

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: P477001

Luminaire Tested: **IFLD-S-SA6A-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477001
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27141.6 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

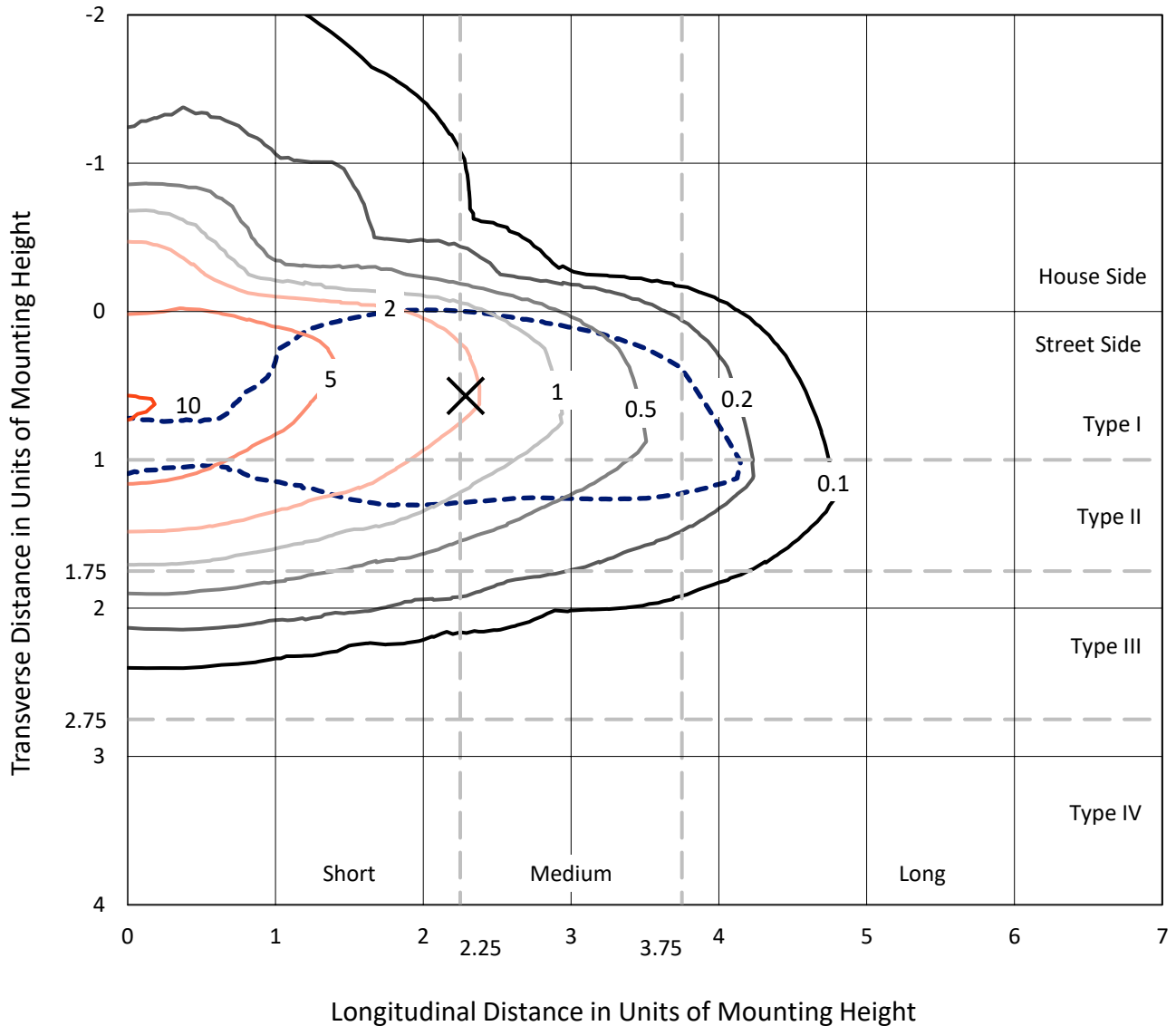
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P477001
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Iso-Footcandle Lines of Horizontal Illumination

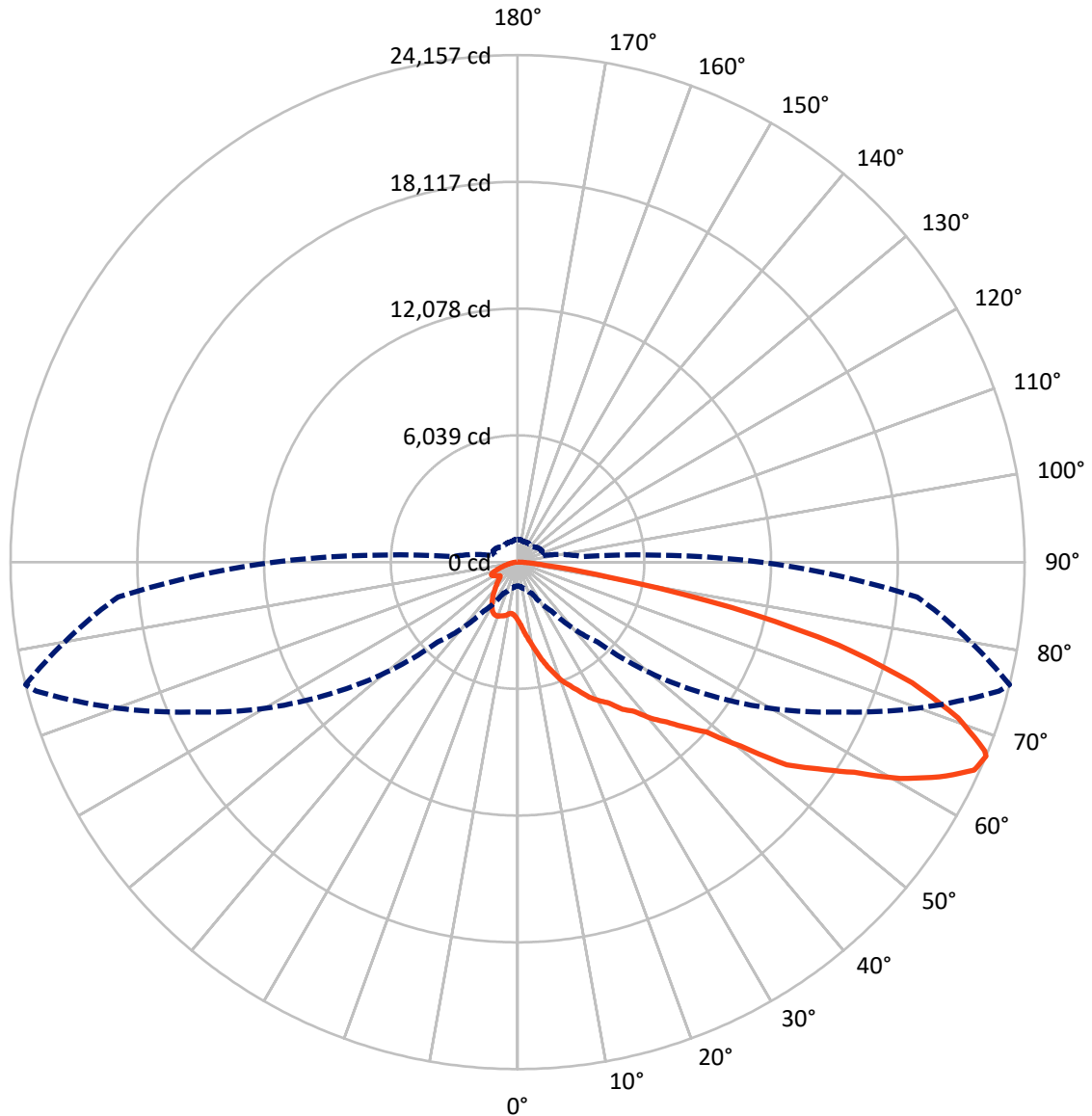
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P477001
CATALOG NUMBER: IFLD-S-SA6A-740-U-T2R

Luminous Intensity Polar Plot



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

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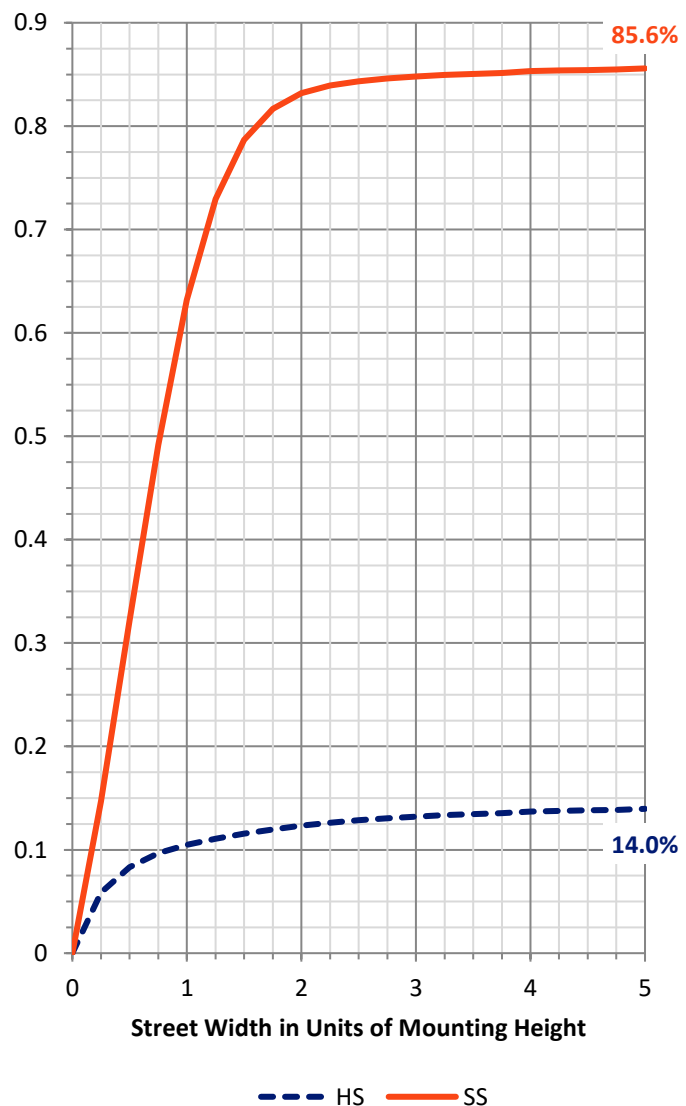
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3861.2	0.0	3861.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23280.4	0.0	23280.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	27141.6	0.0	27141.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	1.2
10°-20°	1206.7	4.4
20°-30°	2243.4	8.3
30°-40°	3556.3	13.1
40°-50°	4918.6	18.1
50°-60°	6050.2	22.3
60°-70°	5630.0	20.7
70°-80°	2825.1	10.4
80°-90°	389.5	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°	27141.6	100.0
0°-180°	27141.6	100.0

