

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: P476650

Luminaire Tested: **IFLD-S-SA6A-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476650
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-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

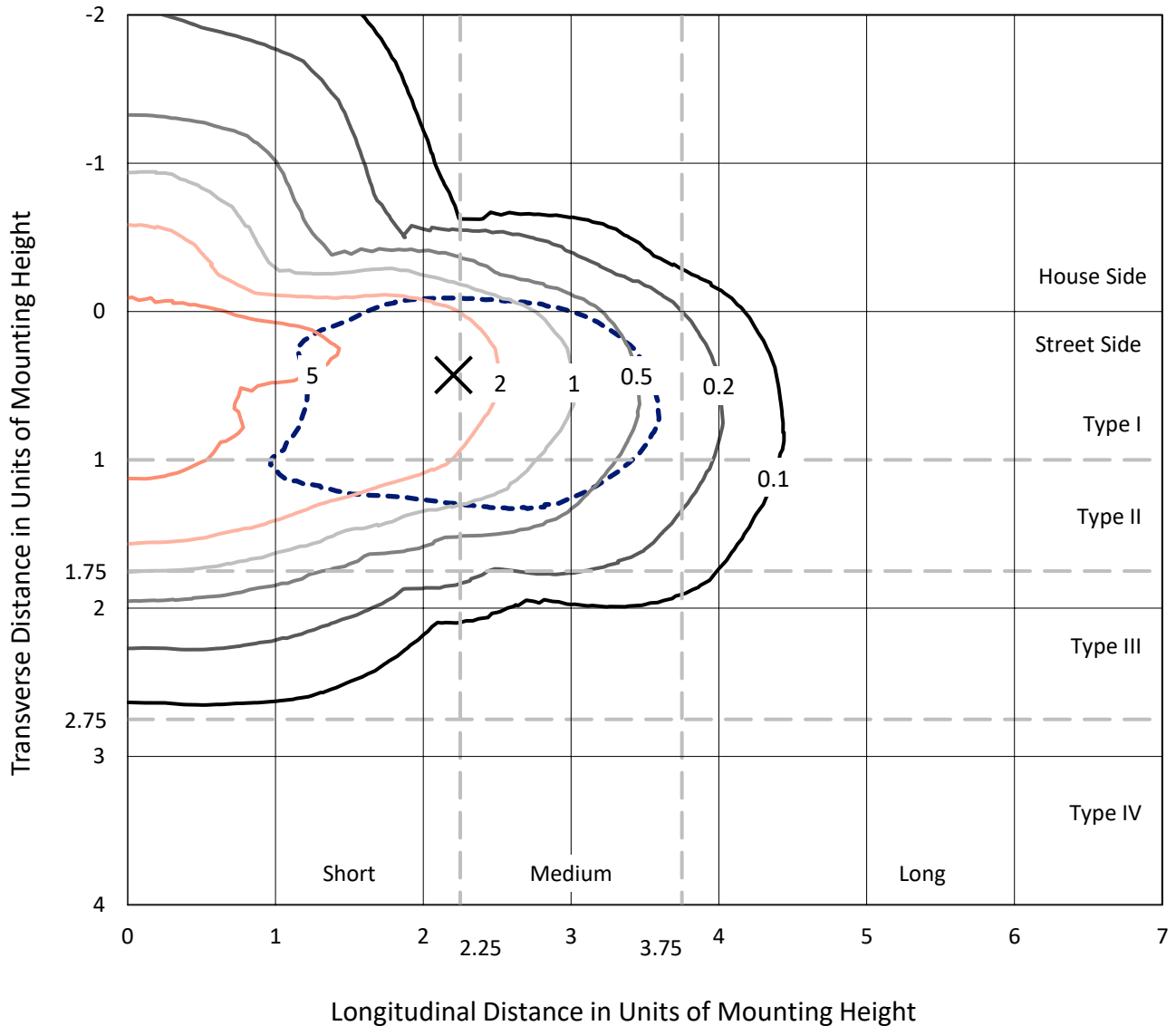
Lumens per Lamp: N/A
Luminaire Lumens: 27574.7 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

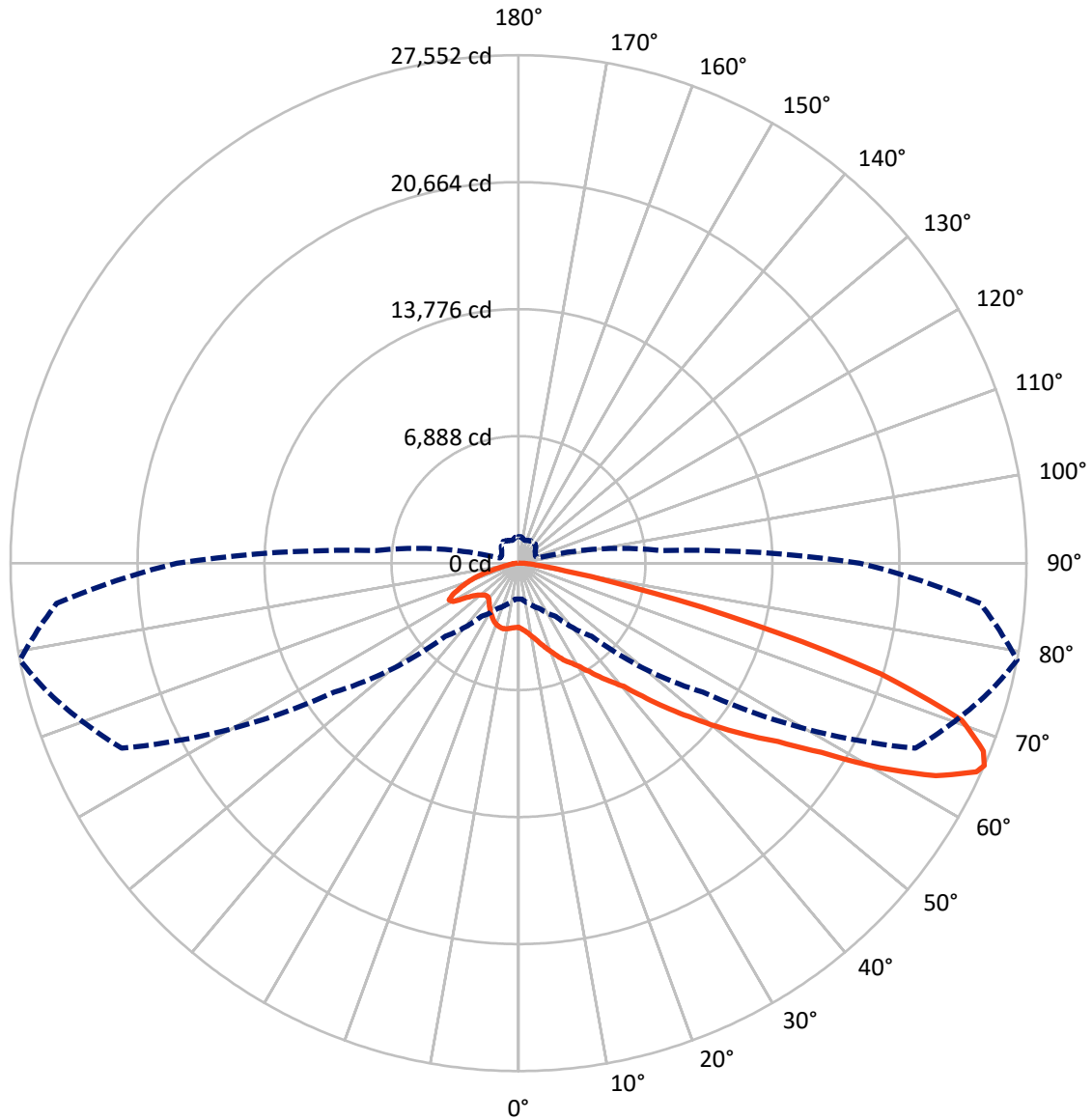
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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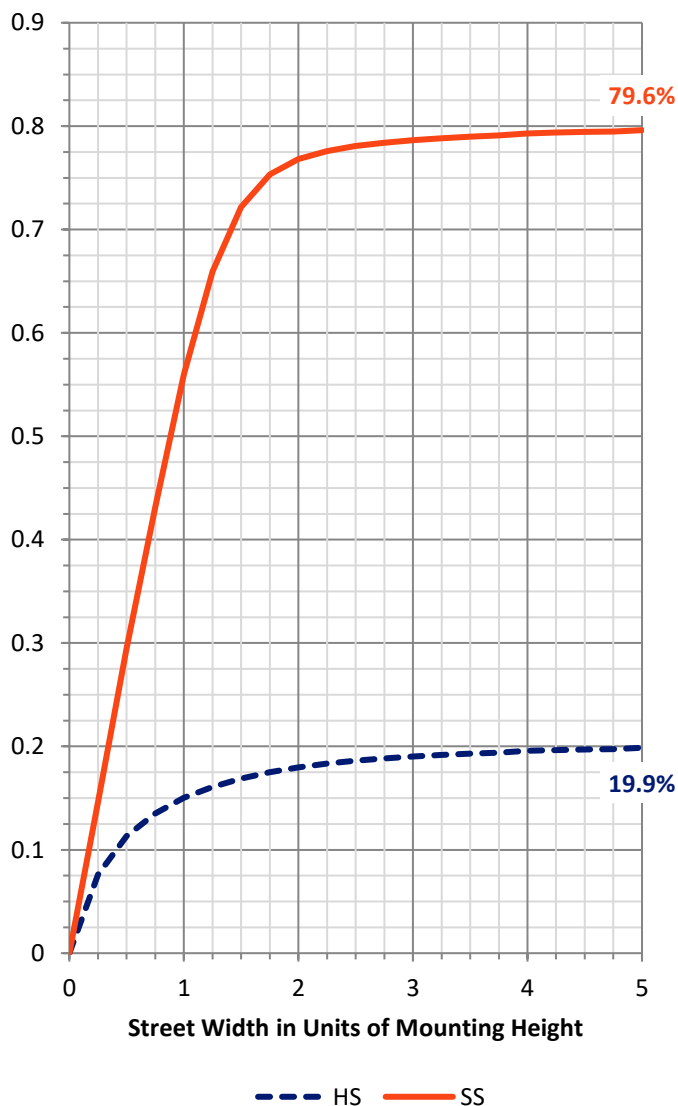
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5568.3	0.0	5568.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22006.4	0.0	22006.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	27574.7	0.0	27574.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	1.2
10°-20°	1057.2	3.8
20°-30°	1814.8	6.6
30°-40°	2803.5	10.2
40°-50°	4490.5	16.3
50°-60°	6704.6	24.3
60°-70°	6889.0	25.0
70°-80°	3053.8	11.1
80°-90°	419.0	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°	27574.7	100.0
0°-180°	27574.7	100.0

Coefficient of Utilization



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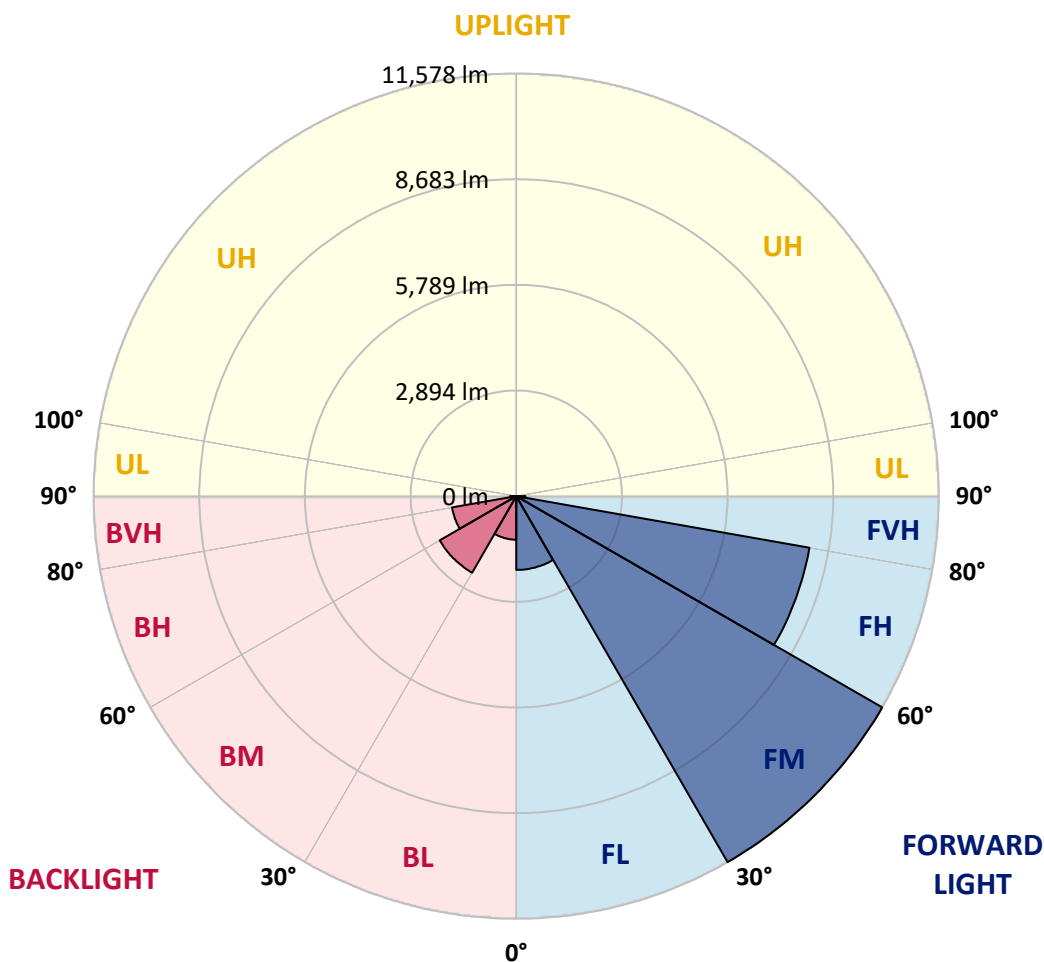
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.4	7.3			
