

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: P476653

Luminaire Tested: **IFLD-S-SA6D-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

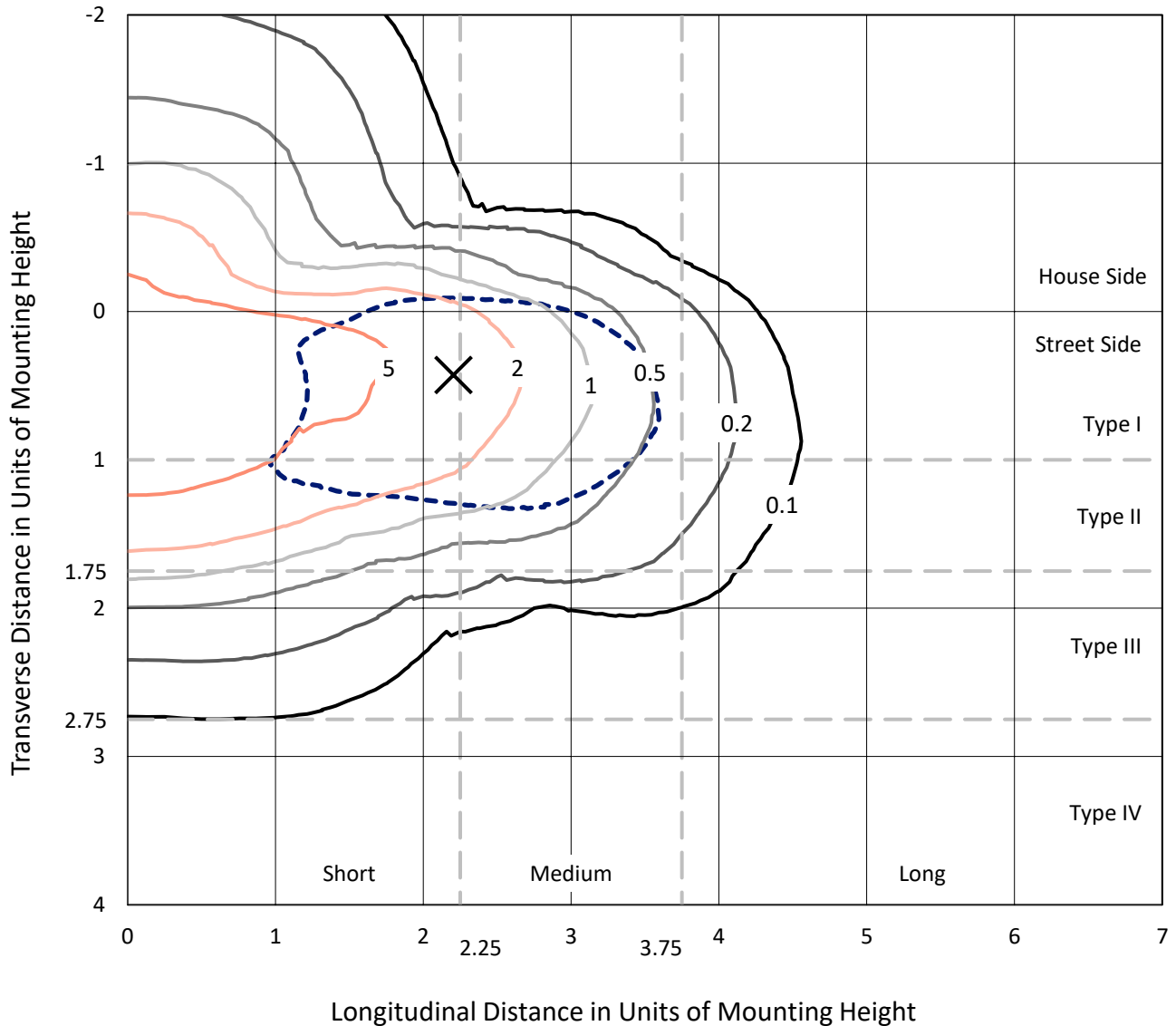
Lumens per Lamp: N/A
Luminaire Lumens: 46712.4 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

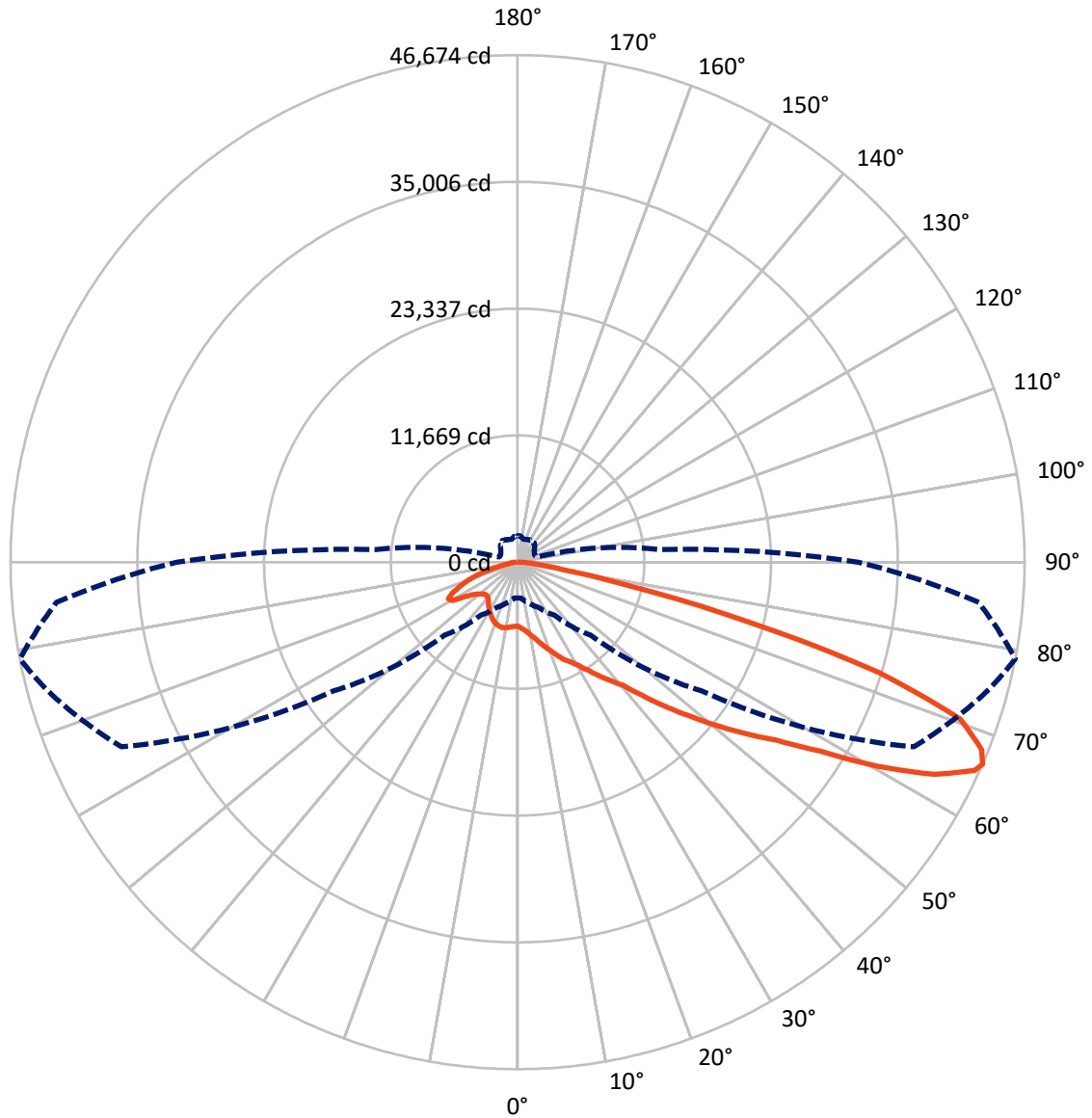
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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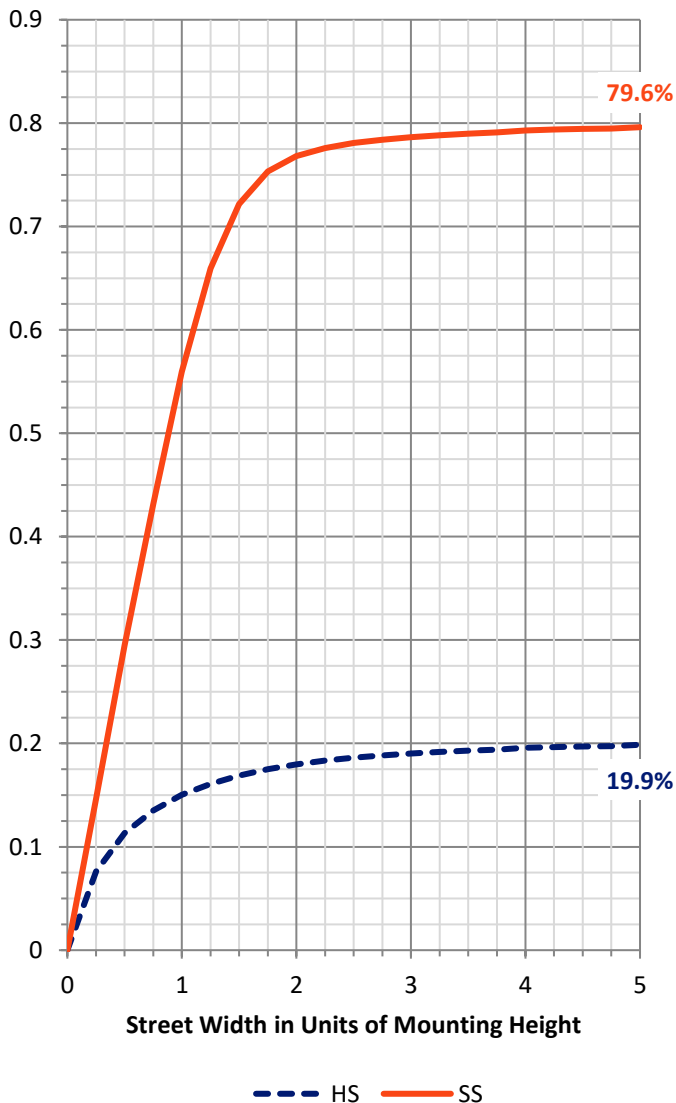
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9432.9	0.0	9432.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	37279.5	0.0	37279.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	46712.4	0.0	46712.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.0	1.2
10°-20°	1791.0	3.8
20°-30°	3074.3	6.6
30°-40°	4749.2	10.2
40°-50°	7607.0	16.3
50°-60°	11357.8	24.3
60°-70°	11670.1	25.0
70°-80°	5173.2	11.1
80°-90°	709.8	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°	46712.4	100.0
0°-180°	46712.4	100.0



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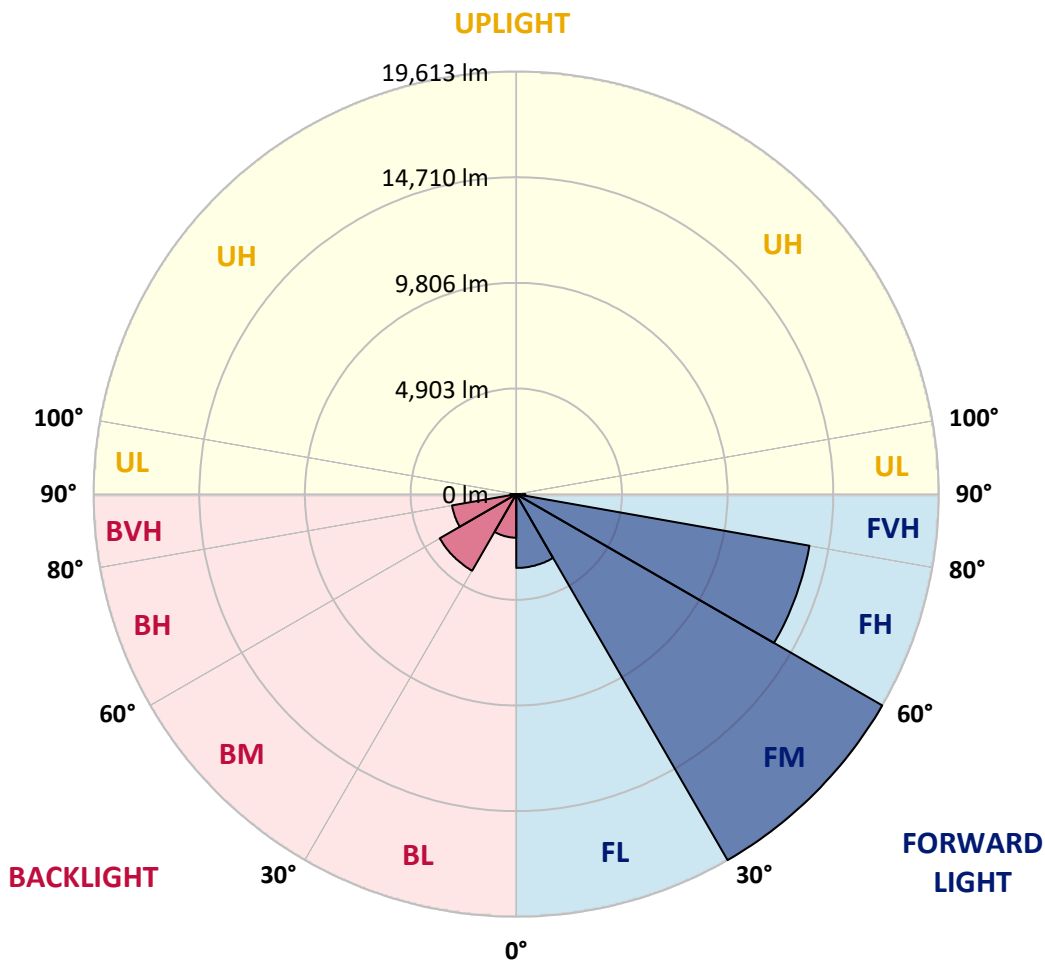
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3424.3	7.3			
FM (30°-60°)	19613.0	42.0			
FH (60°-80°)	13816.5	29.6			G5
FVH (80°-90°)	425.7	0.9			G3/500
BL (0°-30°)	2021.0	4.3	B3/2500		
