

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: P476776

Luminaire Tested: **IFLD-M-SA4E-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476776
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

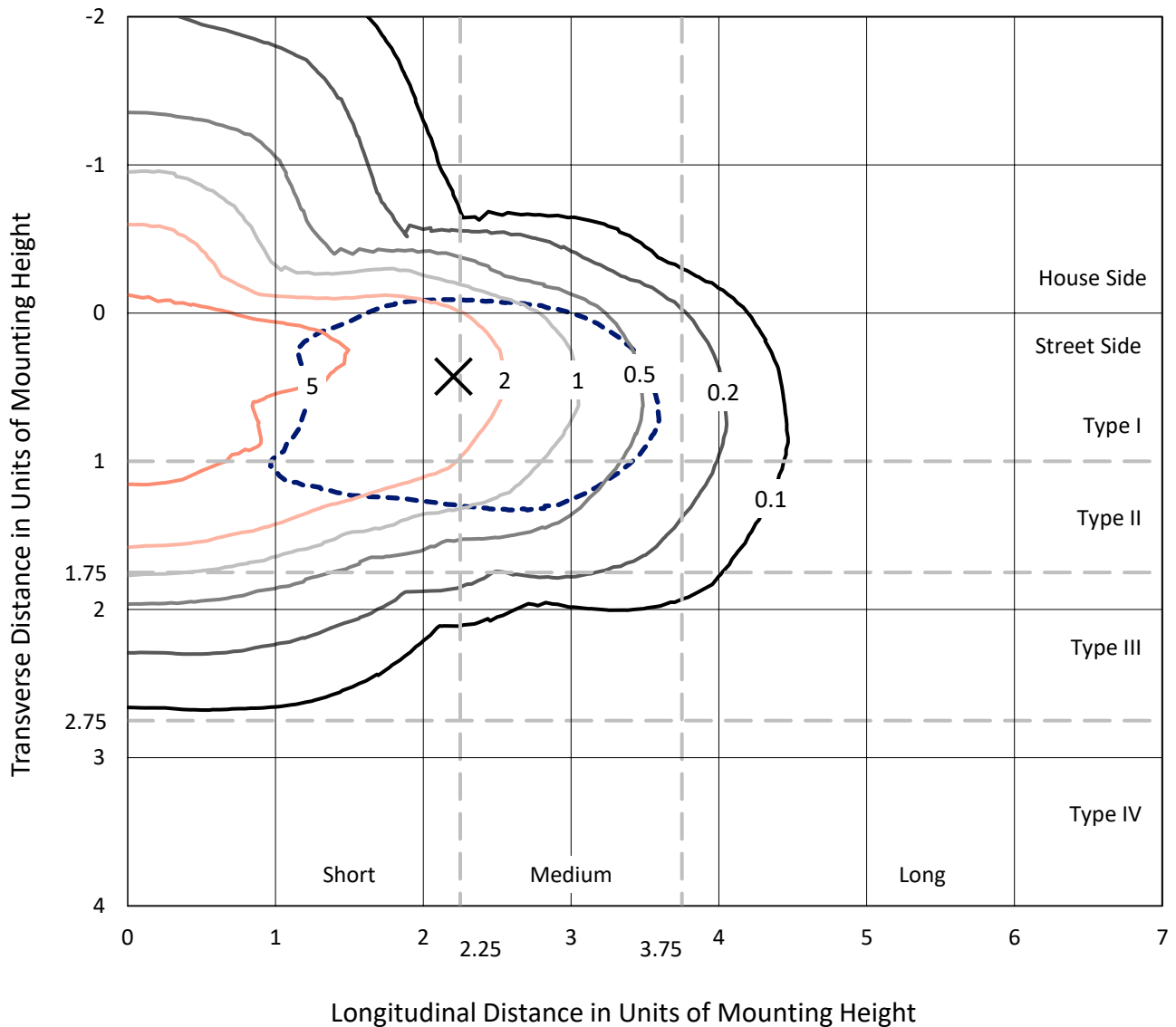
Lumens per Lamp: N/A
Luminaire Lumens: 28733.5 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

REPORT NUMBER: P476776
 CATALOG NUMBER: IFLD-M-SA4E-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