FM (30°-60°)	11577.7	42.0			
FH (60°-80°)	8156.0	29.6			G4/12000
FVH (80°-90°)	251.3	0.9			G3/500
BL (0°-30°)	1193.0	4.3	B3/2500		
BM (30°-60°)	2420.9	8.8	B2/2500		
BH (60°-80°)	1786.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	167.7	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°	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9
2.5°	3703.3	3706.4	3706.4	3694.2	3697.3	3706.4	3673.0	3600.2	3600.2	3588.1	3566.8
5°	3930.8	3915.6	3894.4	3897.4	3885.3	3885.3	3848.9	3779.2	3718.5	3694.2	3630.5
7.5°	3961.1	3976.3	3973.3	4009.7	4027.9	4027.9	4046.1	3988.4	3897.4	3839.8	3776.1
10°	4021.8	3982.4	3979.3	4064.3	4091.6	4155.3	4228.0	4197.7	4121.9	4040.0	3955.1
12.5°	4058.2	4082.5	4082.5	4124.9	4188.6	4282.6	4410.0	4467.7	4349.4	4264.4	4134.0
15°	4112.8	4079.4	4176.5	4212.9	4334.2	4400.9	4582.9	4731.5	4652.7	4549.5	4343.3
17.5°	4137.1	4115.8	4170.4	4237.1	4443.4	4543.5	4764.9	4971.1	4904.4	4837.7	4625.4
20°	4261.4	4258.4	4282.6	4337.2	4485.9	4683.0	4959.0	5244.1	5268.4	5147.1	4858.9
22.5°	4564.7	4525.3	4525.3	4504.0	4567.7	4771.0	5144.0	5538.3	5647.5	5504.9	5122.8
25°	4843.7	4898.3	4865.0	4767.9	4743.7	4849.8	5277.5	5850.7	5996.3	5862.8	5480.7
27.5°	5201.6	5219.8	5277.5	5147.1	4980.2	5013.6	5423.1	6026.6	6326.9	6148.0	5683.9
