

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: P476740

Luminaire Tested: **IFLD-L-SA7C-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476740
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

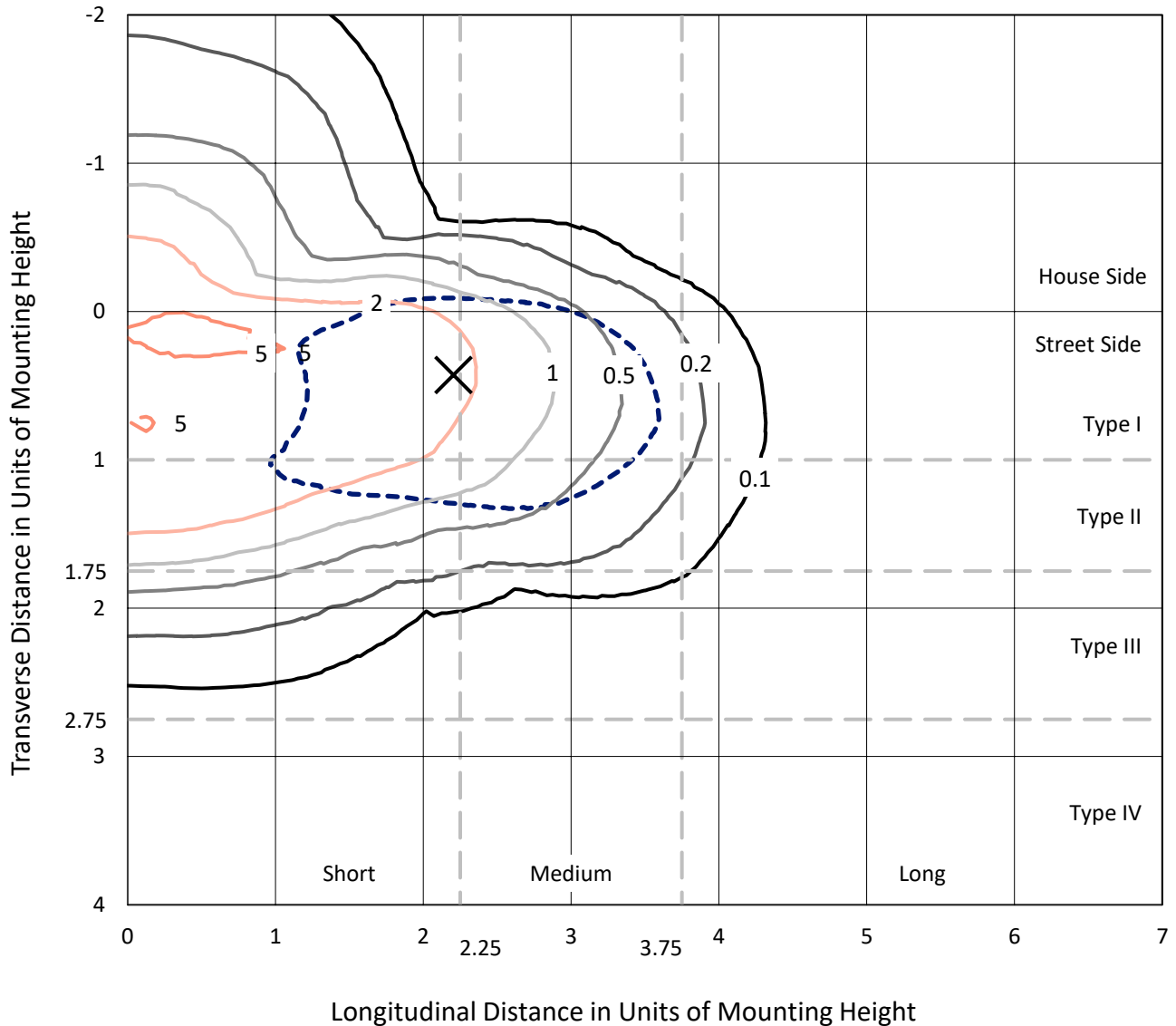
Lumens per Lamp: N/A
Luminaire Lumens: 32548.3 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
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

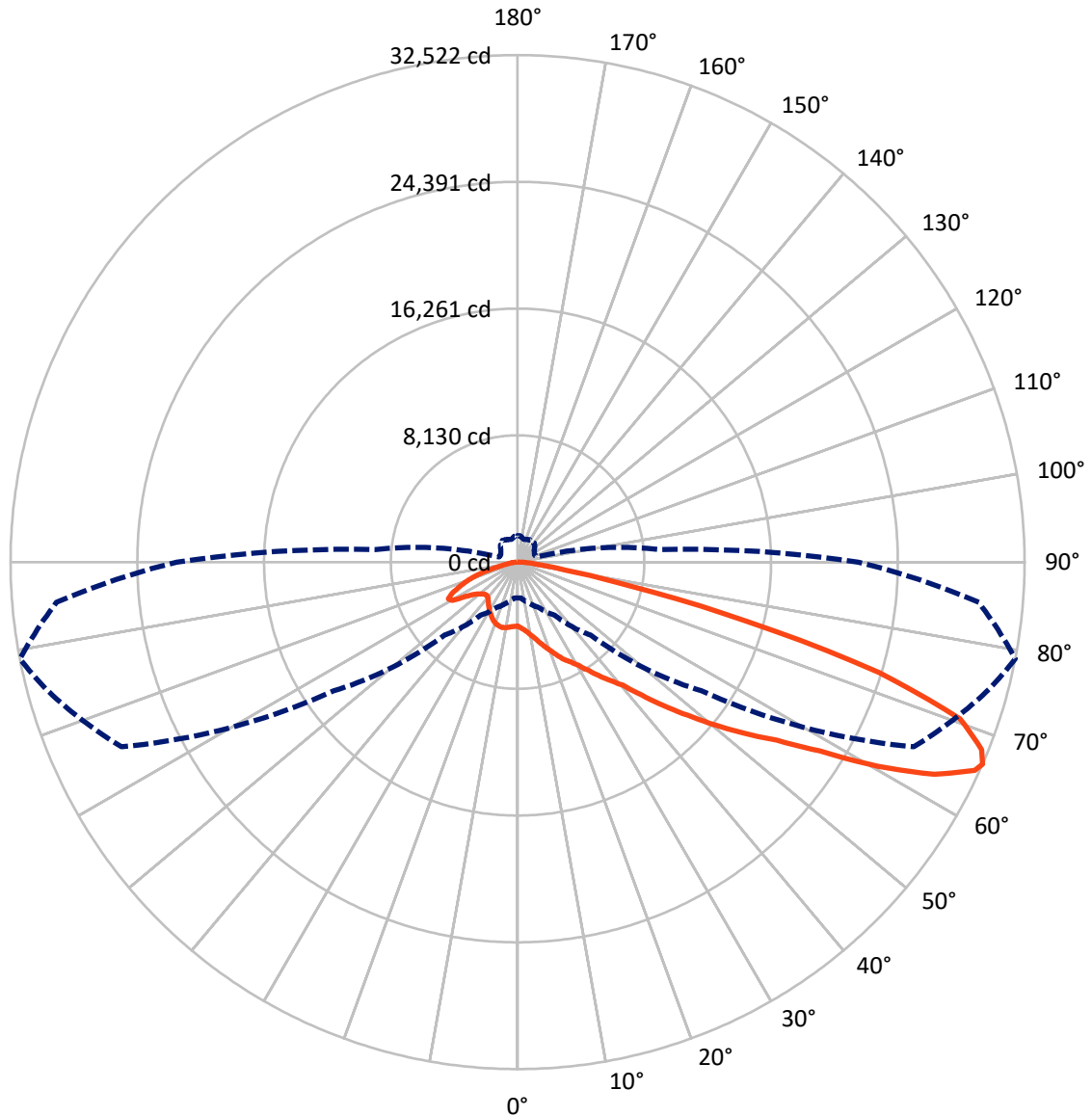
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	6572.7	0.0	6572.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	25975.6	0.0	25975.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	32548.3	0.0	32548.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.1	1.2
10°-20°	1247.9	3.8
20°-30°	2142.1	6.6
30°-40°	3309.1	10.2
40°-50°	5300.4	16.3
50°-60°	7913.9	24.3
60°-70°	8131.5	25.0
70°-80°	3604.6	11.1
80°-90°	494.6	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°	32548.3	100.0
0°-180°	32548.3	100.0



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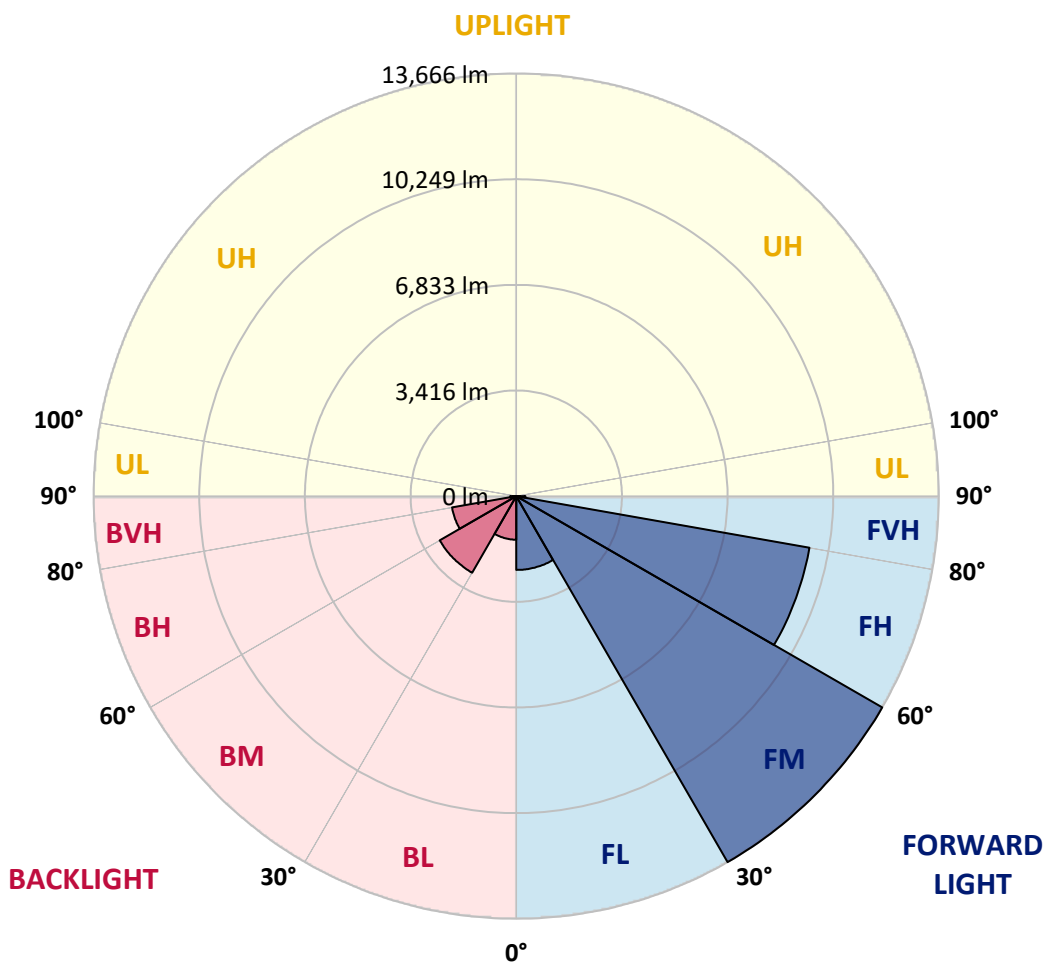
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.0	7.3			
FM (30°-60°)	13665.9	42.0			
FH (60°-80°)	9627.1	29.6			G4/12000
FVH (80°-90°)	296.6	0.9			G3/500
BL (0°-30°)	1408.2	4.3	B3/2500		
BM (30°-60°)	2857.5	8.8	B3/5000		
BH (60°-80°)	2109.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	198.0	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°	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9