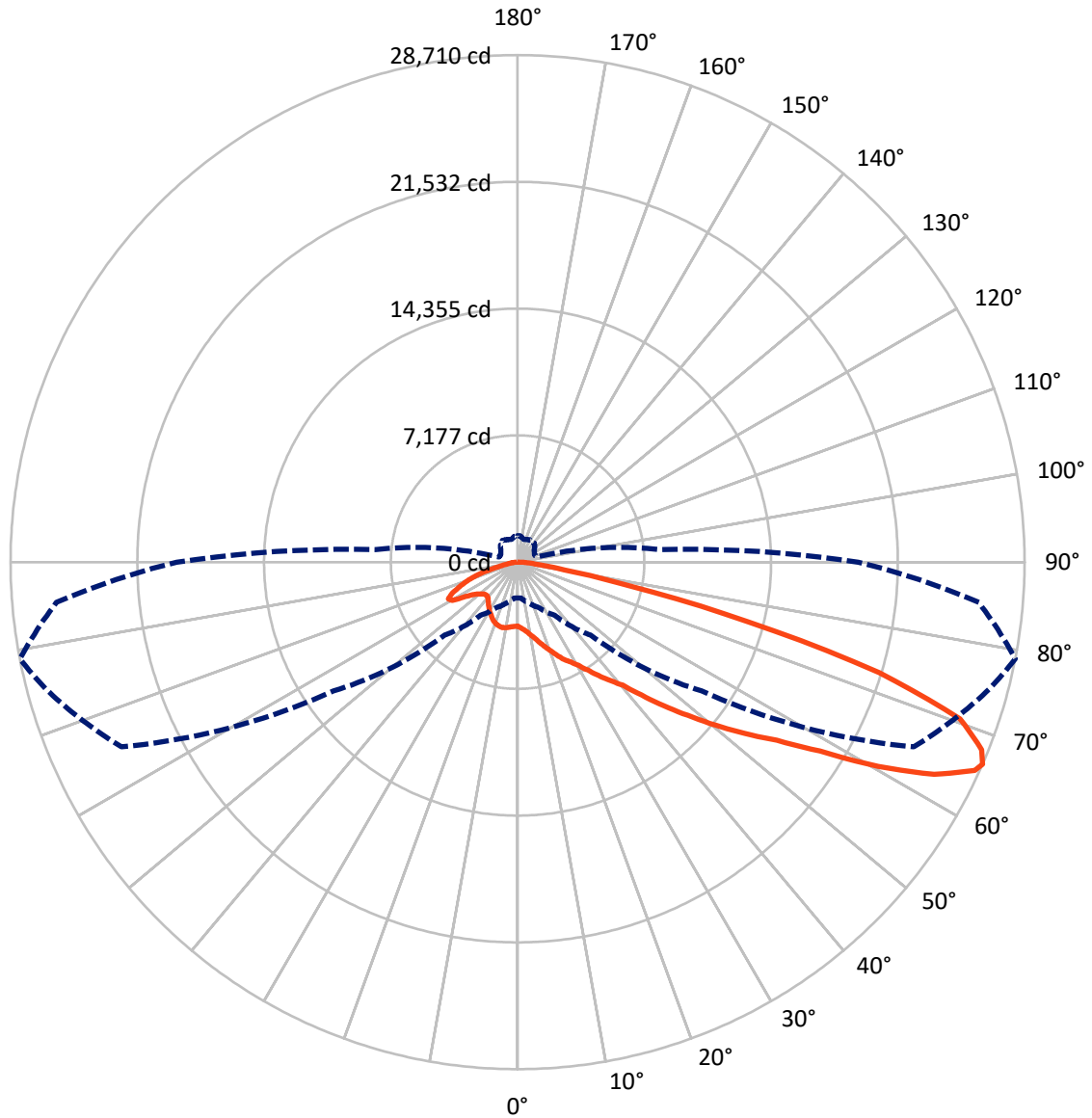
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P476776
CATALOG NUMBER: IFLD-M-SA4E-830-U-T2

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	5802.3	0.0	5802.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22931.1	0.0	22931.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	28733.5	0.0	28733.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	1.2
10°-20°	1101.7	3.8
20°-30°	1891.0	6.6
30°-40°	2921.3	10.2
40°-50°	4679.2	16.3
50°-60°	6986.3	24.3
60°-70°	7178.5	25.0
70°-80°	3182.1	11.1
80°-90°	436.6	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°	28733.5	100.0
0°-180°	28733.5	100.0

