

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: P476739

Luminaire Tested: **IFLD-L-SA7B-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

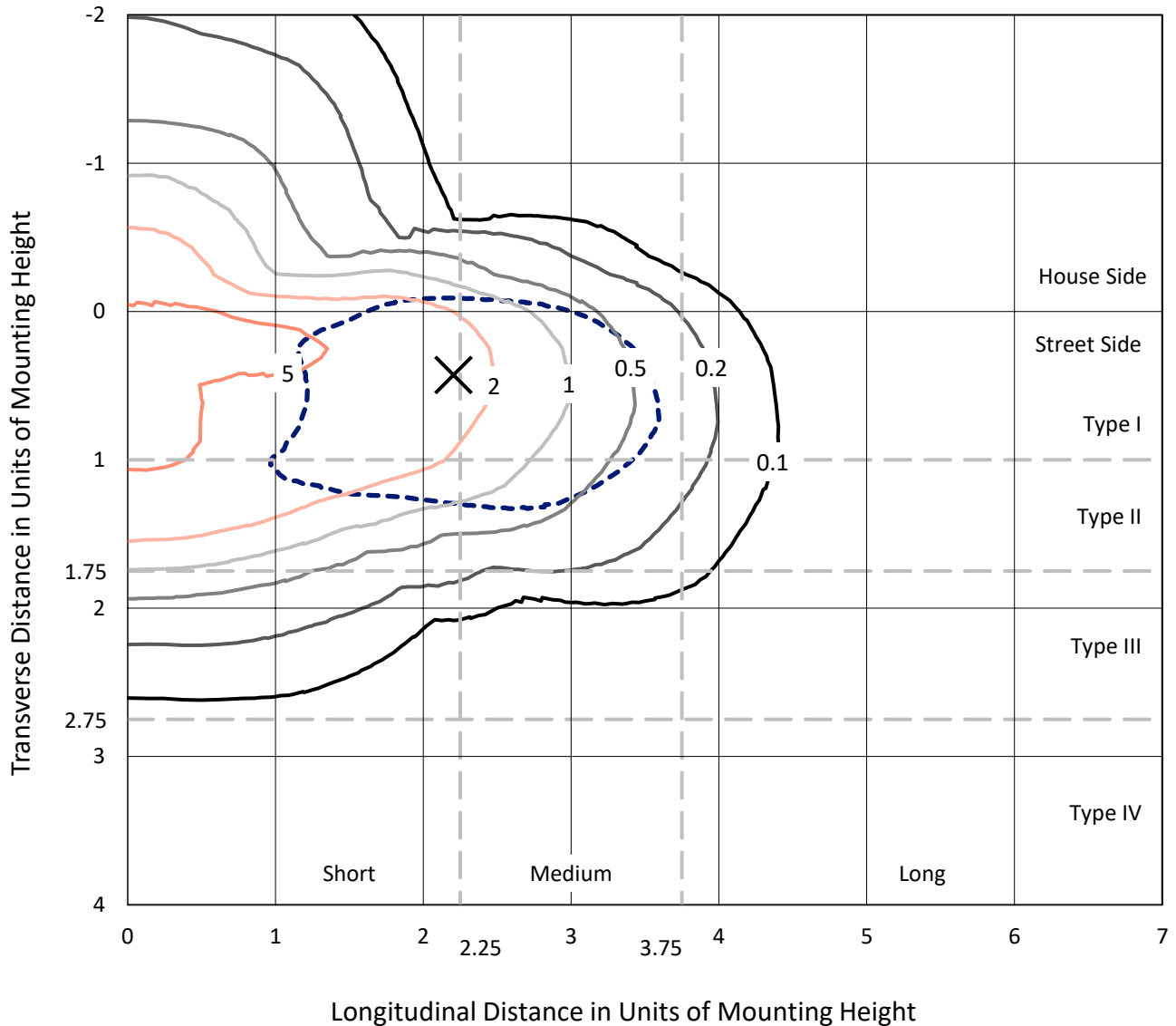
Lumens per Lamp: N/A
Luminaire Lumens: 26146.9 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

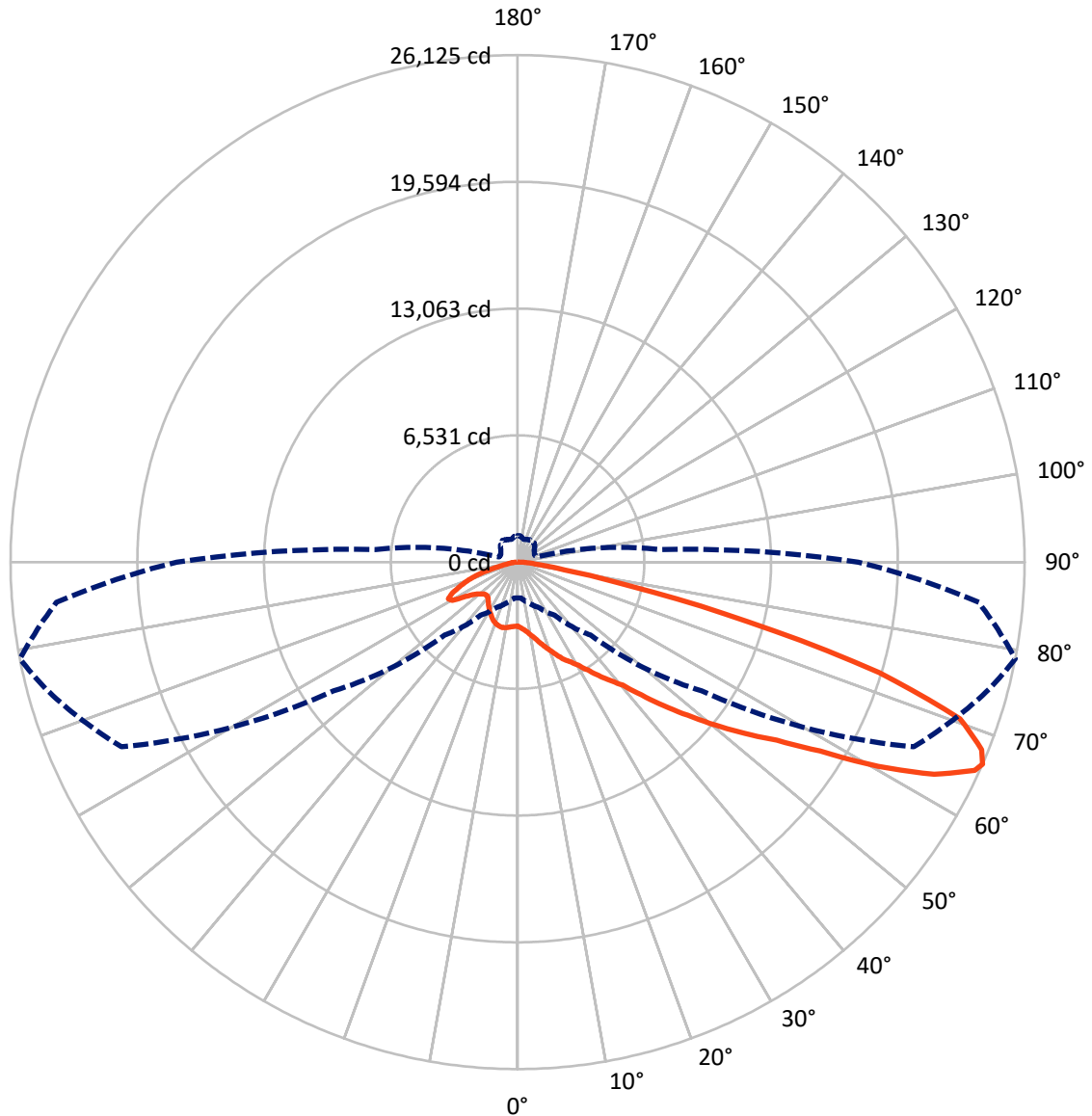
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	5280.0	0.0	5280.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	20866.9	0.0	20866.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	26146.9	0.0	26146.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	1.2
10°-20°	1002.5	3.8
20°-30°	1720.8	6.6
30°-40°	2658.3	10.2
40°-50°	4258.0	16.3
50°-60°	6357.4	24.3
60°-70°	6532.2	25.0
70°-80°	2895.7	11.1
80°-90°	397.3	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°	26146.9	100.0
0°-180°	26146.9	100.0

Coefficient of Utilization



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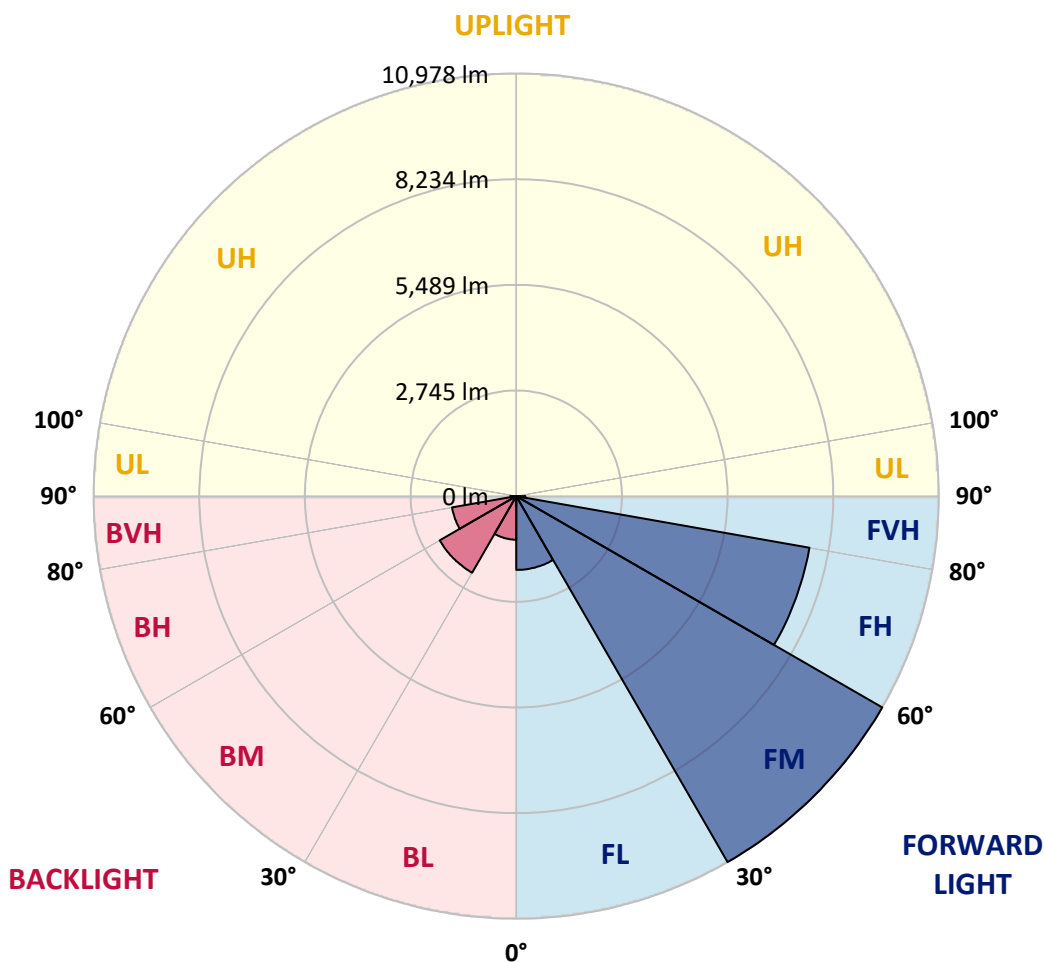
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.7	7.3			
FM (30°-60°)	10978.2	42.0			
FH (60°-80°)	7733.7	29.6			G4/12000
FVH (80°-90°)	238.3	0.9			G3/500
BL (0°-30°)	1131.2	4.3	B3/2500		
BM (30°-60°)	2295.5	8.8	B2/2500		
BH (60°-80°)	1694.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	159.0	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°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3511.6	3514.4	3514.4	3502.9	3505.8	3514.4	3482.8	3413.8	3413.8	3402.3	3382.1
