

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: P476577

Luminaire Tested: **IFLD-M-SA4A-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

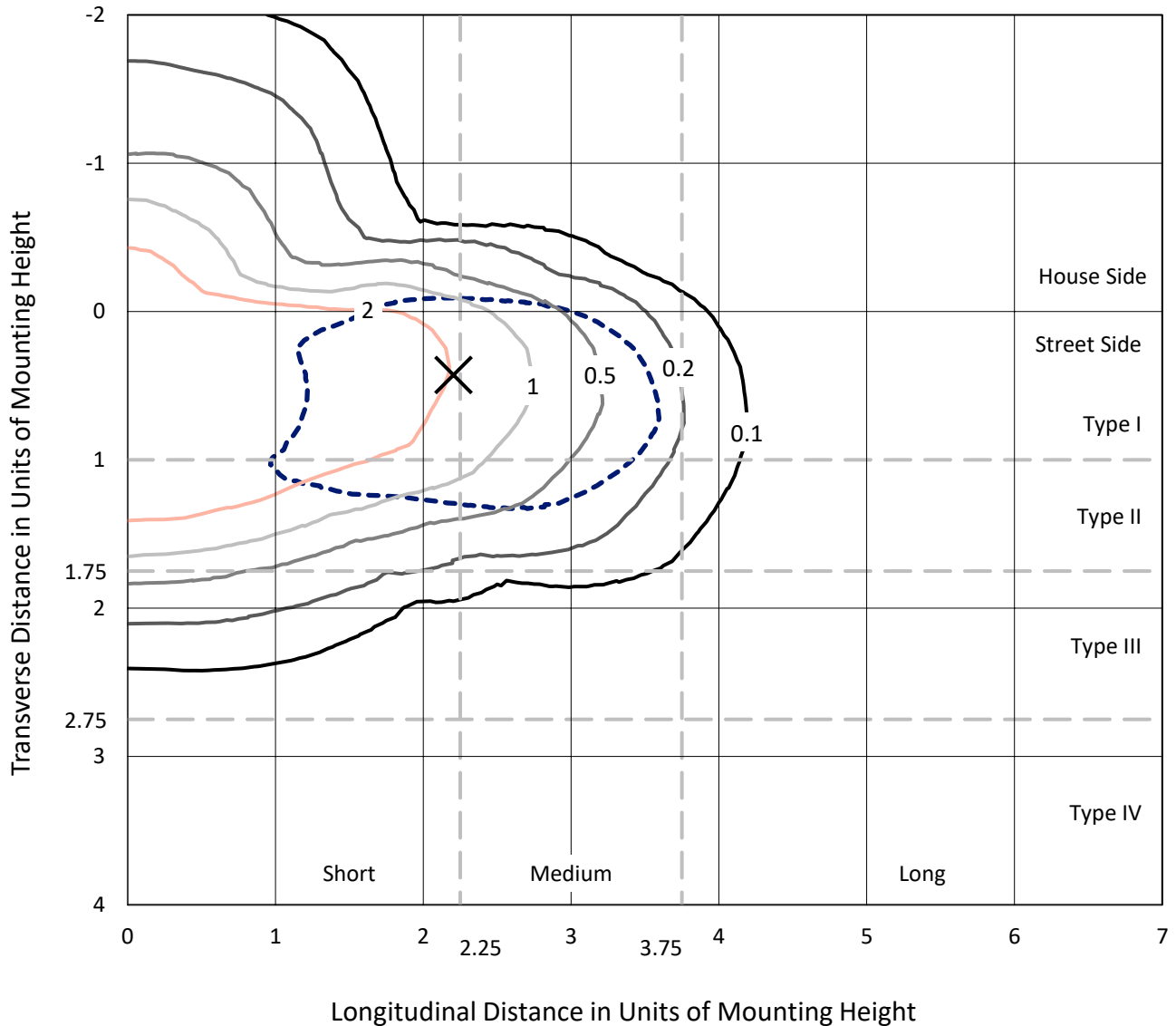
Lumens per Lamp: N/A
Luminaire Lumens: 18192.4 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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: P476577
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