BM (30°-60°)	4101.0	8.8	B3/5000		
BH (60°-80°)	3026.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	284.1	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°	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5
2.5°	6273.6	6278.7	6278.7	6258.1	6263.3	6278.7	6222.2	6098.9	6098.9	6078.3	6042.3
5°	6658.9	6633.2	6597.3	6602.4	6581.8	6581.8	6520.2	6402.0	6299.3	6258.1	6150.2
7.5°	6710.3	6736.0	6730.8	6792.5	6823.3	6823.3	6854.2	6756.5	6602.4	6504.8	6396.9
10°	6813.1	6746.3	6741.1	6885.0	6931.2	7039.1	7162.4	7111.1	6982.6	6843.9	6700.0
12.5°	6874.7	6915.8	6915.8	6987.8	7095.6	7254.9	7470.7	7568.4	7368.0	7224.1	7003.2
15°	6967.2	6910.7	7075.1	7136.8	7342.3	7455.3	7763.6	8015.4	7881.8	7707.1	7357.7
17.5°	7008.3	6972.3	7064.8	7177.9	7527.2	7696.8	8071.9	8421.3	8308.2	8195.2	7835.5
20°	7219.0	7213.8	7254.9	7347.4	7599.2	7933.2	8400.7	8883.7	8924.8	8719.3	8231.2
22.5°	7732.8	7666.0	7666.0	7630.0	7737.9	8082.2	8714.1	9382.1	9567.1	9325.6	8678.2
25°	8205.5	8298.0	8241.4	8077.0	8035.9	8215.7	8940.2	9911.3	10157.9	9931.9	9284.5
27.5°	8811.8	8842.6	8940.2	8719.3	8436.7	8493.2	9186.8	10209.3	10718.0	10414.8	9628.7
30°	9685.2	9628.7	9608.2	9361.5	8991.6	8914.5	9469.4	10646.0	11452.7	11026.3	10034.6
32.5°	10276.1	10414.8	10409.7	10070.6	9623.6	9454.0	9818.8	11057.1	12238.8	11843.2	10784.8