5°	3727.3	3712.9	3692.8	3695.6	3684.1	3684.1	3649.6	3583.5	3525.9	3502.9	3442.5
7.5°	3756.0	3770.4	3767.5	3802.0	3819.3	3819.3	3836.6	3781.9	3695.6	3641.0	3580.6
10°	3813.5	3776.2	3773.3	3853.8	3879.7	3940.1	4009.1	3980.4	3908.5	3830.8	3750.3
12.5°	3848.1	3871.1	3871.1	3911.3	3971.7	4060.9	4181.7	4236.3	4124.2	4043.6	3920.0
15°	3899.8	3868.2	3960.2	3994.7	4109.8	4173.0	4345.6	4486.5	4411.7	4314.0	4118.4
17.5°	3922.8	3902.7	3954.5	4017.7	4213.3	4308.2	4518.2	4713.7	4650.5	4587.2	4385.9
20°	4040.7	4037.9	4060.9	4112.6	4253.6	4440.5	4702.2	4972.6	4995.6	4880.5	4607.3
22.5°	4328.3	4291.0	4291.0	4270.8	4331.2	4523.9	4877.7	5251.5	5355.1	5219.9	4857.5
25°	4592.9	4644.7	4613.1	4521.0	4498.0	4598.7	5004.2	5547.8	5685.8	5559.3	5196.9
27.5°	4932.3	4949.6	5004.2	4880.5	4722.4	4754.0	5142.2	5714.6	5999.3	5829.6	5389.6
30°	5421.2	5389.6	5378.1	5240.0	5033.0	4989.8	5300.4	5959.0	6410.6	6171.8	5616.8
32.5°	5752.0	5829.6	5826.7	5636.9	5386.7	5291.8	5496.0	6189.1	6850.6	6629.1	6036.7
35°	6407.7	6488.2	6424.9	6146.0	5852.6	5662.8	5777.8	6488.2	7353.9	7181.3	6393.3
37.5°	7244.6	7434.4	7299.2	6784.4	6370.3	6163.2	6169.0	6813.2	7868.7	7727.7	6775.8
40°	7822.7	8078.6	7891.7	7408.5	6968.5	6772.9	6695.3	7198.6	8484.1	8334.6	7374.0
42.5°	8538.8	8751.6	8653.8	8176.4	7661.6	7494.8	7339.5	7842.8	9424.6	9355.6	8141.9
45°	9321.0	9421.7	9390.1	9088.1	8515.8	8458.2	8116.0	8691.2	10531.8	10560.6	9102.5
47.5°	10048.7	10103.3	10163.7	9945.1	9588.5	9637.4	9010.4	9600.0	11607.4	11797.3	10172.3