Coefficient of Utilization



REPORT NUMBER: P477001

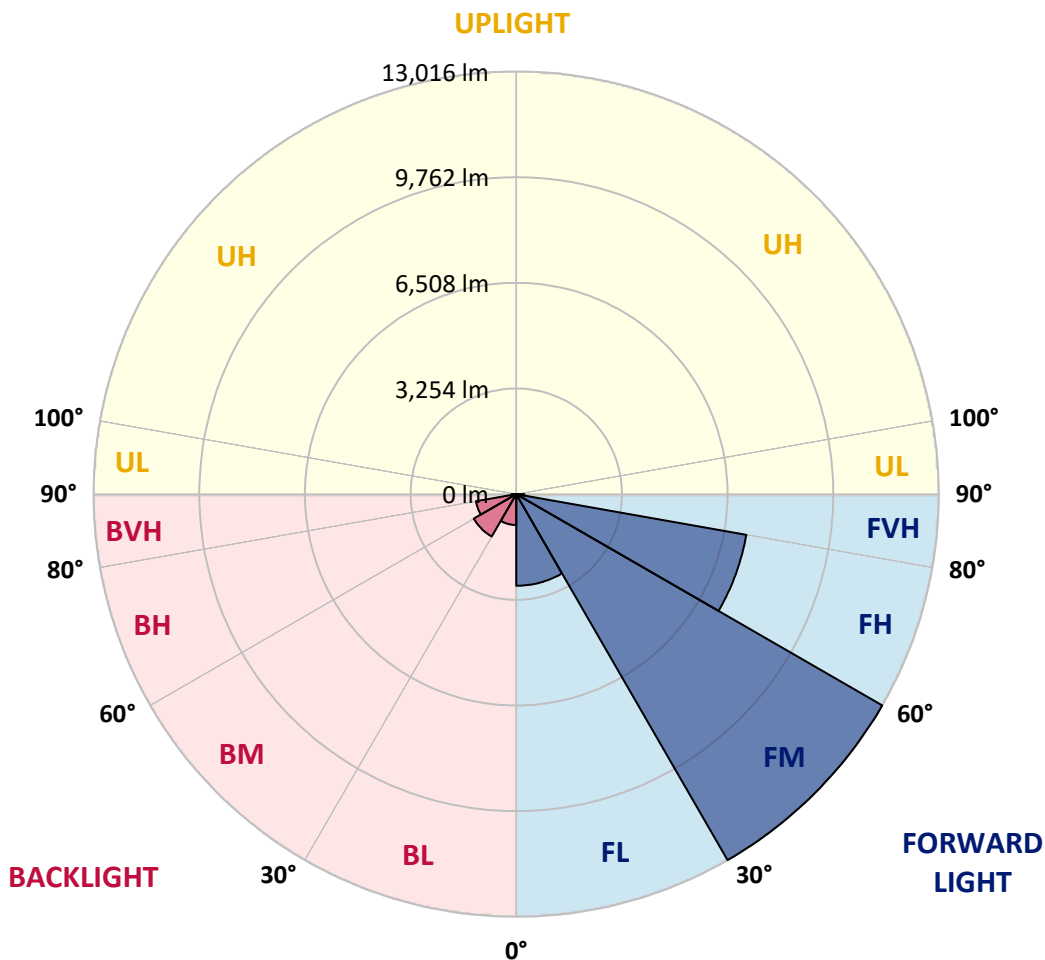
CATALOG NUMBER: IFLD-S-SA6A-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2820.9	10.4			
FM (30°-60°)	13016.2	48.0			
FH (60°-80°)	7195.0	26.5			G3/7500
FVH (80°-90°)	248.2	0.9			G3/500
BL (0°-30°)	950.9	3.5	B2/1000		
BM (30°-60°)	1508.9	5.6	B2/2500		
BH (60°-80°)	1260.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	141.4	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: P477001
 CATALOG NUMBER: IFLD-S-SA6A-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5
2.5°	3853.9	3807.5	3761.1	3662.1	3628.1	3535.3	3365.2	3176.5	3021.9	3000.2	2892.0
5°	4781.8	4713.8	4698.3	4642.6	4466.3	4286.9	4008.6	3705.4	3328.1	3355.9	2984.8
7.5°	5477.7	5437.5	5354.0	5301.4	5196.3	4958.1	4670.5	4268.4	3788.9	3696.2	3192.0
10°	6003.5	5947.9	5944.8	5898.4	5842.7	5598.4	5378.8	4837.5	4222.0	4095.2	3445.6
12.5°	6269.5	6260.3	6424.2	6424.2	6402.5	6300.5	5923.1	5428.2	4633.3	4590.0	3739.5
15°	6557.2	6479.9	6622.2	6730.4	6786.1	6838.7	6526.3	6003.5	5159.2	5075.6	4054.9
17.5°	6557.2	6551.0	6693.3	6872.7	7163.4	7231.5	7061.4	6532.5	5595.3	5533.4	4401.4
20°	6445.9	6535.5	6634.5	6875.8	7191.3	7466.5	7516.0	7073.7	6077.8	6028.3	4794.2
22.5°	6965.5	6878.9	6980.9	7073.7	7318.1	7735.6	7871.7	7550.1	6585.0	6396.4	5149.9