35°	11447.6	11591.4	11478.4	10980.0	10455.9	10116.8	10322.3	11591.4	13138.0	12829.7	11421.9
37.5°	12942.8	13281.9	13040.4	12120.7	11380.8	11010.8	11021.1	12172.0	14057.7	13805.9	12105.3
40°	13975.5	14432.8	14098.8	13235.6	12449.5	12100.1	11961.4	12860.5	15157.3	14890.1	13174.0
42.5°	15254.9	15635.1	15460.4	14607.5	13687.8	13389.8	13112.3	14011.5	16837.4	16714.1	14545.8
45°	16652.4	16832.3	16775.7	16236.2	15213.8	15111.0	14499.6	15527.2	18815.5	18866.9	16261.9
47.5°	17952.4	18050.0	18157.9	17767.4	17130.3	17217.6	16097.5	17150.8	20737.2	21076.3	18173.3
50°	18286.3	18620.3	18872.1	19134.1	19272.8	19863.7	17859.9	19144.4	22946.5	23604.2	20300.4
52.5°	17947.2	17921.5	18687.1	19509.2	20896.5	22134.7	20259.3	21620.9	24899.0	26198.9	22247.8
55°	16405.8	16354.4	17587.6	18676.8	21384.6	23398.7	23686.4	24919.6	27257.4	28947.8	24883.6
57.5°	13708.3	13389.8	14735.9	16524.0	20326.1	23537.4	27128.9	29816.1	30884.8	32811.6	28906.7
60°	9212.5	9078.9	10368.6	12500.9	16503.4	21569.5	29189.3	35945.8	35997.2	38165.4	35149.4
62.5°	5672.4	5698.1	6525.3	8123.3	11555.5	17099.4	28300.4	40842.4	40852.6	43026.0	40287.5
65°	3709.7	3725.1	4393.0	5276.8	7219.0	11596.6	23403.8	41227.7	44228.3	46247.6	42640.7
66°	3303.8	3308.9	3884.4	4603.7	5980.7	9490.0	20670.4	40225.8	44988.8	46674.1	42609.9