50°	10235.6	10422.5	10563.5	10710.1	10787.8	11118.5	9996.9	10715.9	12844.1	13212.2	11363.0
52.5°	10045.8	10031.4	10459.9	10920.1	11696.6	12389.7	11340.0	12102.1	13937.0	14664.6	12453.0
55°	9183.0	9154.2	9844.5	10454.2	11969.8	13097.2	13258.3	13948.5	15257.1	16203.3	13928.4
57.5°	7673.1	7494.8	8248.3	9249.1	11377.4	13174.8	15185.2	16689.3	17287.5	18366.0	16180.2
60°	5156.6	5081.9	5803.7	6997.3	9237.6	12073.4	16338.4	20120.3	20149.1	21362.8	19674.6
62.5°	3175.1	3189.5	3652.5	4546.9	6468.1	9571.3	15840.9	22861.1	22866.9	24083.4	22550.5
65°	2076.5	2085.1	2459.0	2953.6	4040.7	6491.1	13100.1	23076.8	24756.4	25886.7	23867.7
66°	1849.3	1852.1	2174.2	2576.9	3347.6	5311.9	11570.1	22516.0	25182.1	26125.4	23850.5
67.5°	1558.8	1596.2	1855.0	2165.6	2611.4	3816.4	9180.1	20894.0	24963.5	25791.8	23309.8
70°	1219.4	1239.5	1443.7	1760.1	1958.5	2208.8	5455.7	17031.5	22849.6	24192.7	21342.6
72.5°	977.8	995.1	1150.4	1429.4	1590.4	1455.2	2970.9	12358.1	18049.6	19481.9	16787.1
75°	825.4	828.3	903.1	1124.5	1308.6	1092.9	1581.8	7931.9	11581.6	12248.8	10284.5
77.5°	667.2	678.7	730.5	857.0	1052.6	859.9	943.3	4443.4	5815.2	5864.1	4754.0
80°	543.6	549.3	580.9	624.1	802.4	635.6	638.5	2168.5	2493.5	2436.0	1932.7
82.5°	428.5	434.3	471.7	463.0	589.6	454.4	396.9	1044.0	1147.5	1124.5	888.7
85°	241.6	241.6	371.0	371.0	373.9	287.6	241.6	491.8	606.8	566.6	417.0
87.5°	77.7	80.5	112.2	117.9	186.9	129.4	117.9	184.1	287.6	253.1	149.6
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°	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6	3301.6