Coefficient of Utilization



REPORT NUMBER: P476776

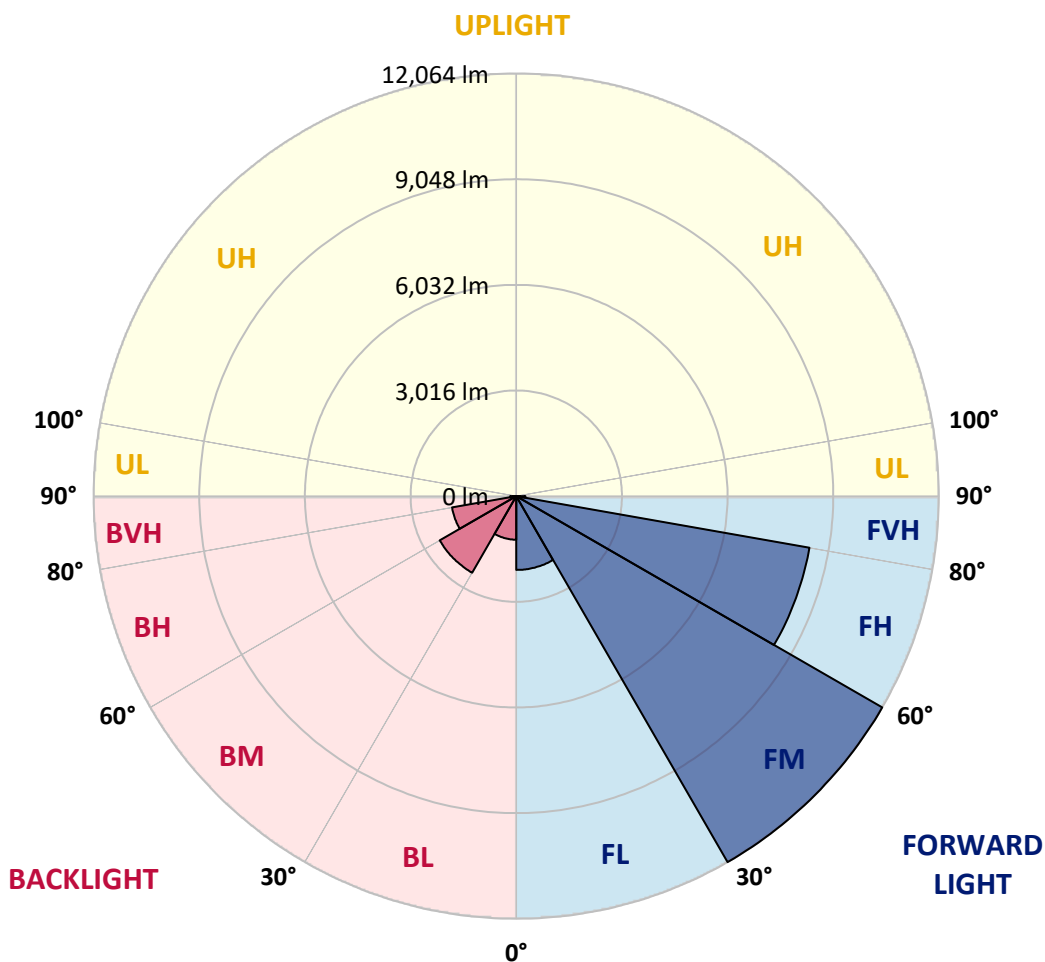
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.3	7.3			
FM (30°-60°)	12064.2	42.0			
FH (60°-80°)	8498.7	29.6			G4/12000
FVH (80°-90°)	261.9	0.9			G3/500
BL (0°-30°)	1243.1	4.3	B3/2500		
BM (30°-60°)	2522.6	8.8	B3/5000		
BH (60°-80°)	1861.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	174.7	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





