

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: P477007

Luminaire Tested: **IFLD-M-SA4B-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477007
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

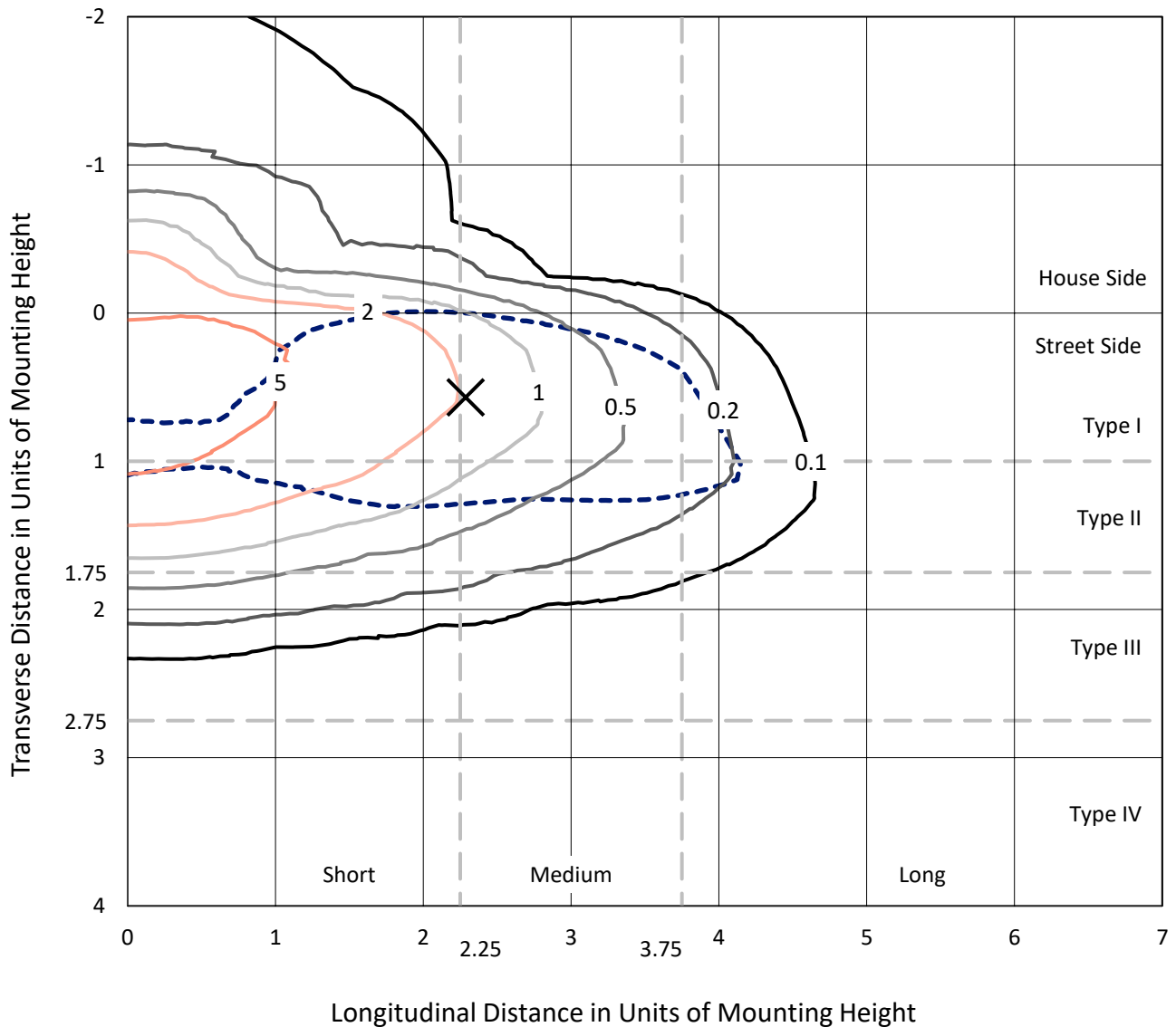
Lumens per Lamp: N/A
Luminaire Lumens: 22967.8 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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: P477007
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

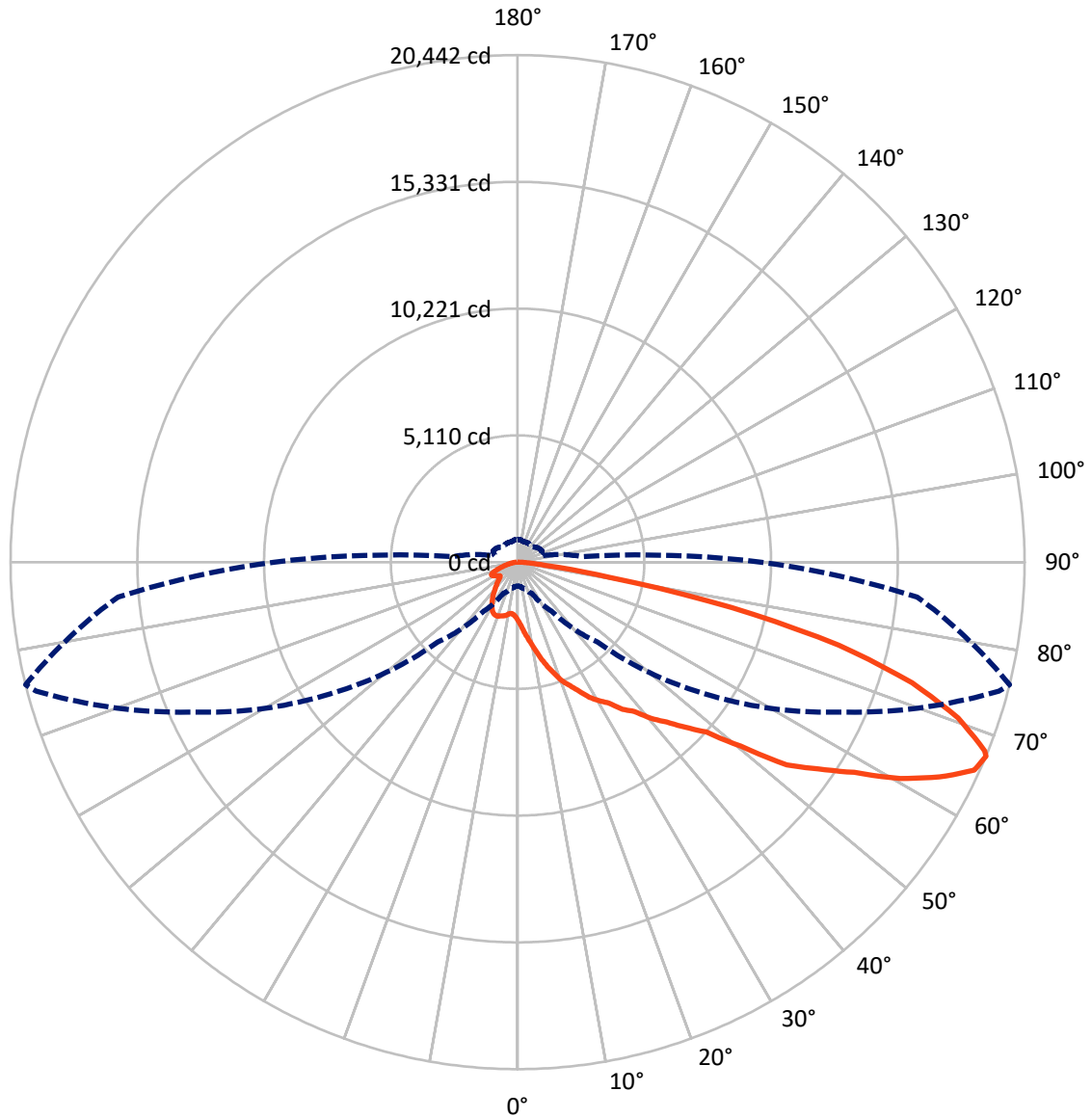
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P477007
CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3267.5	0.0	3267.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19700.4	0.0	19700.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	22967.8	0.0	22967.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	1.2
10°-20°	1021.1	4.4
20°-30°	1898.4	8.3
30°-40°	3009.4	13.1
40°-50°	4162.3	18.1
50°-60°	5119.8	22.3
60°-70°	4764.2	20.7
70°-80°	2390.7	10.4
80°-90°	329.6	1.4
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°	22967.8	100.0
0°-180°	22967.8	100.0

Coefficient of Utilization



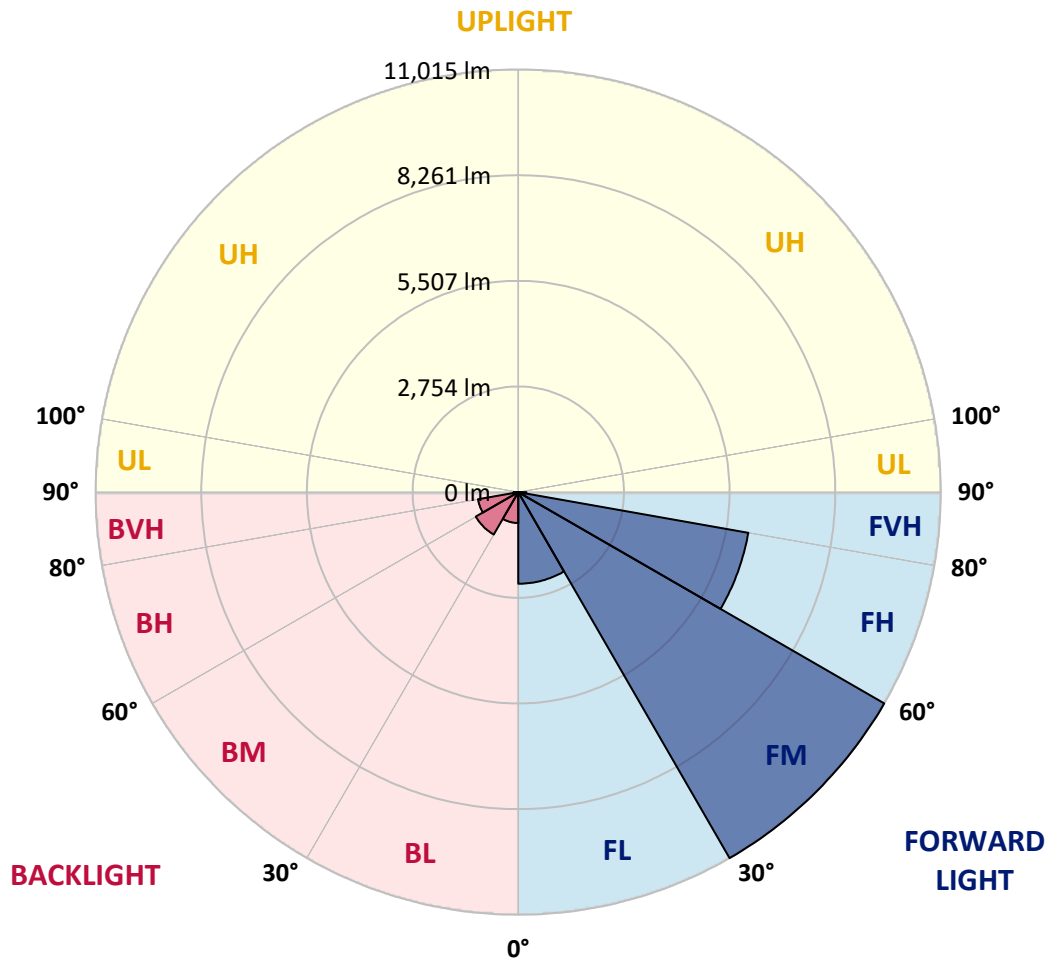
REPORT NUMBER: P477007
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.1	10.4			
FM (30°-60°)	11014.6	48.0			
FH (60°-80°)	6088.6	26.5			G3/7500
FVH (80°-90°)	210.0	0.9			G2/225
BL (0°-30°)	804.6	3.5	B2/1000		
BM (30°-60°)	1276.9	5.6	B2/2500		
BH (60°-80°)	1066.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	119.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P477007

