

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: P477128

Luminaire Tested: **IFLD-L-SA7A-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477128
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

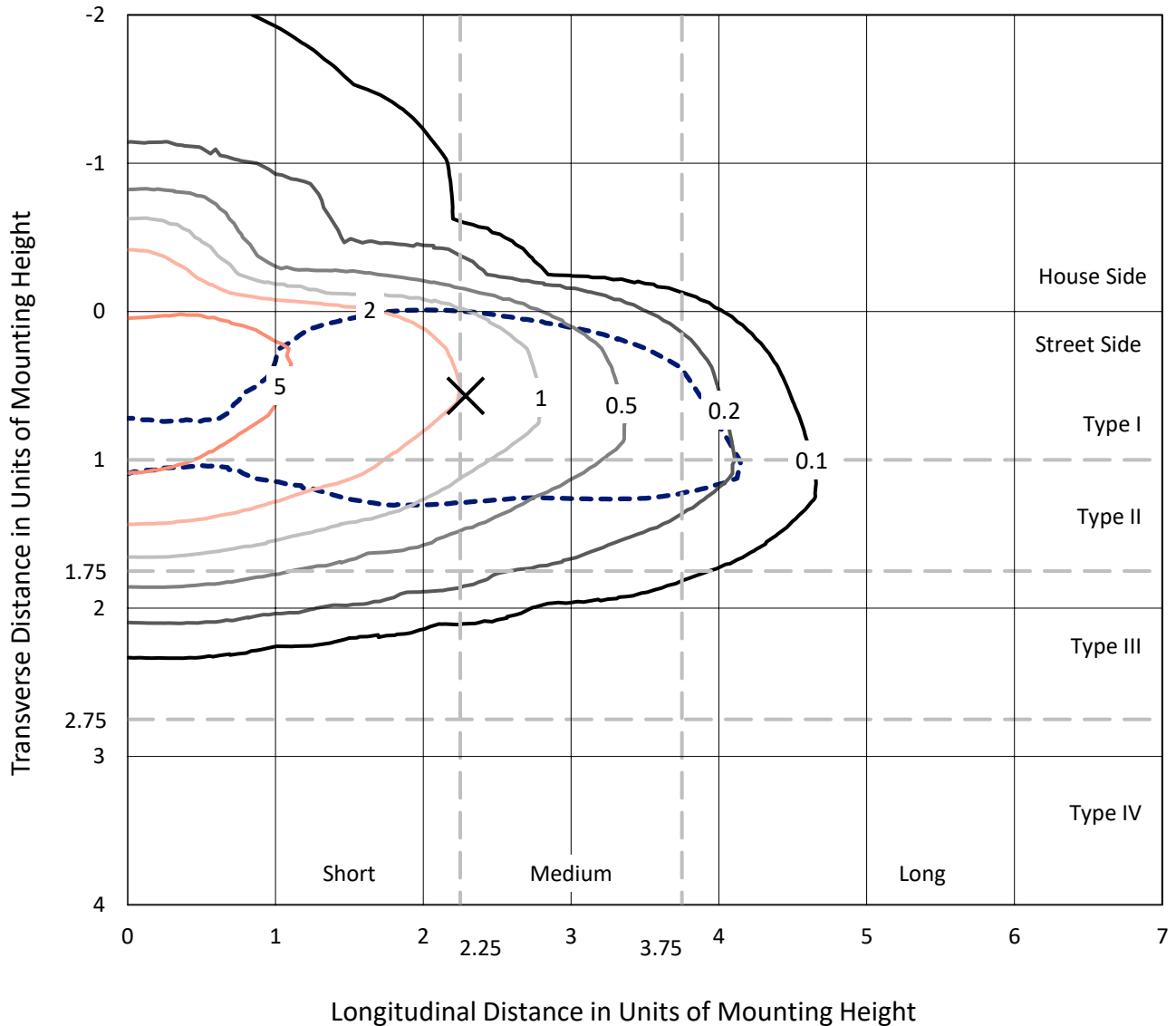
Lumens per Lamp: N/A
Luminaire Lumens: 23138.3 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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: P477128
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

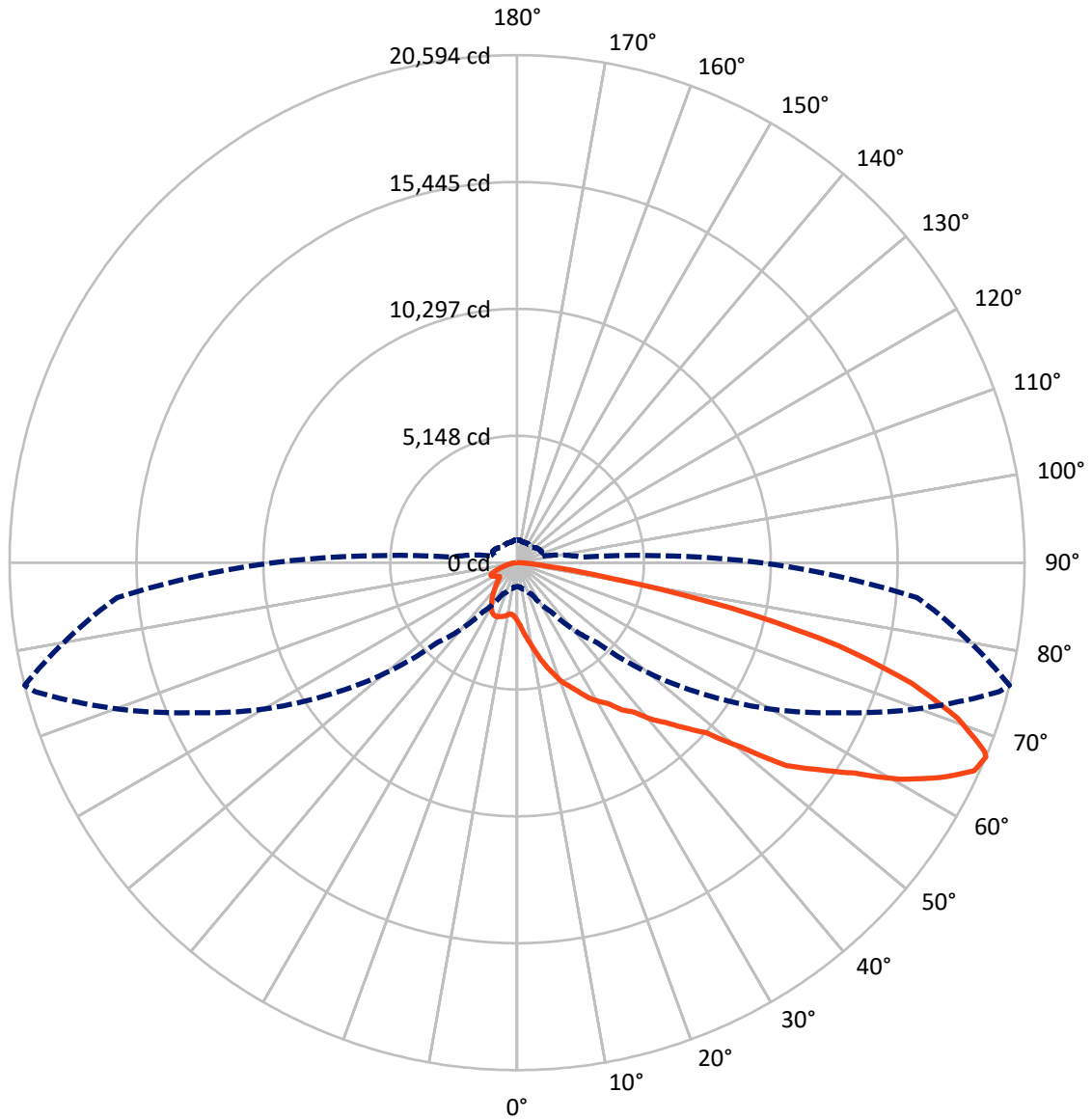
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P477128
CATALOG NUMBER: IFLD-L-SA7A-827-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477128

CATALOG NUMBER: IFLD-L-SA7A-827-U-T2R

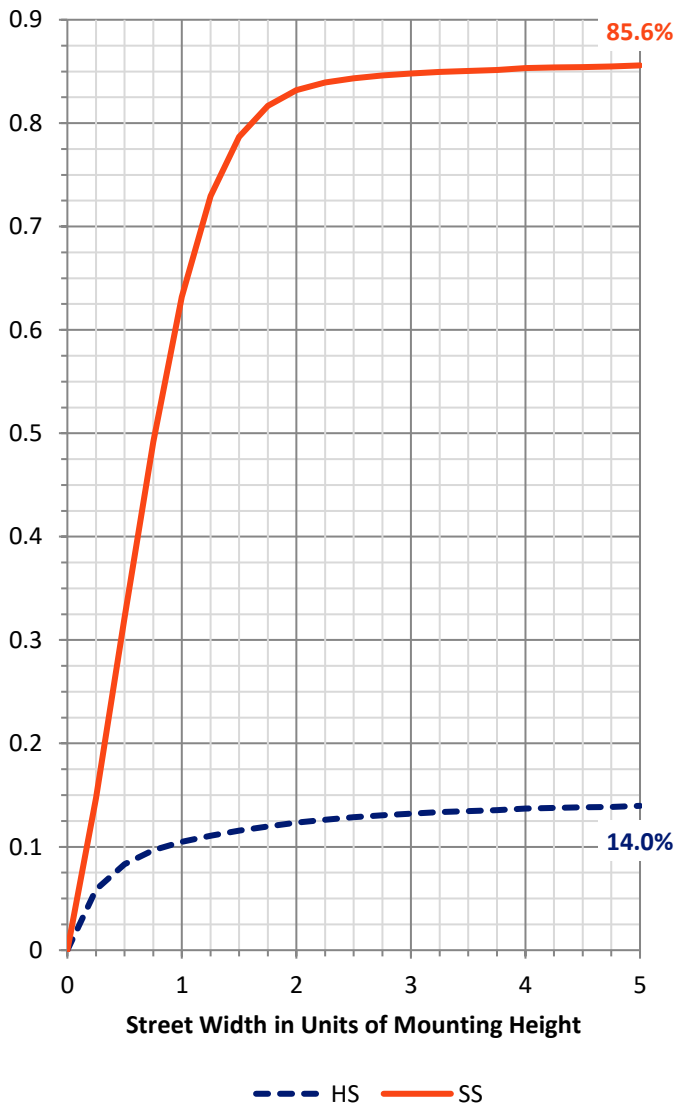
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3291.7	0.0	3291.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19846.6	0.0	19846.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	23138.3	0.0	23138.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.2
10°-20°	1028.7	4.4
20°-30°	1912.5	8.3
30°-40°	3031.7	13.1
40°-50°	4193.1	18.1
50°-60°	5157.8	22.3
60°-70°	4799.6	20.7
70°-80°	2408.4	10.4
80°-90°	332.1	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°	23138.3	100.0
0°-180°	23138.3	100.0