REPORT NUMBER: P476776

CATALOG NUMBER: IFLD-M-SA4E-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2
2.5°	3859.0	3862.1	3862.1	3849.5	3852.6	3862.1	3827.3	3751.5	3751.5	3738.9	3716.7
5°	4096.0	4080.2	4058.1	4061.2	4048.6	4048.6	4010.7	3938.0	3874.8	3849.5	3783.1
7.5°	4127.6	4143.4	4140.2	4178.2	4197.1	4197.1	4216.1	4156.0	4061.2	4001.2	3934.8
10°	4190.8	4149.7	4146.6	4235.1	4263.5	4329.9	4405.7	4374.1	4295.1	4209.8	4121.3
12.5°	4228.7	4254.0	4254.0	4298.3	4364.6	4462.6	4595.3	4655.4	4532.1	4443.6	4307.7
15°	4285.6	4250.9	4352.0	4389.9	4516.3	4585.9	4775.5	4930.4	4848.2	4740.7	4525.8
17.5°	4310.9	4288.8	4345.7	4415.2	4630.1	4734.4	4965.1	5180.0	5110.5	5041.0	4819.7
20°	4440.5	4437.3	4462.6	4519.5	4674.4	4879.8	5167.4	5464.5	5489.8	5363.3	5063.1
22.5°	4756.5	4715.4	4715.4	4693.3	4759.7	4971.4	5360.2	5771.0	5884.8	5736.3	5338.1
25°	5047.3	5104.2	5069.4	4968.3	4943.0	5053.6	5499.2	6096.6	6248.3	6109.2	5711.0
27.5°	5420.2	5439.2	5499.2	5363.3	5189.5	5224.3	5650.9	6279.9	6592.8	6406.3	5922.7
30°	5957.5	5922.7	5910.1	5758.4	5530.8	5483.4	5824.8	6548.5	7044.7	6782.4	6172.4
32.5°	6321.0	6406.3	6403.1	6194.6	5919.6	5815.3	6039.7	6801.4	7528.3	7284.9	6633.9
35°	7041.6	7130.1	7060.5	6754.0	6431.6	6223.0	6349.4	7130.1	8081.4	7891.7	7025.8
37.5°	7961.3	8169.9	8021.3	7455.6	7000.5	6772.9	6779.2	7487.2	8647.1	8492.2	7446.1
40°	8596.5	8877.8	8672.4	8141.4	7657.9	7442.9	7357.6	7910.7	9323.4	9159.1	8103.5
42.5°	9383.5	9617.4	9509.9	8985.3	8419.5	8236.2	8065.6	8618.6	10356.9	10281.1	8947.3
45°	10243.1	10353.8	10319.0	9987.1	9358.2	9295.0	8918.9	9551.0	11573.7	11605.3	10002.9
47.5°	11042.7	11102.8	11169.2	10929.0	10537.1	10590.8	9901.8	10549.7	12755.7	12964.3	11178.6
50°	11248.2	11453.6	11608.5	11769.6	11855.0	12218.4	10985.8	11776.0	14114.7	14519.3	12487.1
52.5°	11039.6	11023.8	11494.7	12000.4	12853.7	13615.4	12461.8	13299.3	15315.7	16115.3	13684.9
55°	10091.4	10059.8	10818.3	11488.4	13153.9	14392.9	14569.8	15328.4	16766.4	17806.2	15306.2
57.5°	8432.2	8236.2	9064.3	10164.1	12502.9	14478.2	16687.4	18340.3	18997.7	20182.9	17780.9
60°	5666.8	5584.6	6377.9	7689.5	10151.5	13267.7	17954.7	22110.8	22142.4	23476.1	21620.9
62.5°	3489.2	3505.0	4013.8	4996.7	7107.9	10518.1	17408.0	25122.7	25129.0	26465.9	24781.4
65°	2281.9	2291.4	2702.2	3245.8	4440.5	7133.2	14396.0	25359.7	27205.5	28447.5	26228.9
66°	2032.2	2035.4	2389.3	2831.8	3678.8	5837.4	12714.6	24743.4	27673.2	28709.9	26209.9
67.5°	1713.0	1754.1	2038.5	2379.8	2869.7	4194.0	10088.3	22960.9	27433.0	28343.2	25615.7
70°	1340.0	1362.2	1586.6	1934.2	2152.3	2427.3	5995.4	18716.4	25110.1	26586.0	23454.0
72.5°	1074.6	1093.5	1264.2	1570.8	1747.7	1599.2	3264.8	13580.6	19835.2	21409.1	18447.8
75°	907.1	910.2	992.4	1235.7	1438.0	1201.0	1738.3	8716.6	12727.3	13460.5	11301.9
77.5°	733.2	745.9	802.8	941.8	1156.7	945.0	1036.6	4883.0	6390.5	6444.2	5224.3
80°	597.3	603.7	638.4	685.8	881.8	698.5	701.6	2383.0	2740.1	2676.9	2123.8
82.5°	470.9	477.2	518.3	508.8	647.9	499.4	436.1	1147.3	1261.0	1235.7	976.6
85°	265.5	265.5	407.7	407.7	410.9	316.0	265.5	540.4	666.9	622.6	458.3
87.5°	85.3	88.5	123.3	129.6	205.4	142.2	129.6	202.3	316.0	278.1	164.3
