

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: P477158

Luminaire Tested: **IFLD-S-SA6B-830-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477158
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

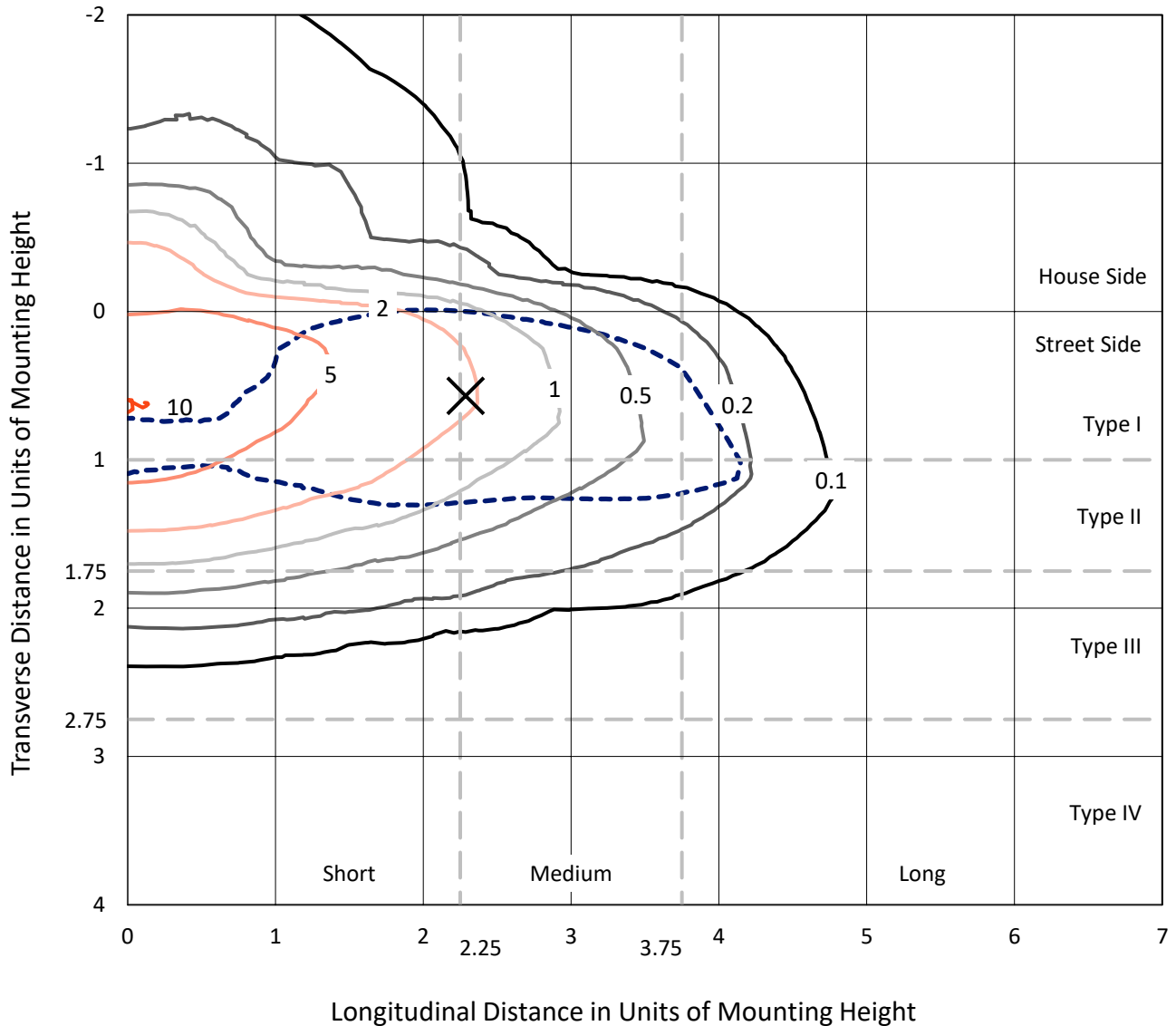
Lumens per Lamp: N/A
Luminaire Lumens: 26672.6 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 244.9
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

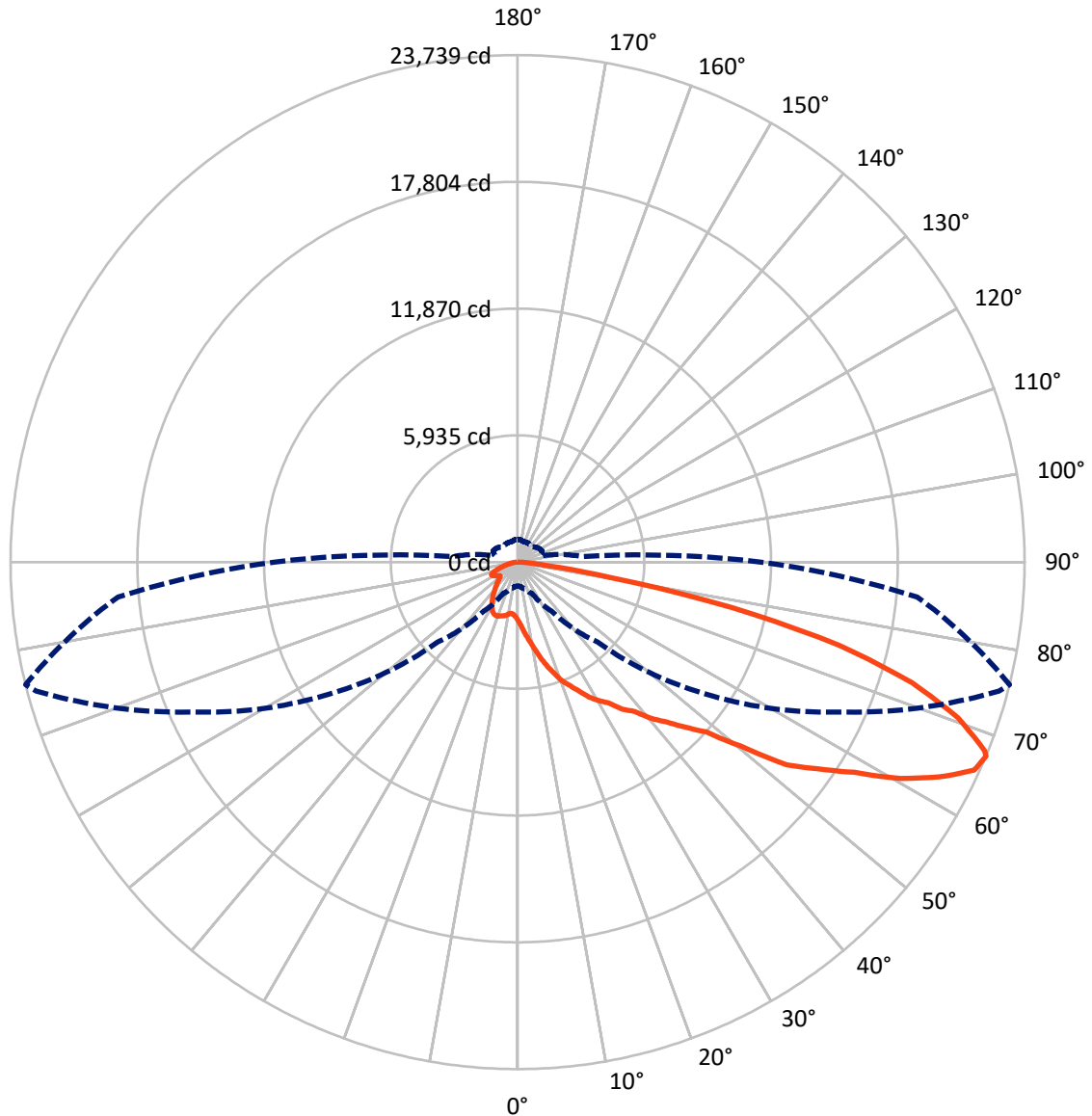
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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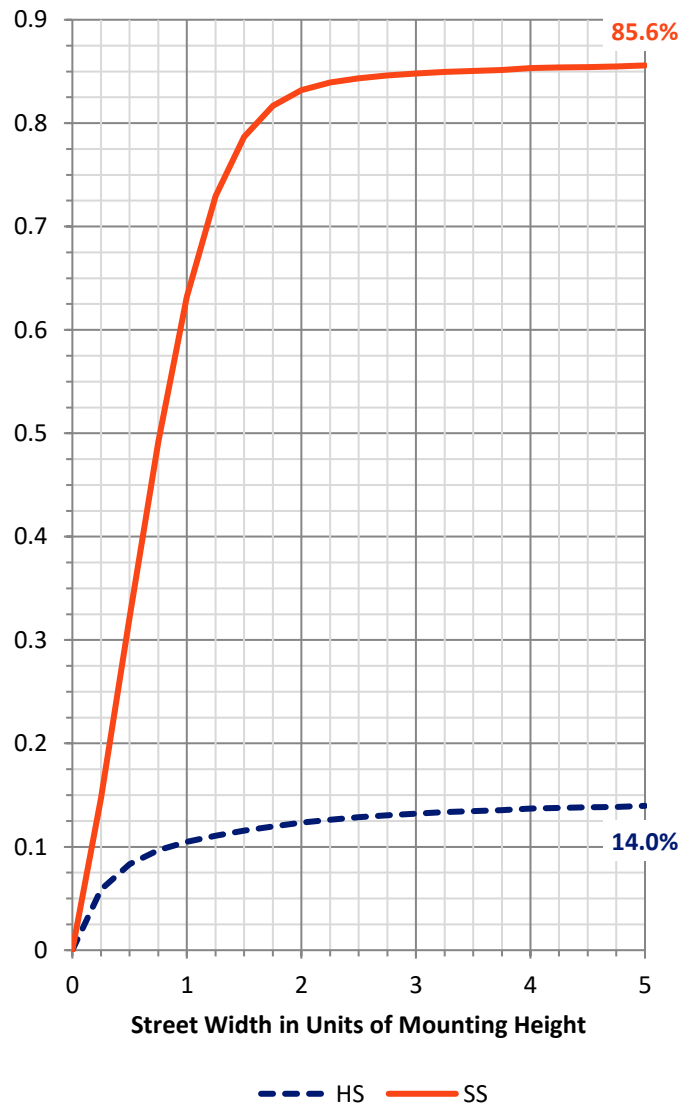
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3794.5	0.0	3794.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22878.1	0.0	22878.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	26672.6	0.0	26672.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.2	1.2
10°-20°	1185.8	4.4
20°-30°	2204.6	8.3
30°-40°	3494.8	13.1
40°-50°	4833.6	18.1
50°-60°	5945.7	22.3
60°-70°	5532.7	20.7
70°-80°	2776.3	10.4
80°-90°	382.8	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°	26672.6	100.0
0°-180°	26672.6	100.0

Coefficient of Utilization



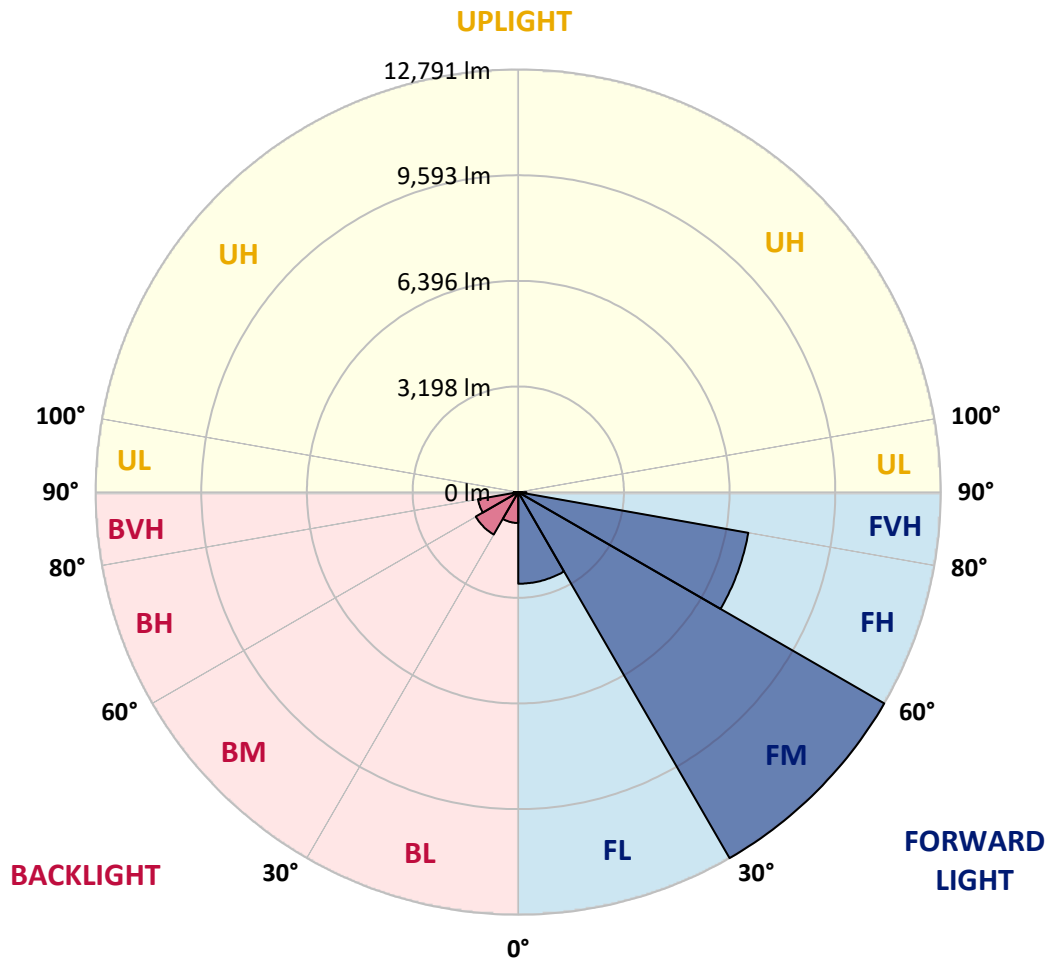
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2772.2	10.4			