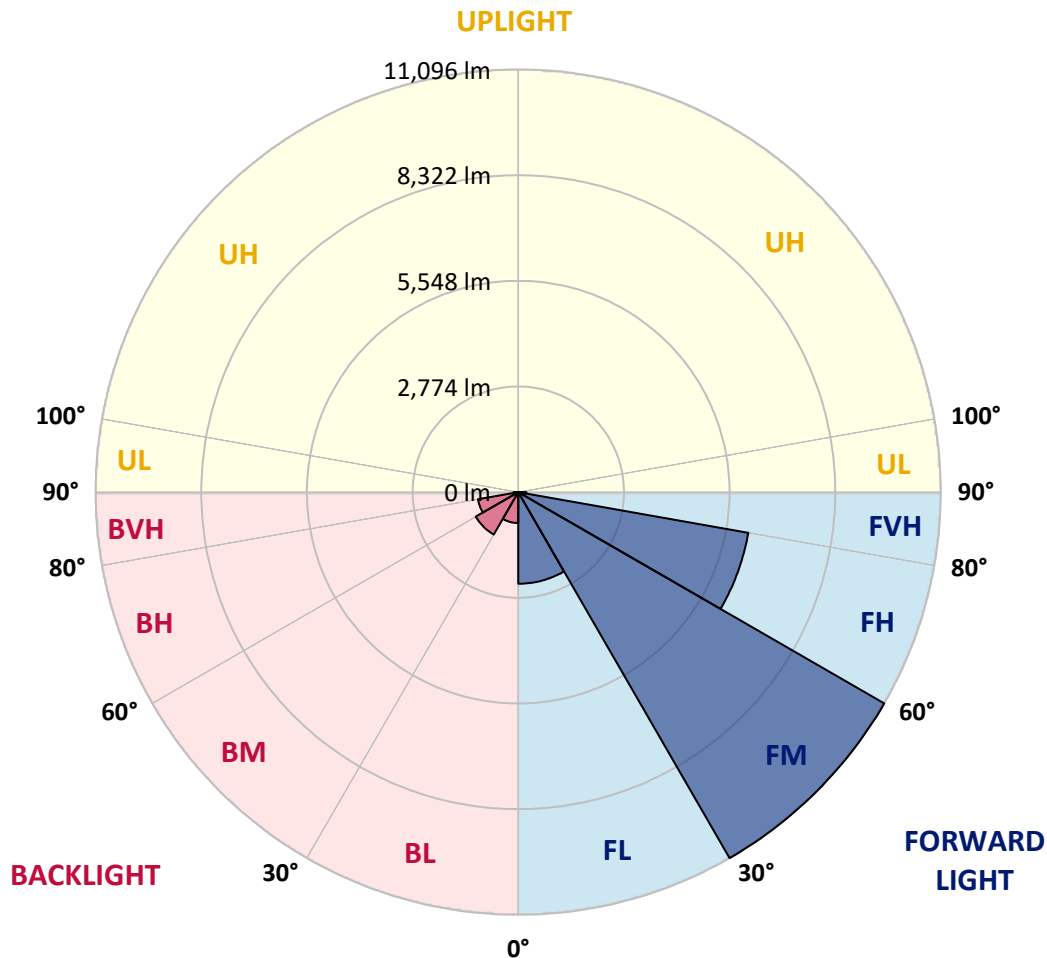
REPORT NUMBER: P477128
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.9	10.4			
FM (30°-60°)	11096.4	48.0			
FH (60°-80°)	6133.8	26.5			G3/7500
FVH (80°-90°)	211.6	0.9			G2/225
BL (0°-30°)	810.6	3.5	B2/1000		
BM (30°-60°)	1286.3	5.6	B2/2500		
BH (60°-80°)	1074.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.5	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: P477128
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9
2.5°	3285.5	3245.9	3206.4	3122.0	3093.0	3013.9	2868.8	2708.0	2576.2	2557.7	2465.4
5°	4076.5	4018.5	4005.3	3957.8	3807.6	3654.6	3417.3	3158.9	2837.2	2860.9	2544.5
7.5°	4669.8	4635.5	4564.3	4519.5	4429.8	4226.8	3981.6	3638.8	3230.1	3151.0	2721.2
10°	5118.0	5070.6	5067.9	5028.4	4980.9	4772.6	4585.4	4124.0	3599.2	3491.1	2937.4
12.5°	5344.8	5336.9	5476.7	5476.7	5458.2	5371.2	5049.5	4627.6	3949.9	3913.0	3187.9
15°	5590.0	5524.1	5645.4	5737.7	5785.2	5830.0	5563.7	5118.0	4398.2	4327.0	3456.9
17.5°	5590.0	5584.8	5706.1	5859.0	6106.8	6164.9	6019.8	5568.9	4770.0	4717.3	3752.2
20°	5495.1	5571.6	5656.0	5861.6	6130.6	6365.3	6407.4	6030.4	5181.3	5139.1	4087.1
22.5°	5938.1	5864.3	5951.3	6030.4	6238.7	6594.7	6710.7	6436.5	5613.8	5452.9	4390.3
25°	6681.7	6631.6	6568.3	6452.3	6539.3	6694.9	6871.5	6737.0	5982.9	5803.6	4683.0