67.5°	2784.8	2851.6	3314.0	3869.0	4665.4	6818.2	16400.7	37327.9	44598.3	46078.0	41643.9
70°	2178.5	2214.5	2579.3	3144.5	3499.0	3946.0	9746.9	30427.5	40821.8	43221.3	38129.5
72.5°	1746.9	1777.8	2055.2	2553.6	2841.3	2599.9	5307.6	22078.2	32246.4	34805.2	29990.8
75°	1474.6	1479.8	1613.3	2009.0	2337.8	1952.5	2825.9	14170.7	20690.9	21883.0	18373.7
77.5°	1192.0	1212.6	1305.1	1531.1	1880.5	1536.3	1685.3	7938.3	10389.1	10476.5	8493.2
80°	971.1	981.4	1037.9	1115.0	1433.5	1135.5	1140.6	3874.1	4454.7	4351.9	3452.8
82.5°	765.6	775.8	842.6	827.2	1053.3	811.8	709.1	1865.1	2050.1	2009.0	1587.7
85°	431.6	431.6	662.8	662.8	667.9	513.8	431.6	878.6	1084.1	1012.2	745.0
87.5°	138.7	143.9	200.4	210.7	334.0	231.2	210.7	328.8	513.8	452.1	267.2
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°	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5	5898.5
2.5°	6021.8	5939.6	5903.6	5785.4	5754.6	5677.5	5641.6	5595.3	5579.9	5513.1	5574.8
5°	6068.0	6042.3	5898.5	5749.5	5636.4	5585.1	5508.0	5405.2	5395.0	5302.5	5292.2
7.5°	6263.3	6175.9	5924.2	5764.9	5538.8	5410.4	5240.8	5189.4	5122.6	5091.8	5158.6
10°	6566.4	6345.5	5970.4	5569.6	5292.2	5138.1	5014.7	4978.8	4983.9	4963.4	4932.5
12.5°	6782.2	6571.6	5893.3	5405.2	5045.6	4896.6	4886.3	4922.3	4978.8	4953.1	4989.0