FM (30°-60°)	12791.3	48.0			
FH (60°-80°)	7070.7	26.5			G3/7500
FVH (80°-90°)	243.9	0.9			G3/500
BL (0°-30°)	934.4	3.5	B2/1000		
BM (30°-60°)	1482.8	5.6	B2/2500		
BH (60°-80°)	1238.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	138.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	3787.3	3741.7	3696.1	3598.8	3565.4	3474.2	3307.0	3121.6	2969.7	2948.4	2842.0
5°	4699.2	4632.3	4617.1	4562.4	4389.1	4212.8	3939.3	3641.4	3270.6	3297.9	2933.2
7.5°	5383.1	5343.6	5261.5	5209.8	5106.5	4872.4	4589.7	4194.6	3723.5	3632.3	3136.8
10°	5899.8	5845.1	5842.0	5796.4	5741.7	5501.6	5285.8	4753.9	4149.0	4024.4	3386.1
12.5°	6161.2	6152.1	6313.2	6313.2	6291.9	6191.6	5820.8	5334.4	4553.3	4510.7	3674.8
15°	6443.9	6367.9	6507.7	6614.1	6668.8	6720.5	6413.5	5899.8	5070.0	4987.9	3984.9
17.5°	6443.9	6437.8	6577.6	6753.9	7039.6	7106.5	6939.3	6419.6	5498.6	5437.8	4325.3
20°	6334.5	6422.6	6519.9	6757.0	7067.0	7337.5	7386.1	6951.5	5972.7	5924.1	4711.3
22.5°	6845.1	6760.0	6860.3	6951.5	7191.6	7601.9	7735.7	7419.6	6471.2	6285.8	5060.9
25°	7702.3	7644.5	7571.6	7437.8	7538.1	7717.5	7921.1	7766.1	6896.8	6690.1	5398.3
27.5°	8538.1	8541.2	8383.1	8091.3	7875.5	7912.0	8152.1	8070.0	7255.4	7164.3	5629.3
30°	9726.6	9653.7	9477.4	9082.2	8659.7	8313.2	8273.7	8352.7	7711.4	7535.1	5960.6