27.5°	7406.8	7409.4	7272.3	7019.2	6832.0	6863.6	7071.9	7000.7	6294.1	6215.0	4883.4
30°	8437.8	8374.5	8221.6	7878.8	7512.3	7211.7	7177.4	7246.0	6689.6	6536.6	5170.8
32.5°	9210.4	9223.6	9007.3	8514.3	8013.3	7768.0	7467.4	7496.4	6940.1	6826.7	5400.2
35°	9835.3	9819.5	9666.5	9257.8	8664.6	8369.2	7963.2	7797.0	7522.8	7343.5	5750.9
37.5°	10510.3	10381.1	10133.3	9671.8	9292.1	8883.4	8487.9	8113.5	7910.4	7694.2	6051.5
40°	10781.9	10781.9	10449.7	10238.7	9787.8	9479.3	9223.6	8530.1	8382.4	8340.2	6436.5
42.5°	10589.4	10708.1	10571.0	10331.0	10146.4	9756.2	9687.6	8962.5	8965.1	8880.8	6897.9
45°	10571.0	10407.5	10294.1	10354.7	10267.7	10246.6	10420.7	9561.1	9576.9	9566.3	7517.5
47.5°	10041.0	9967.1	10135.9	10236.1	10307.3	10634.2	11135.2	10275.6	10389.0	10309.9	8232.1
50°	9513.6	9500.4	9605.9	9969.8	10278.3	10816.2	11815.5	11377.8	11749.6	11744.3	9526.8
52.5°	8068.6	8208.4	8622.4	9392.3	10154.4	11064.0	12329.7	12785.9	13495.2	13687.7	10600.0
55°	6686.9	6613.1	7224.9	8342.9	9613.8	11161.6	12904.5	13632.3	14676.5	14816.2	11702.2
57.5°	5202.4	5339.5	5822.1	6895.3	8495.8	10679.1	13326.4	14468.2	16010.7	16118.8	12981.0
60°	3881.4	3899.8	4429.8	5294.7	7008.6	9590.1	13463.5	15325.1	17540.1	17848.6	14320.5
62.5°	2441.7	2552.4	2955.9	3807.6	5276.3	8066.0	12849.2	15844.6	19143.2	19225.0	15670.6