2.5°	4371.3	4374.9	4374.9	4360.6	4364.1	4374.9	4335.5	4249.6	4249.6	4235.2	4210.2
5°	4639.8	4621.9	4596.8	4600.4	4586.1	4586.1	4543.1	4460.8	4389.2	4360.6	4285.4
7.5°	4675.6	4693.5	4689.9	4732.9	4754.4	4754.4	4775.8	4707.8	4600.4	4532.4	4457.2
10°	4747.2	4700.7	4697.1	4797.3	4829.5	4904.7	4990.6	4954.8	4865.3	4768.7	4668.4
12.5°	4790.2	4818.8	4818.8	4868.9	4944.1	5055.1	5205.5	5273.5	5133.9	5033.6	4879.7
15°	4854.6	4815.2	4929.8	4972.7	5116.0	5194.7	5409.5	5584.9	5491.9	5370.1	5126.7
17.5°	4883.2	4858.2	4922.6	5001.4	5244.8	5363.0	5624.3	5867.8	5789.0	5710.2	5459.6
20°	5030.0	5026.4	5055.1	5119.5	5295.0	5527.7	5853.4	6190.0	6218.6	6075.4	5735.3
22.5°	5388.0	5341.5	5341.5	5316.4	5391.6	5631.5	6071.8	6537.2	6666.1	6497.9	6046.8
25°	5717.4	5781.8	5742.5	5627.9	5599.3	5724.6	6229.4	6906.0	7077.8	6920.3	6469.2
27.5°	6139.9	6161.3	6229.4	6075.4	5878.5	5917.9	6401.2	7113.6	7468.1	7256.8	6709.1
30°	6748.5	6709.1	6694.8	6522.9	6265.2	6211.5	6598.1	7418.0	7980.0	7682.9	6991.9
32.5°	7160.2	7256.8	7253.3	7017.0	6705.5	6587.4	6841.6	7704.4	8527.8	8252.1	7514.6
35°	7976.4	8076.7	7997.9	7650.7	7285.5	7049.2	7192.4	8076.7	9154.3	8939.5	7958.5
37.5°	9018.3	9254.5	9086.3	8445.4	7929.9	7672.1	7679.3	8481.2	9795.1	9619.7	8434.7
40°	9737.8	10056.5	9823.8	9222.3	8674.6	8431.1	8334.5	8961.0	10561.3	10375.1	9179.4
42.5°	10629.3	10894.2	10772.5	10178.2	9537.4	9329.7	9136.4	9762.9	11732.0	11646.0	10135.2
45°	11603.1	11728.4	11689.0	11313.1	10600.7	10529.0	10103.0	10819.0	13110.3	13146.1	11331.0
47.5°	12508.8	12576.9	12652.0	12380.0	11936.0	11996.9	11216.4	11950.3	14449.3	14685.5	12662.8