32.5°	10617.2	10632.4	10383.2	9814.8	9237.2	8954.6	8608.0	8641.5	8000.1	7869.4	6225.0
35°	11337.6	11319.3	11143.0	10671.9	9988.0	9647.6	9179.5	8988.0	8671.9	8465.2	6629.3
37.5°	12115.7	11966.8	11681.0	11149.1	10711.4	10240.3	9784.4	9352.7	9118.7	8869.4	6975.8
40°	12428.8	12428.8	12045.8	11802.6	11282.9	10927.2	10632.4	9833.0	9662.8	9614.1	7419.6
42.5°	12206.9	12343.7	12185.6	11909.0	11696.2	11246.4	11167.4	10331.5	10334.5	10237.3	7951.5
45°	12185.6	11997.2	11866.5	11936.4	11836.1	11811.7	12012.4	11021.5	11039.7	11027.5	8665.8
47.5°	11574.7	11489.6	11684.1	11799.6	11881.7	12258.6	12836.1	11845.2	11975.9	11884.7	9489.5
50°	10966.7	10951.5	11073.1	11492.6	11848.2	12468.3	13620.3	13115.7	13544.3	13538.2	10981.9
52.5°	9301.1	9462.2	9939.4	10826.9	11705.4	12754.0	14213.0	14738.8	15556.5	15778.4	12219.0
55°	7708.3	7623.2	8328.4	9617.2	11082.3	12866.5	14875.6	15714.5	16918.2	17079.3	13489.6
57.5°	5997.1	6155.1	6711.4	7948.5	9793.5	12310.2	15362.0	16678.1	18456.2	18580.9	14963.8
60°	4474.2	4495.5	5106.5	6103.4	8079.2	11054.9	15520.0	17665.9	20219.2	20574.8	16507.9
62.5°	2814.6	2942.3	3407.4	4389.1	6082.2	9298.0	14811.8	18264.7	22067.2	22161.5	18064.1
65°	1516.7	1598.8	1948.4	2565.4	4249.3	7033.6	12933.3	17906.1	22936.6	23495.8	18757.1