CATALOG NUMBER: IFLD-M-SA4B-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4
2.5°	3261.3	3222.0	3182.7	3099.0	3070.2	2991.7	2847.7	2688.0	2557.2	2538.9	2447.2
5°	4046.5	3988.9	3975.8	3928.7	3779.5	3627.7	3392.1	3135.6	2816.3	2839.9	2525.8
7.5°	4635.4	4601.3	4530.7	4486.2	4397.2	4195.7	3952.2	3612.0	3206.3	3127.8	2701.1
10°	5080.3	5033.2	5030.6	4991.3	4944.2	4737.5	4551.6	4093.6	3572.7	3465.4	2915.8
12.5°	5305.4	5297.6	5436.3	5436.3	5418.0	5331.6	5012.3	4593.5	3920.8	3884.2	3164.4
15°	5548.8	5483.4	5603.8	5695.4	5742.5	5787.0	5522.7	5080.3	4365.8	4295.1	3431.4
17.5°	5548.8	5543.6	5664.0	5815.8	6061.8	6119.4	5975.5	5527.9	4734.8	4682.5	3724.5
20°	5454.6	5530.5	5614.3	5818.4	6085.4	6318.3	6360.2	5985.9	5143.1	5101.3	4056.9
22.5°	5894.3	5821.0	5907.4	5985.9	6192.7	6546.1	6661.2	6389.0	5572.4	5412.7	4357.9
25°	6632.4	6582.7	6519.9	6404.7	6491.1	6645.5	6820.9	6687.4	5938.8	5760.8	4648.5
27.5°	7352.2	7354.8	7218.7	6967.5	6781.6	6813.0	7019.8	6949.1	6247.7	6169.2	4847.4
30°	8375.6	8312.8	8161.0	7820.7	7456.9	7158.5	7124.5	7192.5	6640.3	6488.5	5132.7
32.5°	9142.5	9155.6	8941.0	8451.5	7954.2	7710.8	7412.4	7441.2	6888.9	6776.4	5360.4
35°	9762.8	9747.1	9595.3	9189.6	8600.7	8307.6	7904.5	7739.6	7467.4	7289.4	5708.5
37.5°	10432.9	10304.6	10058.6	9600.5	9223.6	8817.9	8425.3	8053.7	7852.1	7637.5	6006.9
40°	10702.5	10702.5	10372.7	10163.3	9715.7	9409.5	9155.6	8467.2	8320.6	8278.8	6389.0
42.5°	10511.4	10629.2	10493.1	10254.9	10071.7	9684.3	9616.2	8896.5	8899.1	8815.3	6847.1