50°	12741.5	12974.3	13149.7	13332.3	13428.9	13840.6	12444.4	13339.4	15988.7	16446.9	14144.9
52.5°	12505.3	12487.4	13020.8	13593.6	14560.2	15423.0	14116.3	15065.0	17349.1	18254.9	15501.8
55°	11431.2	11395.4	12254.7	13013.6	14900.3	16303.7	16504.2	17363.4	18992.4	20170.2	17338.4
57.5°	9551.7	9329.7	10267.7	11513.6	14162.8	16400.4	18902.9	20775.3	21519.9	22862.5	20141.6
60°	6419.1	6326.0	7224.6	8710.4	11499.3	15029.2	20338.5	25046.3	25082.1	26592.9	24491.4
62.5°	3952.4	3970.3	4546.7	5660.1	8051.6	11914.5	19719.1	28458.1	28465.3	29979.7	28071.5
65°	2584.8	2595.6	3061.0	3676.8	5030.0	8080.3	16307.3	28726.7	30817.4	32224.4	29711.2
66°	2302.0	2305.6	2706.5	3207.8	4167.2	6612.4	14402.7	28028.5	31347.3	32521.6	29689.7
67.5°	1940.4	1987.0	2309.2	2695.8	3250.7	4750.8	11427.7	26009.4	31075.2	32106.3	29016.6
70°	1518.0	1543.0	1797.2	2191.0	2438.0	2749.5	6791.4	21201.3	28443.8	30115.7	26567.9
72.5°	1217.2	1238.7	1432.0	1779.3	1979.8	1811.5	3698.2	15383.7	22468.7	24251.5	20897.0
75°	1027.5	1031.1	1124.1	1399.8	1628.9	1360.4	1969.1	9873.9	14417.0	15247.6	12802.4
77.5°	830.6	844.9	909.3	1066.9	1310.3	1070.4	1174.3	5531.2	7238.9	7299.8	5917.9
80°	676.6	683.8	723.2	776.9	998.8	791.2	794.8	2699.4	3103.9	3032.3	2405.8
82.5°	533.4	540.6	587.1	576.4	733.9	565.7	494.1	1299.6	1428.5	1399.8	1106.2
85°	300.7	300.7	461.8	461.8	465.4	358.0	300.7	612.2	755.4	705.3	519.1
87.5°	96.7	100.2	139.6	146.8	232.7	161.1	146.8	229.1	358.0	315.0	186.2