67°	1121.6	1136.8	1297.9	1638.3	2842.0	5294.9	10784.4	16608.2	23331.7	23739.0	18784.5
67.5°	1051.7	1073.0	1200.6	1471.1	2519.8	4875.5	10222.1	16146.2	23155.4	23593.1	18571.7
70°	899.7	905.8	936.2	1012.2	1413.4	2933.2	6960.6	13231.2	21462.4	21881.8	17079.3
72.5°	799.4	805.5	817.6	832.8	957.5	1696.1	4234.1	10182.5	18653.8	19322.5	14735.8
75°	702.1	723.4	729.5	717.3	814.6	1103.4	2252.3	7483.4	15216.1	15541.3	11459.2
77.5°	595.8	604.9	617.0	629.2	726.5	823.7	1082.1	5051.8	10443.9	10246.4	6197.7
80°	501.5	504.6	513.7	522.8	629.2	629.2	614.0	2729.5	4562.4	4361.8	2094.3
82.5°	358.7	379.9	401.2	425.5	522.8	422.5	401.2	1215.8	1443.8	1373.9	708.2
85°	139.8	170.2	264.4	291.8	331.3	228.0	267.5	525.8	601.8	595.8	264.4
87.5°	24.3	27.4	72.9	112.5	121.6	79.0	127.7	188.5	224.9	243.2	97.3
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°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	2753.8	2659.6	2547.2	2434.7	2361.7	2246.2	2237.1	2167.2	2158.1	2133.8	2145.9
5°	2775.1	2662.7	2434.7	2255.4	2173.3	2106.4	2121.6	2091.2	2082.1	2066.9	2042.6
7.5°	2942.3	2720.4	2380.0	2225.0	2164.2	2133.8	2133.8	2097.3	2069.9	2088.2	2106.4
10°	3051.7	2747.8	2422.5	2267.5	2218.9	2152.0	2176.3	2130.7	2145.9	2109.5	2109.5