30°	5717.3	5683.9	5671.8	5526.2	5307.8	5262.3	5589.9	6284.4	6760.6	6508.9	5923.5
32.5°	6066.1	6148.0	6144.9	5944.7	5680.9	5580.8	5796.1	6527.1	7224.7	6991.1	6366.3
35°	6757.6	6842.5	6775.8	6481.6	6172.2	5972.0	6093.4	6842.5	7755.5	7573.5	6742.4
37.5°	7640.2	7840.4	7697.8	7154.9	6718.2	6499.8	6505.8	7185.2	8298.4	8149.8	7145.8
40°	8249.8	8519.8	8322.6	7813.1	7349.0	7142.8	7060.9	7591.7	8947.4	8789.7	7776.7
42.5°	9005.1	9229.5	9126.4	8622.9	8080.0	7904.1	7740.3	8271.1	9939.2	9866.4	8586.5
45°	9830.1	9936.2	9902.8	9584.4	8980.8	8920.1	8559.2	9165.8	11107.0	11137.3	9599.5
47.5°	10597.4	10655.0	10718.7	10488.2	10112.1	10163.7	9502.5	10124.3	12241.3	12441.5	10727.8
50°	10794.6	10991.7	11140.3	11295.0	11376.9	11725.7	10542.8	11301.1	13545.5	13933.7	11983.5
52.5°	10594.4	10579.2	11031.1	11516.4	12335.3	13066.3	11959.2	12763.0	14698.1	15465.4	13133.0
55°	9684.5	9654.1	10382.1	11025.1	12623.5	13812.4	13982.3	14710.2	16090.2	17088.1	14689.0
57.5°	8092.1	7904.1	8698.7	9754.2	11998.7	13894.3	16014.4	17600.7	18231.5	19368.9	17063.8
60°	5438.2	5359.4	6120.7	7379.4	9742.1	12732.7	17230.6	21219.1	21249.4	22529.3	20749.0
62.5°	3348.5	3363.6	3851.9	4795.2	6821.3	10093.9	16705.9	24109.6	24115.6	25398.6	23782.0
65°	2189.8	2198.9	2593.2	3114.9	4261.4	6845.5	13815.5	24337.0	26108.3	27300.3	25171.1