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°	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9	4109.9
2.5°	4195.9	4138.6	4113.5	4031.2	4009.7	3956.0	3930.9	3898.7	3888.0	3841.4	3884.4
5°	4228.1	4210.2	4109.9	4006.1	3927.4	3891.6	3837.9	3766.3	3759.1	3694.7	3687.5
7.5°	4364.1	4303.3	4127.8	4016.9	3859.3	3769.8	3651.7	3615.9	3569.4	3547.9	3594.4
10°	4575.4	4421.4	4160.1	3880.8	3687.5	3580.1	3494.2	3469.1	3472.7	3458.4	3436.9
12.5°	4725.7	4578.9	4106.4	3766.3	3515.7	3411.8	3404.7	3429.7	3469.1	3451.2	3476.3
15°	4940.5	4664.9	4067.0	3576.5	3376.0	3347.4	3343.8	3419.0	3415.4	3415.4	3411.8
17.5°	5141.0	4750.8	3923.8	3411.8	3229.2	3250.7	3275.8	3272.2	3308.0	3322.3	3347.4
20°	5395.2	4851.0	3723.3	3247.1	3118.3	3111.1	3107.5	3111.1	3146.9	3168.4	3150.5
22.5°	5617.2	4872.5	3555.0	3089.6	2985.8	2957.2	2910.6	2957.2	2939.3	2946.4	2967.9
25°	5810.5	4876.1	3315.2	2971.5	2853.3	2788.9	2753.1	2749.5	2717.3	2713.7	2713.7
27.5°	5971.6	4754.4	3103.9	2806.8	2695.8	2634.9	2631.4	2592.0	2509.6	2455.9	2463.1
30°	6096.9	4661.3	2957.2	2663.6	2556.2	2545.4	2513.2	2423.7	2316.3	2248.3	2248.3
32.5°	6318.9	4475.1	2756.7	2516.8	2463.1	2448.8	2373.6	2294.8	2194.6	2130.2	2119.4
35°	6483.5	4303.3	2624.2	2391.5	2366.4	2337.8	2273.4	2187.4	2158.8	2144.5	2155.2
37.5°	6669.7	4109.9	2463.1	2284.1	2309.2	2255.5	2180.3	2140.9	2241.1	2216.1	2226.8
40°	6966.9	3973.9	2305.6	2219.7	2244.7	2183.9	2087.2	2072.9	2198.2	2108.7	2087.2
42.5°	7511.0	3970.3	2208.9	2123.0	2140.9	2094.4	2008.4	2001.3	2051.4	1944.0	1911.8
45°	8187.7	4095.6	2137.3	2051.4	2037.1	2029.9	2001.3	1969.1	1926.1	1786.5	1750.7