12.5°	3228.0	2902.8	2510.7	2331.3	2252.3	2191.5	2215.8	2164.2	2152.0	2155.1	2145.9
15°	3465.1	3006.1	2550.2	2367.8	2313.1	2237.1	2218.9	2173.3	2127.7	2112.5	2130.7
17.5°	3687.0	3133.8	2577.6	2389.1	2300.9	2215.8	2194.6	2136.8	2121.6	2076.0	2039.5
20°	3951.4	3285.8	2614.0	2407.3	2255.4	2170.2	2115.5	2057.8	2006.1	1978.8	1990.9
22.5°	4127.7	3364.8	2632.3	2370.9	2188.5	2109.5	1994.0	1954.4	1881.5	1851.1	1826.8
25°	4416.5	3462.1	2586.7	2270.6	2069.9	1942.3	1838.9	1784.2	1732.6	1693.0	1680.9
27.5°	4489.4	3535.0	2480.3	2100.3	1881.5	1747.7	1659.6	1592.7	1559.3	1498.5	1486.3
30°	4702.2	3462.1	2322.2	1893.6	1702.2	1565.4	1477.2	1428.6	1349.6	1334.4	1300.9
32.5°	4839.0	3483.3	2121.6	1693.0	1495.5	1373.9	1316.1	1267.5	1246.2	1173.3	1155.0
35°	5067.0	3410.4	1918.0	1507.6	1325.2	1231.0	1182.4	1167.2	1097.3	1063.8	1033.5
37.5°	5212.9	3367.8	1714.3	1297.9	1139.8	1100.3	1115.5	1051.7	966.6	902.8	881.5
40°	5468.2	3352.6	1483.3	1124.6	1012.2	1003.1	1051.7	930.1	775.1	720.4	690.0
42.5°	5836.0	3249.3	1304.0	969.6	911.9	951.4	960.5	775.1	686.9	641.3	620.1
45°	6188.6	3270.6	1127.7	802.4	793.3	851.1	829.8	656.5	604.9	571.4	589.7
47.5°	6866.4	3377.0	954.4	668.7	714.3	769.0	644.4	586.6	538.0	513.7	516.7
50°	7915.0	3480.3	802.4	611.0	674.8	696.1	553.2	531.9	528.9	480.3	477.2