66°	1950.2	1953.3	2293.0	2717.6	3530.4	5602.0	12201.9	23745.6	26557.2	27552.0	25152.9
67.5°	1643.9	1683.3	1956.3	2283.9	2754.0	4024.8	9681.4	22035.0	26326.7	27200.2	24582.7
70°	1286.0	1307.2	1522.6	1856.2	2065.5	2329.4	5753.7	17961.6	24097.4	25513.8	22508.1
72.5°	1031.2	1049.4	1213.2	1507.4	1677.3	1534.7	3133.1	13032.9	19035.3	20545.7	17703.8
75°	870.5	873.5	952.4	1185.9	1380.0	1152.6	1668.2	8365.1	12214.0	12917.7	10846.1
77.5°	703.7	715.8	770.4	903.8	1110.1	906.9	994.8	4686.0	6132.8	6184.3	5013.6
80°	573.2	579.3	612.7	658.2	846.2	670.3	673.3	2286.9	2629.6	2569.0	2038.2
82.5°	451.9	458.0	497.4	488.3	621.8	479.2	418.6	1101.0	1210.2	1185.9	937.2
85°	254.8	254.8	391.3	391.3	394.3	303.3	254.8	518.6	640.0	597.5	439.8
87.5°	81.9	84.9	118.3	124.4	197.1	136.5	124.4	194.1	303.3	266.9	157.7
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°	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9	3481.9
2.5°	3554.7	3506.2	3485.0	3415.2	3397.0	3351.5	3330.3	3303.0	3293.9	3254.4	3290.8
5°	3582.0	3566.8	3481.9	3394.0	3327.2	3296.9	3251.4	3190.7	3184.7	3130.1	3124.0
7.5°	3697.3	3645.7	3497.1	3403.1	3269.6	3193.8	3093.7	3063.4	3023.9	3005.7	3045.2
10°	3876.2	3745.8	3524.4	3287.8	3124.0	3033.0	2960.2	2939.0	2942.0	2929.9	2911.7
12.5°	4003.6	3879.2	3478.9	3190.7	2978.4	2890.5	2884.4	2905.6	2939.0	2923.8	2945.1