25°	7837.7	7778.9	7704.7	7568.6	7670.7	7853.2	8060.4	7902.7	7018.1	6807.7	5493.2
27.5°	8688.3	8691.4	8530.5	8233.6	8014.0	8051.1	8295.5	8212.0	7383.0	7290.2	5728.3
30°	9897.7	9823.4	9644.0	9241.9	8812.0	8459.4	8419.2	8499.6	7847.0	7667.6	6065.4
32.5°	10803.9	10819.4	10565.8	9987.4	9399.7	9112.0	8759.4	8793.5	8140.8	8007.8	6334.5
35°	11537.0	11518.4	11339.0	10859.6	10163.7	9817.2	9340.9	9146.1	8824.4	8614.1	6745.9
37.5°	12328.8	12177.2	11886.5	11345.2	10899.8	10420.4	9956.4	9517.2	9279.1	9025.4	7098.5
40°	12647.4	12647.4	12257.6	12010.2	11481.3	11119.4	10819.4	10005.9	9832.7	9783.2	7550.1
42.5°	12421.6	12560.7	12399.9	12118.4	11901.9	11444.2	11363.8	10513.2	10516.3	10417.3	8091.3
45°	12399.9	12208.1	12075.1	12146.3	12044.2	12019.5	12223.6	11215.3	11233.8	11221.5	8818.2
47.5°	11778.2	11691.6	11889.6	12007.1	12090.6	12474.1	13061.8	12053.5	12186.5	12093.7	9656.4
50°	11159.6	11144.1	11267.9	11694.7	12056.6	12687.6	13859.8	13346.4	13782.5	13776.3	11175.1
52.5°	9464.6	9628.6	10114.2	11017.3	11911.2	12978.3	14463.0	14998.0	15830.1	16055.9	12433.9
55°	7843.9	7757.3	8474.9	9786.3	11277.1	13092.7	15137.2	15990.9	17215.7	17379.7	13726.8
57.5°	6102.5	6263.4	6829.4	8088.2	9965.7	12526.7	15632.1	16971.4	18780.8	18907.6	15226.9
60°	4552.9	4574.6	5196.3	6210.8	8221.2	11249.3	15793.0	17976.6	20574.8	20936.6	16798.2