52.5°	8544.2	3440.8	775.1	683.9	723.4	696.1	601.8	586.6	562.3	541.0	516.7
55°	9544.2	3556.3	832.8	799.4	820.7	668.7	674.8	668.7	650.5	595.8	611.0
57.5°	10340.6	3632.3	908.8	893.6	881.5	696.1	705.2	708.2	696.1	671.7	693.0
60°	11434.8	3784.3	987.9	990.9	993.9	756.9	772.0	790.3	787.2	778.1	784.2
62.5°	12106.6	3714.3	1076.0	1124.6	1109.4	881.5	878.4	890.6	890.6	905.8	914.9
65°	12006.3	3456.0	1121.6	1243.2	1164.2	972.7	972.7	978.7	981.8	1012.2	1015.2
67°	11404.4	2994.0	1097.3	1261.4	1164.2	1009.1	1009.1	1015.2	993.9	1073.0	1048.6
67.5°	11124.8	2857.2	1076.0	1246.2	1155.0	1006.1	1006.1	1009.1	990.9	1066.9	1042.6
70°	9674.9	2121.6	927.1	1103.4	1069.9	978.7	978.7	960.5	945.3	1045.6	1024.3
72.5°	8258.5	1541.1	744.7	939.2	966.6	942.3	948.3	902.8	860.2	930.1	911.9
75°	6325.3	1133.8	580.6	723.4	817.6	881.5	921.0	805.5	750.8	769.0	735.6
77.5°	3528.9	738.6	459.0	535.0	623.1	820.7	884.5	726.5	614.0	592.7	592.7
80°	1197.6	431.6	337.4	398.2	428.6	726.5	826.8	589.7	483.3	462.0	446.8
82.5°	452.9	264.4	231.0	273.6	273.6	574.5	674.8	452.9	364.7	471.1	480.3
85°	206.7	158.1	152.0	158.1	158.1	352.6	477.2	294.8	328.3	282.7	249.2
87.5°	82.1	76.0	69.9	66.9	54.7	60.8	164.1	79.0	148.9	39.5	36.5
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)