	2322.8	2276.2
47.5°	11697.6	5590.4	2760.3	2527.6	2550.8	2630.0	2583.4	2476.4	2332.1	2215.7	2192.4
50°	12973.0	6139.7	2713.8	2425.2	2467.1	2592.7	2555.5	2406.5	2276.2	2201.7	2187.8
52.5°	14383.4	6833.3	2653.2	2266.9	2360.0	2560.2	2578.8	2439.1	2248.3	2183.1	2173.8
55°	16045.2	7857.3	2583.4	2094.7	2234.3	2527.6	2578.8	2346.0	2211.0	2211.0	2201.7
57.5°	19326.8	9700.6	2439.1	1936.4	2122.6	2467.1	2504.3	2350.7	2215.7	2215.7	2197.1
60°	24139.9	12577.3	2164.5	1815.4	2015.5	2383.3	2448.4	2280.9	2164.5	2192.4	2187.8
62.5°	27905.7	13452.4	1931.8	1699.0	1908.5	2229.7	2374.0	2206.4	2104.0	2206.4	2215.7
65°	28710.9	12568.0	1694.4	1573.3	1759.5	2080.7	2266.9	2099.3	2015.5	2215.7	2225.0
66°	28422.3	11879.1	1610.6	1536.1	1694.4	2006.2	2201.7	2062.1	1969.0	2206.4	2211.0
67.5°	27137.6	10845.7	1517.5	1457.0	1605.9	1899.2	2127.3	2010.9	1894.5	2178.5	2136.6
70°	24344.7	9197.9	1359.2	1317.3	1480.2	1722.3	1955.0	1880.5	1778.1	2006.2	1931.8
72.5°	18749.6	7350.0	1191.6	1196.3	1335.9	1540.7	1782.8	1731.6	1643.2	1759.5	1713.0
75°	11418.3	4696.7	1038.0	1047.3	1163.7	1368.5	1619.9	1582.6	1475.6	1540.7	1517.5
77.5°	5059.8	2327.4	875.1	893.7	986.8	1205.6	1410.4	1349.9	1238.2	1252.1	1242.8
80°	1964.3	1103.2	712.2	735.5	796.0	963.5	1168.4	1112.5	1014.8	996.1	986.8
82.5°	944.9	614.4	549.3	558.6	581.9	768.0	1005.4	935.6	805.3	721.5	721.5
85°	474.8	381.7	386.4	353.8	386.4	521.3	679.6	567.9	470.1	418.9	428.2
87.5°	190.8	190.8	190.8	162.9	172.2	246.7	316.5	214.1	195.5	116.4	116.4
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)