65°	1315.8	1387.0	1690.2	2225.5	3686.3	6101.6	11219.6	15533.4	19897.4	20382.5	16271.7
67°	973.0	986.2	1125.9	1421.2	2465.4	4593.3	9355.4	14407.5	20240.1	20593.5	16295.5
67.5°	912.3	930.8	1041.5	1276.2	2185.9	4229.4	8867.6	14006.7	20087.2	20466.9	16110.9
70°	780.5	785.8	812.1	878.1	1226.1	2544.5	6038.3	11478.0	18618.5	18982.4	14816.2
72.5°	693.5	698.8	709.3	722.5	830.6	1471.3	3673.1	8833.3	16182.1	16762.2	12783.2
75°	609.1	627.6	632.8	622.3	706.7	957.2	1953.9	6491.8	13199.9	13482.0	9940.8
77.5°	516.8	524.7	535.3	545.8	630.2	714.6	938.7	4382.4	9060.1	8888.7	5376.5
80°	435.1	437.7	445.6	453.5	545.8	545.8	532.6	2367.9	3957.8	3783.8	1816.8
82.5°	311.1	329.6	348.1	369.2	453.5	366.5	348.1	1054.7	1252.5	1191.8	614.4
85°	121.3	147.7	229.4	253.1	287.4	197.8	232.0	456.2	522.1	516.8	229.4
87.5°	21.1	23.7	63.3	97.6	105.5	68.6	110.7	163.5	195.1	210.9	84.4
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: P477128
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9	2367.9
2.5°	2388.9	2307.2	2209.6	2112.1	2048.8	1948.6	1940.7	1880.0	1872.1	1851.0	1861.6
5°	2407.4	2309.8	2112.1	1956.5	1885.3	1827.3	1840.5	1814.1	1806.2	1793.0	1771.9
7.5°	2552.4	2359.9	2064.6	1930.1	1877.4	1851.0	1851.0	1819.4	1795.7	1811.5	1827.3