15°	7090.5	6694.9	5836.8	5132.9	4845.2	4804.1	4798.9	4906.8	4901.7	4901.7	4896.6
17.5°	7378.2	6818.2	5631.3	4896.6	4634.5	4665.4	4701.3	4696.2	4747.6	4768.1	4804.1
20°	7743.0	6962.1	5343.6	4660.2	4475.2	4465.0	4459.8	4465.0	4516.3	4547.2	4521.5
22.5°	8061.6	6992.9	5102.1	4434.1	4285.1	4244.0	4177.2	4244.0	4218.3	4228.6	4259.4
25°	8339.1	6998.0	4757.8	4264.6	4095.0	4002.5	3951.2	3946.0	3899.8	3894.6	3894.6
27.5°	8570.3	6823.3	4454.7	4028.2	3869.0	3781.6	3776.5	3719.9	3601.8	3524.7	3535.0
30°	8750.1	6689.7	4244.0	3822.7	3668.6	3653.2	3606.9	3478.5	3324.3	3226.7	3226.7
32.5°	9068.7	6422.6	3956.3	3612.1	3535.0	3514.4	3406.5	3293.5	3149.6	3057.1	3041.7
35°	9305.0	6175.9	3766.2	3432.2	3396.3	3355.1	3262.7	3139.3	3098.2	3077.7	3093.1
37.5°	9572.2	5898.5	3535.0	3278.1	3314.0	3237.0	3129.1	3072.6	3216.4	3180.5	3195.9
40°	9998.6	5703.2	3308.9	3185.6	3221.6	3134.2	2995.5	2974.9	3154.8	3026.3	2995.5
42.5°	10779.6	5698.1	3170.2	3046.9	3072.6	3005.8	2882.4	2872.2	2944.1	2790.0	2743.7
45°	11750.7	5877.9	3067.4	2944.1	2923.6	2913.3	2872.2	2825.9	2764.3	2563.9	2512.5
47.5°	12911.9	6170.8	3046.9	2790.0	2815.7	2903.0	2851.6	2733.4	2574.2	2445.7	2420.0
50°	14319.8	6777.1	2995.5	2676.9	2723.2	2861.9	2820.8	2656.4	2512.5	2430.3	2414.9
52.5°	15876.6	7542.7	2928.7	2502.2	2605.0	2825.9	2846.5	2692.3	2481.7	2409.7	2399.5