45°	10493.1	10330.8	10218.2	10278.4	10192.1	10171.1	10343.9	9490.6	9506.3	9495.8	7462.1
47.5°	9967.0	9893.7	10061.2	10160.7	10231.3	10555.9	11053.2	10199.9	10312.5	10233.9	8171.4
50°	9443.5	9430.4	9535.1	9896.3	10202.5	10736.5	11728.5	11294.0	11663.0	11657.8	9456.6
52.5°	8009.2	8147.9	8558.8	9323.1	10079.5	10982.5	12238.9	12691.7	13395.7	13586.8	10521.9
55°	6637.7	6564.4	7171.6	8281.4	9543.0	11079.4	12809.4	13531.8	14568.3	14707.0	11615.9
57.5°	5164.1	5300.2	5779.2	6844.4	8433.2	10600.4	13228.2	14361.5	15892.7	16000.0	12885.3
60°	3852.8	3871.1	4397.2	5255.7	6957.0	9519.4	13364.3	15212.2	17410.8	17717.0	14215.0
62.5°	2423.7	2533.6	2934.1	3779.5	5237.4	8006.6	12754.5	15727.8	19002.2	19083.3	15555.1
65°	1306.1	1376.7	1677.7	2209.1	3659.1	6056.6	11136.9	15419.0	19750.7	20232.3	16151.8
67°	965.8	978.9	1117.6	1410.8	2447.2	4559.5	9286.5	14301.3	20091.0	20441.7	16175.4
67.5°	905.6	923.9	1033.9	1266.8	2169.8	4198.3	8802.2	13903.5	19939.2	20316.1	15992.2
70°	774.7	780.0	806.2	871.6	1217.1	2525.8	5993.8	11393.4	18481.3	18842.5	14707.0
72.5°	688.4	693.6	704.1	717.2	824.5	1460.5	3646.0	8768.2	16062.8	16638.7	12689.0
75°	604.6	622.9	628.2	617.7	701.5	950.1	1939.5	6444.0	13102.6	13382.6	9867.5
77.5°	513.0	520.9	531.3	541.8	625.6	709.3	931.8	4350.1	8993.3	8823.2	5336.8
80°	431.9	434.5	442.3	450.2	541.8	541.8	528.7	2350.4	3928.7	3755.9	1803.4
82.5°	308.9	327.2	345.5	366.4	450.2	363.8	345.5	1047.0	1243.3	1183.1	609.8
85°	120.4	146.6	227.7	251.3	285.3	196.3	230.3	452.8	518.2	513.0	227.7