2.5°	3370.6	3324.6	3304.5	3238.3	3221.1	3178.0	3157.8	3131.9	3123.3	3085.9	3120.4
5°	3396.5	3382.1	3301.6	3218.2	3154.9	3126.2	3083.0	3025.5	3019.8	2968.0	2962.3
7.5°	3505.8	3456.9	3316.0	3226.8	3100.3	3028.4	2933.5	2904.7	2867.3	2850.1	2887.5
10°	3675.5	3551.8	3341.9	3117.6	2962.3	2876.0	2807.0	2786.8	2789.7	2778.2	2760.9
12.5°	3796.3	3678.4	3298.7	3025.5	2824.2	2740.8	2735.1	2755.2	2786.8	2772.4	2792.6
15°	3968.8	3747.4	3267.1	2873.1	2712.0	2689.0	2686.2	2746.6	2743.7	2743.7	2740.8
17.5°	4129.9	3816.4	3152.1	2740.8	2594.1	2611.4	2631.5	2628.6	2657.4	2668.9	2689.0
20°	4334.1	3896.9	2991.0	2608.5	2505.0	2499.2	2496.3	2499.2	2528.0	2545.2	2530.9
22.5°	4512.4	3914.2	2855.8	2482.0	2398.6	2375.6	2338.2	2375.6	2361.2	2366.9	2384.2
25°	4667.7	3917.1	2663.2	2387.1	2292.2	2240.4	2211.6	2208.8	2182.9	2180.0	2180.0
27.5°	4797.1	3819.3	2493.5	2254.8	2165.6	2116.7	2113.8	2082.2	2016.1	1972.9	1978.7
30°	4897.8	3744.5	2375.6	2139.7	2053.4	2044.8	2018.9	1947.0	1860.8	1806.1	1806.1
32.5°	5076.1	3595.0	2214.5	2021.8	1978.7	1967.2	1906.8	1843.5	1763.0	1711.2	1702.6
35°	5208.4	3456.9	2108.1	1921.2	1901.0	1878.0	1826.2	1757.2	1734.2	1722.7	1731.3
37.5°	5357.9	3301.6	1978.7	1834.9	1855.0	1811.9	1751.5	1719.8	1800.4	1780.2	1788.9
40°	5596.7	3192.3	1852.1	1783.1	1803.2	1754.3	1676.7	1665.2	1765.8	1694.0	1676.7
42.5°	6033.8	3189.5	1774.5	1705.5	1719.8	1682.4	1613.4	1607.7	1647.9	1561.7	1535.8
45°	6577.4	3290.1	1717.0	1647.9	1636.4	1630.7	1607.7	1581.8	1547.3	1435.1	1406.4