55°	17710.9	8673.0	2851.6	2312.1	2466.3	2790.0	2846.5	2589.6	2440.6	2440.6	2430.3
57.5°	21333.2	10707.7	2692.3	2137.4	2343.0	2723.2	2764.3	2594.7	2445.7	2445.7	2425.2
60°	26645.9	13883.0	2389.2	2003.8	2224.8	2630.7	2702.6	2517.6	2389.2	2420.0	2414.9
62.5°	30802.6	14849.0	2132.3	1875.4	2106.6	2461.1	2620.4	2435.4	2322.4	2435.4	2445.7
65°	31691.5	13872.7	1870.3	1736.7	1942.2	2296.7	2502.2	2317.3	2224.8	2445.7	2456.0
66°	31372.9	13112.3	1777.8	1695.6	1870.3	2214.5	2430.3	2276.2	2173.4	2435.4	2440.6
67.5°	29954.8	11971.7	1675.0	1608.2	1772.6	2096.3	2348.1	2219.6	2091.2	2404.6	2358.4
70°	26872.0	10152.8	1500.3	1454.1	1633.9	1901.1	2158.0	2075.8	1962.7	2214.5	2132.3
72.5°	20696.1	8113.0	1315.3	1320.5	1474.6	1700.7	1967.9	1911.4	1813.7	1942.2	1890.8
75°	12603.6	5184.3	1145.8	1156.1	1284.5	1510.6	1788.0	1746.9	1628.8	1700.7	1675.0
77.5°	5585.1	2569.0	966.0	986.5	1089.3	1330.8	1556.8	1490.0	1366.7	1382.1	1371.9
80°	2168.3	1217.7	786.1	811.8	878.6	1063.6	1289.7	1228.0	1120.1	1099.5	1089.3
82.5°	1043.0	678.2	606.3	616.6	642.3	847.8	1109.8	1032.7	888.9	796.4	796.4
85°	524.1	421.3	426.5	390.5	426.5	575.5	750.2	626.8	518.9	462.4	472.7
87.5°	210.7	210.7	210.7	179.8	190.1	272.3	349.4	236.4	215.8	128.5	128.5
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)