87.5°	20.9	23.6	62.8	96.8	104.7	68.1	109.9	162.3	193.7	209.4	83.8
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°	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4	2350.4
2.5°	2371.3	2290.2	2193.4	2096.5	2033.7	1934.2	1926.4	1866.2	1858.3	1837.4	1847.9
5°	2389.7	2292.8	2096.5	1942.1	1871.4	1813.8	1826.9	1800.8	1792.9	1779.8	1758.9
7.5°	2533.6	2342.6	2049.4	1915.9	1863.6	1837.4	1837.4	1806.0	1782.4	1798.1	1813.8
10°	2627.8	2366.1	2086.0	1952.6	1910.7	1853.1	1874.0	1834.8	1847.9	1816.5	1816.5
12.5°	2779.7	2499.6	2162.0	2007.5	1939.5	1887.1	1908.1	1863.6	1853.1	1855.7	1847.9
15°	2983.8	2588.6	2196.0	2038.9	1991.8	1926.4	1910.7	1871.4	1832.2	1819.1	1834.8
17.5°	3174.9	2698.5	2219.5	2057.3	1981.4	1908.1	1889.7	1840.0	1826.9	1787.7	1756.3
20°	3402.6	2829.4	2250.9	2073.0	1942.1	1868.8	1821.7	1772.0	1727.5	1703.9	1714.4
22.5°	3554.4	2897.4	2266.6	2041.6	1884.5	1816.5	1717.0	1683.0	1620.2	1594.0	1573.0
25°	3803.0	2981.2	2227.4	1955.2	1782.4	1672.5	1583.5	1536.4	1491.9	1457.9	1447.4
27.5°	3865.9	3044.0	2135.8	1808.6	1620.2	1505.0	1429.1	1371.5	1342.7	1290.4	1279.9
30°	4049.1	2981.2	1999.7	1630.6	1465.7	1347.9	1272.0	1230.2	1162.1	1149.0	1120.2
32.5°	4166.9	2999.5	1826.9	1457.9	1287.7	1183.1	1133.3	1091.4	1073.1	1010.3	994.6
35°	4363.2	2936.7	1651.6	1298.2	1141.2	1060.0	1018.2	1005.1	944.9	916.1	889.9
37.5°	4488.8	2900.1	1476.2	1117.6	981.5	947.5	960.6	905.6	832.3	777.4	759.0
40°	4708.7	2887.0	1277.3	968.4	871.6	863.7	905.6	800.9	667.4	620.3	594.1