62.5°	2864.1	2994.0	3467.3	4466.3	6189.1	9461.5	15072.3	18585.9	22455.3	22551.2	18381.8
65°	1543.4	1626.9	1982.6	2610.5	4324.0	7157.2	13160.8	18221.0	23339.9	23909.0	19087.0
67°	1141.3	1156.8	1320.7	1667.1	2892.0	5388.0	10974.0	16900.3	23742.0	24156.5	19114.9
67.5°	1070.2	1091.8	1221.7	1497.0	2564.1	4961.2	10401.8	16430.1	23562.6	24008.0	18898.3
70°	915.5	921.7	952.6	1030.0	1438.3	2984.8	7083.0	13463.9	21839.8	22266.6	17379.7
72.5°	813.5	819.6	832.0	847.5	974.3	1725.9	4308.6	10361.6	18981.9	19662.3	14995.0
75°	714.5	736.1	742.3	730.0	828.9	1122.8	2291.9	7615.0	15483.7	15814.6	11660.7
77.5°	606.2	615.5	627.9	640.3	739.2	838.2	1101.1	5140.6	10627.6	10426.6	6306.7
80°	510.3	513.4	522.7	532.0	640.3	640.3	624.8	2777.5	4642.6	4438.5	2131.1
82.5°	365.0	386.6	408.3	433.0	532.0	429.9	408.3	1237.2	1469.2	1398.0	720.7
85°	142.3	173.2	269.1	296.9	337.1	232.0	272.2	535.1	612.4	606.2	269.1
87.5°	24.7	27.8	74.2	114.4	123.7	80.4	129.9	191.8	228.9	247.4	99.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477001
 CATALOG NUMBER: IFLD-S-SA6A-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5	2777.5
2.5°	2802.3	2706.4	2591.9	2477.5	2403.3	2285.7	2276.5	2205.3	2196.0	2171.3	2183.7
5°	2823.9	2709.5	2477.5	2295.0	2211.5	2143.5	2158.9	2128.0	2118.7	2103.3	2078.5
7.5°	2994.0	2768.3	2421.8	2264.1	2202.2	2171.3	2171.3	2134.2	2106.3	2124.9	2143.5