15°	4185.6	3952.0	3445.5	3030.0	2860.1	2835.9	2832.9	2896.5	2893.5	2893.5	2890.5
17.5°	4355.4	4024.8	3324.2	2890.5	2735.8	2754.0	2775.2	2772.2	2802.5	2814.7	2835.9
20°	4570.8	4109.8	3154.4	2751.0	2641.8	2635.7	2632.7	2635.7	2666.0	2684.2	2669.1
22.5°	4758.8	4128.0	3011.8	2617.5	2529.5	2505.3	2465.9	2505.3	2490.1	2496.2	2514.4
25°	4922.6	4131.0	2808.6	2517.4	2417.3	2362.7	2332.4	2329.4	2302.1	2299.0	2299.0
27.5°	5059.1	4027.9	2629.6	2377.9	2283.9	2232.3	2229.3	2195.9	2126.2	2080.7	2086.7
30°	5165.3	3949.0	2505.3	2256.6	2165.6	2156.5	2129.2	2053.4	1962.4	1904.7	1904.7
32.5°	5353.3	3791.3	2335.4	2132.2	2086.7	2074.6	2010.9	1944.2	1859.2	1804.7	1795.6
35°	5492.8	3645.7	2223.2	2026.1	2004.8	1980.6	1926.0	1853.2	1828.9	1816.8	1825.9
37.5°	5650.5	3481.9	2086.7	1935.1	1956.3	1910.8	1847.1	1813.8	1898.7	1877.4	1886.5
40°	5902.3	3366.7	1953.3	1880.5	1901.7	1850.1	1768.3	1756.1	1862.3	1786.5	1768.3
42.5°	6363.3	3363.6	1871.4	1798.6	1813.8	1774.3	1701.5	1695.5	1737.9	1646.9	1619.6
45°	6936.5	3469.8	1810.7	1737.9	1725.8	1719.7	1695.5	1668.2	1631.8	1513.5	1483.2
47.5°	7622.0	3642.7	1798.6	1646.9	1662.1	1713.7	1683.3	1613.6	1519.5	1443.7	1428.6
50°	8453.1	4000.6	1768.3	1580.2	1607.5	1689.4	1665.1	1568.1	1483.2	1434.6	1425.5