47.5°	7227.3	3454.0	1705.5	1561.7	1576.0	1624.9	1596.2	1530.0	1440.9	1369.0	1354.6
50°	8015.3	3793.4	1676.7	1498.4	1524.3	1601.9	1578.9	1486.9	1406.4	1360.3	1351.7
52.5°	8886.8	4221.9	1639.3	1400.6	1458.1	1581.8	1593.3	1507.0	1389.1	1348.8	1343.1
55°	9913.5	4854.6	1596.2	1294.2	1380.5	1561.7	1593.3	1449.5	1366.1	1366.1	1360.3
57.5°	11941.1	5993.5	1507.0	1196.4	1311.4	1524.3	1547.3	1452.4	1369.0	1369.0	1357.5
60°	14914.8	7770.9	1337.3	1121.6	1245.3	1472.5	1512.8	1409.2	1337.3	1354.6	1351.7
62.5°	17241.5	8311.6	1193.5	1049.7	1179.2	1377.6	1466.7	1363.2	1299.9	1363.2	1369.0
65°	17739.0	7765.1	1046.9	972.1	1087.1	1285.6	1400.6	1297.1	1245.3	1369.0	1374.7
66°	17560.7	7339.5	995.1	949.1	1046.9	1239.5	1360.3	1274.1	1216.5	1363.2	1366.1
67.5°	16766.9	6701.0	937.6	900.2	992.2	1173.4	1314.3	1242.4	1170.5	1346.0	1320.1
70°	15041.4	5682.9	839.8	813.9	914.6	1064.1	1207.9	1161.9	1098.6	1239.5	1193.5
72.5°	11584.4	4541.2	736.3	739.1	825.4	951.9	1101.5	1069.9	1015.2	1087.1	1058.4
75°	7054.8	2901.9	641.3	647.1	719.0	845.5	1000.8	977.8	911.7	951.9	937.6
77.5°	3126.2	1438.0	540.7	552.2	609.7	744.9	871.4	834.0	765.0	773.6	767.9
80°	1213.7	681.6	440.0	454.4	491.8	595.3	721.9	687.4	627.0	615.5	609.7
82.5°	583.8	379.6	339.4	345.1	359.5	474.5	621.2	578.1	497.5	445.8	445.8
85°	293.3	235.8	238.7	218.6	238.7	322.1	419.9	350.9	290.5	258.8	264.6
87.5°	117.9	117.9	117.9	100.7	106.4	152.4	195.6	132.3	120.8	71.9	71.9
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)