42.5°	5025.4	2798.0	1122.9	834.9	785.2	819.2	827.1	667.4	591.5	552.3	533.9
45°	5329.0	2816.3	971.0	691.0	683.1	732.9	714.5	565.4	520.9	492.1	507.8
47.5°	5912.7	2907.9	821.9	575.8	615.1	662.2	554.9	505.2	463.3	442.3	445.0
50°	6815.6	2996.9	691.0	526.1	581.1	599.4	476.4	458.0	455.4	413.5	410.9
52.5°	7357.4	2962.9	667.4	588.9	622.9	599.4	518.2	505.2	484.2	465.9	445.0
55°	8218.6	3062.3	717.2	688.4	706.7	575.8	581.1	575.8	560.1	513.0	526.1
57.5°	8904.3	3127.8	782.6	769.5	759.0	599.4	607.2	609.8	599.4	578.4	596.8
60°	9846.6	3258.6	850.6	853.3	855.9	651.7	664.8	680.5	677.9	670.0	675.3
62.5°	10425.0	3198.4	926.6	968.4	955.3	759.0	756.4	766.9	766.9	780.0	787.8
65°	10338.6	2976.0	965.8	1070.5	1002.5	837.6	837.6	842.8	845.4	871.6	874.2
67°	9820.4	2578.1	944.9	1086.2	1002.5	869.0	869.0	874.2	855.9	923.9	903.0
67.5°	9579.6	2460.3	926.6	1073.1	994.6	866.4	866.4	869.0	853.3	918.7	897.8
70°	8331.1	1826.9	798.3	950.1	921.3	842.8	842.8	827.1	814.0	900.4	882.1
72.5°	7111.4	1327.0	641.3	808.8	832.3	811.4	816.6	777.4	740.7	800.9	785.2
75°	5446.8	976.3	499.9	622.9	704.1	759.0	793.1	693.6	646.5	662.2	633.4
77.5°	3038.8	636.0	395.2	460.7	536.6	706.7	761.7	625.6	528.7	510.4	510.4
80°	1031.2	371.7	290.5	342.9	369.1	625.6	711.9	507.8	416.2	397.8	384.8
82.5°	390.0	227.7	198.9	235.6	235.6	494.7	581.1	390.0	314.1	405.7	413.5
85°	178.0	136.1	130.9	136.1	136.1	303.6	410.9	253.9	282.7	243.4	214.6
87.5°	70.7	65.4	60.2	57.6	47.1	52.3	141.3	68.1	128.3	34.0	31.4
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)