10°	2647.4	2383.7	2101.5	1967.1	1924.9	1866.9	1888.0	1848.4	1861.6	1829.9	1829.9
12.5°	2800.3	2518.2	2178.0	2022.4	1953.9	1901.1	1922.2	1877.4	1866.9	1869.5	1861.6
15°	3006.0	2607.8	2212.3	2054.1	2006.6	1940.7	1924.9	1885.3	1845.8	1832.6	1848.4
17.5°	3198.4	2718.5	2236.0	2072.5	1996.1	1922.2	1903.8	1853.7	1840.5	1800.9	1769.3
20°	3427.9	2850.4	2267.7	2088.4	1956.5	1882.7	1835.2	1785.1	1740.3	1716.6	1727.1
22.5°	3580.8	2918.9	2283.5	2056.7	1898.5	1829.9	1729.7	1695.5	1632.2	1605.8	1584.7
25°	3831.3	3003.3	2243.9	1969.7	1795.7	1684.9	1595.3	1547.8	1503.0	1468.7	1458.2
27.5°	3894.6	3066.6	2151.6	1822.0	1632.2	1516.2	1439.7	1381.7	1352.7	1299.9	1289.4
30°	4079.1	3003.3	2014.5	1642.7	1476.6	1358.0	1281.5	1239.3	1170.7	1157.6	1128.6
32.5°	4197.8	3021.8	1840.5	1468.7	1297.3	1191.8	1141.7	1099.5	1081.1	1017.8	1002.0
35°	4395.6	2958.5	1663.8	1307.9	1149.6	1067.9	1025.7	1012.5	951.9	922.9	896.5
37.5°	4522.1	2921.6	1487.2	1125.9	988.8	954.5	967.7	912.3	838.5	783.1	764.7
40°	4743.6	2908.4	1286.8	975.6	878.1	870.1	912.3	806.9	672.4	624.9	598.6
42.5°	5062.7	2818.7	1131.2	841.1	791.0	825.3	833.2	672.4	595.9	556.4	537.9
45°	5368.5	2837.2	978.3	696.1	688.2	738.3	719.8	569.6	524.7	495.7	511.5
47.5°	5956.6	2929.5	828.0	580.1	619.7	667.1	559.0	508.9	466.7	445.6	448.3