52.5°	9372.1	4452.5	1728.8	1477.1	1537.7	1668.2	1680.3	1589.3	1465.0	1422.5	1416.4
55°	10454.9	5119.8	1683.3	1364.9	1455.9	1646.9	1680.3	1528.6	1440.7	1440.7	1434.6
57.5°	12593.1	6320.8	1589.3	1261.7	1383.1	1607.5	1631.8	1531.7	1443.7	1443.7	1431.6
60°	15729.3	8195.2	1410.4	1182.9	1313.3	1552.9	1595.4	1486.2	1410.4	1428.6	1425.5
62.5°	18183.0	8765.5	1258.7	1107.1	1243.5	1452.8	1546.8	1437.7	1370.9	1437.7	1443.7
65°	18707.7	8189.2	1104.0	1025.2	1146.5	1355.8	1477.1	1367.9	1313.3	1443.7	1449.8
66°	18519.7	7740.3	1049.4	1000.9	1104.0	1307.2	1434.6	1343.6	1283.0	1437.7	1440.7
67.5°	17682.6	7067.0	988.8	949.3	1046.4	1237.5	1386.1	1310.3	1234.4	1419.5	1392.2
70°	15862.7	5993.3	885.6	858.3	964.5	1122.2	1273.9	1225.3	1158.6	1307.2	1258.7
72.5°	12217.0	4789.2	776.5	779.5	870.5	1003.9	1161.7	1128.3	1070.7	1146.5	1116.2
75°	7440.0	3060.3	676.4	682.4	758.3	891.7	1055.5	1031.2	961.5	1003.9	988.8
77.5°	3296.9	1516.5	570.2	582.3	643.0	785.6	919.0	879.6	806.8	815.9	809.8
80°	1279.9	718.8	464.1	479.2	518.6	627.8	761.3	724.9	661.2	649.1	643.0
82.5°	615.7	400.4	357.9	364.0	379.1	500.4	655.1	609.6	524.7	470.1	470.1
85°	309.4	248.7	251.7	230.5	251.7	339.7	442.8	370.0	306.3	273.0	279.0
87.5°	124.4	124.4	124.4	106.2	112.2	160.8	206.2	139.5	127.4	75.8	75.8
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)