10°	3105.4	2796.1	2465.1	2307.4	2257.9	2189.9	2214.6	2168.2	2183.7	2146.6	2146.6
12.5°	3284.8	2953.8	2554.8	2372.3	2291.9	2230.1	2254.8	2202.2	2189.9	2193.0	2183.7
15°	3526.0	3059.0	2595.0	2409.5	2353.8	2276.5	2257.9	2211.5	2165.1	2149.6	2168.2
17.5°	3751.8	3188.9	2622.9	2431.1	2341.4	2254.8	2233.2	2174.4	2158.9	2112.5	2075.4
20°	4020.9	3343.6	2660.0	2449.7	2295.0	2208.4	2152.7	2094.0	2041.4	2013.6	2025.9
22.5°	4200.3	3424.0	2678.6	2412.6	2227.0	2146.6	2029.0	1988.8	1914.6	1883.6	1858.9
25°	4494.2	3522.9	2632.2	2310.5	2106.3	1976.4	1871.3	1815.6	1763.0	1722.8	1710.4
27.5°	4568.4	3597.2	2523.9	2137.3	1914.6	1778.5	1688.8	1620.7	1586.7	1524.9	1512.5
30°	4784.9	3522.9	2363.1	1927.0	1732.1	1592.9	1503.2	1453.7	1373.3	1357.8	1323.8
32.5°	4924.1	3544.6	2158.9	1722.8	1521.8	1398.0	1339.3	1289.8	1268.1	1193.9	1175.3
35°	5156.1	3470.4	1951.7	1534.1	1348.6	1252.7	1203.2	1187.7	1116.6	1082.6	1051.6
37.5°	5304.5	3427.1	1744.5	1320.7	1159.9	1119.7	1135.1	1070.2	983.6	918.6	897.0
40°	5564.3	3411.6	1509.4	1144.4	1030.0	1020.7	1070.2	946.5	788.7	733.0	702.1
42.5°	5938.6	3306.4	1326.9	986.7	927.9	968.1	977.4	788.7	699.0	652.6	631.0
45°	6297.4	3328.1	1147.5	816.6	807.3	866.0	844.4	668.1	615.5	581.5	600.0
47.5°	6987.1	3436.3	971.2	680.5	726.9	782.5	655.7	597.0	547.5	522.7	525.8