50°	6866.3	3019.1	696.1	530.0	585.4	603.8	479.9	461.4	458.8	416.6	414.0
52.5°	7412.1	2984.9	672.4	593.3	627.6	603.8	522.1	508.9	487.8	469.4	448.3
55°	8279.6	3085.1	722.5	693.5	711.9	580.1	585.4	580.1	564.3	516.8	530.0
57.5°	8970.4	3151.0	788.4	775.2	764.7	603.8	611.7	614.4	603.8	582.7	601.2
60°	9919.7	3282.8	857.0	859.6	862.2	656.6	669.7	685.6	682.9	675.0	680.3
62.5°	10502.4	3222.2	933.4	975.6	962.4	764.7	762.0	772.6	772.6	785.8	793.7
65°	10415.4	2998.1	973.0	1078.5	1009.9	843.8	843.8	849.1	851.7	878.1	880.7
67°	9893.3	2597.3	951.9	1094.3	1009.9	875.4	875.4	880.7	862.2	930.8	909.7
67.5°	9650.7	2478.6	933.4	1081.1	1002.0	872.8	872.8	875.4	859.6	925.5	904.4
70°	8393.0	1840.5	804.2	957.2	928.2	849.1	849.1	833.2	820.0	907.1	888.6
72.5°	7164.2	1336.9	646.0	814.8	838.5	817.4	822.7	783.1	746.2	806.9	791.0
75°	5487.2	983.5	503.6	627.6	709.3	764.7	799.0	698.8	651.3	667.1	638.1
77.5°	3061.3	640.7	398.2	464.1	540.5	711.9	767.3	630.2	532.6	514.2	514.2
80°	1038.9	374.4	292.7	345.4	371.8	630.2	717.2	511.5	419.3	400.8	387.6
82.5°	392.9	229.4	200.4	237.3	237.3	498.4	585.4	392.9	316.4	408.7	416.6
85°	179.3	137.1	131.8	137.1	137.1	305.9	414.0	255.8	284.8	245.2	216.2
87.5°	71.2	65.9	60.6	58.0	47.5	52.7	142.4	68.6	129.2	34.3	31.6
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)