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°	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2
2.5°	3704.1	3653.5	3631.4	3558.7	3539.7	3492.3	3470.2	3441.8	3432.3	3391.2	3429.1
5°	3732.5	3716.7	3628.2	3536.6	3467.1	3435.4	3388.0	3324.8	3318.5	3261.6	3255.3
7.5°	3852.6	3798.9	3644.0	3546.1	3407.0	3328.0	3223.7	3192.1	3151.0	3132.0	3173.1
10°	4039.1	3903.2	3672.5	3426.0	3255.3	3160.5	3084.6	3062.5	3065.7	3053.0	3034.1
12.5°	4171.8	4042.3	3625.1	3324.8	3103.6	3011.9	3005.6	3027.7	3062.5	3046.7	3068.8
15°	4361.5	4118.1	3590.3	3157.3	2980.3	2955.1	2951.9	3018.3	3015.1	3015.1	3011.9
17.5°	4538.5	4194.0	3463.9	3011.9	2850.8	2869.7	2891.8	2888.7	2920.3	2932.9	2955.1
20°	4762.9	4282.5	3286.9	2866.6	2752.8	2746.5	2743.3	2746.5	2778.1	2797.0	2781.2
22.5°	4958.8	4301.4	3138.4	2727.5	2635.8	2610.6	2569.5	2610.6	2594.8	2601.1	2620.0
25°	5129.5	4304.6	2926.6	2623.2	2518.9	2462.0	2430.4	2427.3	2398.8	2395.6	2395.6
27.5°	5271.7	4197.1	2740.1	2477.8	2379.8	2326.1	2323.0	2288.2	2215.5	2168.1	2174.4
30°	5382.3	4115.0	2610.6	2351.4	2256.6	2247.1	2218.7	2139.6	2044.8	1984.8	1984.8
32.5°	5578.3	3950.6	2433.6	2221.8	2174.4	2161.8	2095.4	2025.9	1937.4	1880.5	1871.0
35°	5723.6	3798.9	2316.6	2111.2	2089.1	2063.8	2006.9	1931.1	1905.8	1893.1	1902.6
37.5°	5888.0	3628.2	2174.4	2016.4	2038.5	1991.1	1924.7	1890.0	1978.5	1956.3	1965.8
40°	6150.3	3508.1	2035.4	1959.5	1981.6	1927.9	1842.6	1829.9	1940.5	1861.5	1842.6
42.5°	6630.7	3505.0	1950.0	1874.2	1890.0	1848.9	1773.0	1766.7	1811.0	1716.1	1687.7
45°	7228.0	3615.6	1886.8	1811.0	1798.3	1792.0	1766.7	1738.3	1700.3	1577.1	1545.5
47.5°	7942.3	3795.7	1874.2	1716.1	1731.9	1785.7	1754.1	1681.4	1583.4	1504.4	1488.6
50°	8808.3	4168.7	1842.6	1646.6	1675.1	1760.4	1735.1	1634.0	1545.5	1494.9	1485.4
52.5°	9765.9	4639.6	1801.5	1539.2	1602.4	1738.3	1750.9	1656.1	1526.5	1482.3	1475.9
55°	10894.2	5334.9	1754.1	1422.2	1517.0	1716.1	1750.9	1592.9	1501.2	1501.2	1494.9
57.5°	13122.3	6586.5	1656.1	1314.8	1441.2	1675.1	1700.3	1596.0	1504.4	1504.4	1491.7
60°	16390.3	8539.6	1469.6	1232.6	1368.5	1618.2	1662.4	1548.6	1469.6	1488.6	1485.4
62.5°	18947.1	9133.8	1311.6	1153.6	1295.8	1513.9	1611.8	1498.1	1428.5	1498.1	1504.4
65°	19493.9	8533.3	1150.4	1068.2	1194.7	1412.7	1539.2	1425.4	1368.5	1504.4	1510.7
66°	19297.9	8065.6	1093.5	1043.0	1150.4	1362.2	1494.9	1400.1	1336.9	1498.1	1501.2
67.5°	18425.6	7363.9	1030.3	989.2	1090.4	1289.5	1444.3	1365.3	1286.3	1479.1	1450.7
70°	16529.3	6245.1	922.9	894.4	1005.0	1169.4	1327.4	1276.8	1207.3	1362.2	1311.6
72.5°	12730.4	4990.4	809.1	812.2	907.1	1046.1	1210.5	1175.7	1115.7	1194.7	1163.1
75°	7752.7	3188.9	704.8	711.1	790.1	929.2	1099.8	1074.6	1001.9	1046.1	1030.3
77.5°	3435.4	1580.2	594.2	606.8	670.0	818.6	957.6	916.5	840.7	850.2	843.8
80°	1333.7	749.0	483.6	499.4	540.4	654.2	793.3	755.4	689.0	676.3	670.0
82.5°	641.6	417.2	372.9	379.3	395.1	521.5	682.7	635.3	546.8	489.9	489.9
85°	322.4	259.2	262.3	240.2	262.3	354.0	461.4	385.6	319.2	284.4	290.8
87.5°	129.6	129.6	129.6	110.6	116.9	167.5	214.9	145.4	132.7	79.0	79.0
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)