50°	8054.2	3541.5	816.6	621.7	686.7	708.3	562.9	541.3	538.2	488.7	485.6
52.5°	8694.5	3501.3	788.7	695.9	736.1	708.3	612.4	597.0	572.2	550.6	525.8
55°	9712.1	3618.8	847.5	813.5	835.1	680.5	686.7	680.5	661.9	606.2	621.7
57.5°	10522.4	3696.2	924.8	909.3	897.0	708.3	717.6	720.7	708.3	683.6	705.2
60°	11635.9	3850.8	1005.2	1008.3	1011.4	770.2	785.6	804.2	801.1	791.8	798.0
62.5°	12319.5	3779.7	1094.9	1144.4	1129.0	897.0	893.9	906.3	906.3	921.7	931.0
65°	12217.4	3516.8	1141.3	1265.0	1184.6	989.8	989.8	996.0	999.0	1030.0	1033.1
67°	11605.0	3046.6	1116.6	1283.6	1184.6	1026.9	1026.9	1033.1	1011.4	1091.8	1067.1
67.5°	11320.4	2907.4	1094.9	1268.1	1175.3	1023.8	1023.8	1026.9	1008.3	1085.6	1060.9
70°	9845.1	2158.9	943.4	1122.8	1088.7	996.0	996.0	977.4	961.9	1064.0	1042.3
72.5°	8403.7	1568.2	757.8	955.7	983.6	958.8	965.0	918.6	875.3	946.5	927.9
75°	6436.6	1153.7	590.8	736.1	832.0	897.0	937.2	819.6	764.0	782.5	748.5
77.5°	3591.0	751.6	467.0	544.4	634.1	835.1	900.1	739.2	624.8	603.1	603.1
80°	1218.6	439.2	343.3	405.2	436.1	739.2	841.3	600.0	491.8	470.1	454.7
82.5°	460.9	269.1	235.1	278.4	278.4	584.6	686.7	460.9	371.2	479.4	488.7
85°	210.3	160.8	154.7	160.8	160.8	358.8	485.6	300.0	334.0	287.7	253.6
87.5°	83.5	77.3	71.1	68.0	55.7	61.9	167.0	80.4	151.6	40.2	37.1
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)