47.5°	8996.8	4299.7	2123.0	1944.0	1961.9	2022.8	1987.0	1904.6	1793.6	1704.1	1686.2
50°	9977.7	4722.1	2087.2	1865.2	1897.4	1994.1	1965.5	1850.9	1750.7	1693.4	1682.6
52.5°	11062.5	5255.6	2040.7	1743.5	1815.1	1969.1	1983.4	1876.0	1729.2	1679.1	1671.9
55°	12340.6	6043.2	1987.0	1611.0	1718.4	1944.0	1983.4	1804.4	1700.5	1700.5	1693.4
57.5°	14864.5	7460.9	1876.0	1489.3	1632.5	1897.4	1926.1	1807.9	1704.1	1704.1	1689.8
60°	18566.4	9673.4	1664.7	1396.2	1550.2	1833.0	1883.1	1754.2	1664.7	1686.2	1682.6
62.5°	21462.6	10346.5	1485.7	1306.7	1467.8	1714.9	1825.8	1697.0	1618.2	1697.0	1704.1
65°	22082.0	9666.2	1303.2	1210.1	1353.3	1600.3	1743.5	1614.6	1550.2	1704.1	1711.3
66°	21860.0	9136.4	1238.7	1181.4	1303.2	1543.0	1693.4	1586.0	1514.4	1697.0	1700.5
67.5°	20871.9	8341.6	1167.1	1120.6	1235.1	1460.7	1636.1	1546.6	1457.1	1675.5	1643.3
70°	18723.9	7074.3	1045.4	1013.2	1138.5	1324.6	1503.6	1446.4	1367.6	1543.0	1485.7
72.5°	14420.6	5653.0	916.5	920.1	1027.5	1185.0	1371.2	1331.8	1263.8	1353.3	1317.5
75°	8782.0	3612.3	798.4	805.5	895.0	1052.5	1245.9	1217.2	1134.9	1185.0	1167.1
77.5°	3891.6	1790.0	673.1	687.4	759.0	927.2	1084.8	1038.2	952.3	963.0	955.9
80°	1510.8	848.5	547.8	565.7	612.2	741.1	898.6	855.6	780.5	766.1	759.0
82.5°	726.8	472.6	422.5	429.6	447.5	590.7	773.3	719.6	619.4	554.9	554.9
85°	365.2	293.6	297.1	272.1	297.1	401.0	522.7	436.8	361.6	322.2	329.4
87.5°	146.8	146.8	146.8	125.3	132.5	189.7	243.4	164.7	150.4	89.5	89.5
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)