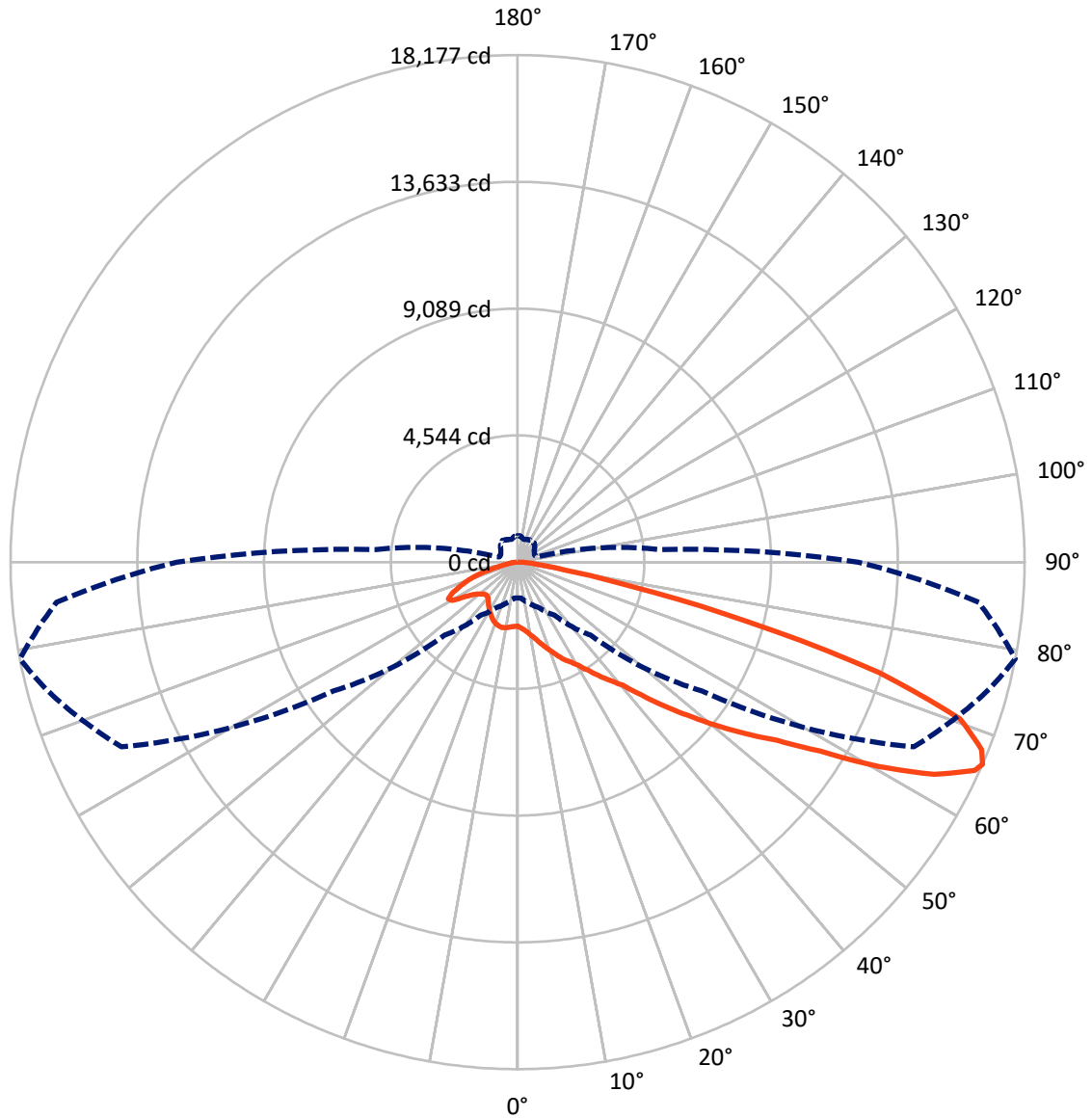
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P476577
CATALOG NUMBER: IFLD-M-SA4A-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2

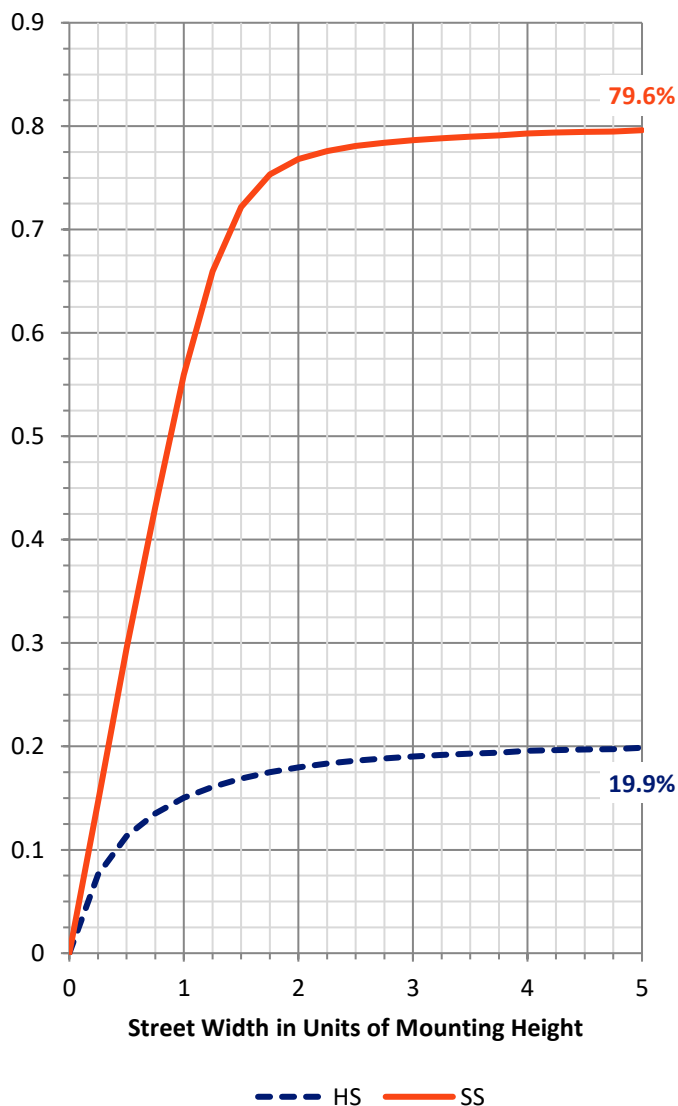
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3673.7	0.0	3673.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	14518.7	0.0	14518.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	18192.4	0.0	18192.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	1.2
10°-20°	697.5	3.8
20°-30°	1197.3	6.6
30°-40°	1849.6	10.2
40°-50°	2962.6	16.3
50°-60°	4423.3	24.3
60°-70°	4545.0	25.0
70°-80°	2014.7	11.1
80°-90°	276.4	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°	18192.4	100.0
0°-180°	18192.4	100.0

Coefficient of Utilization

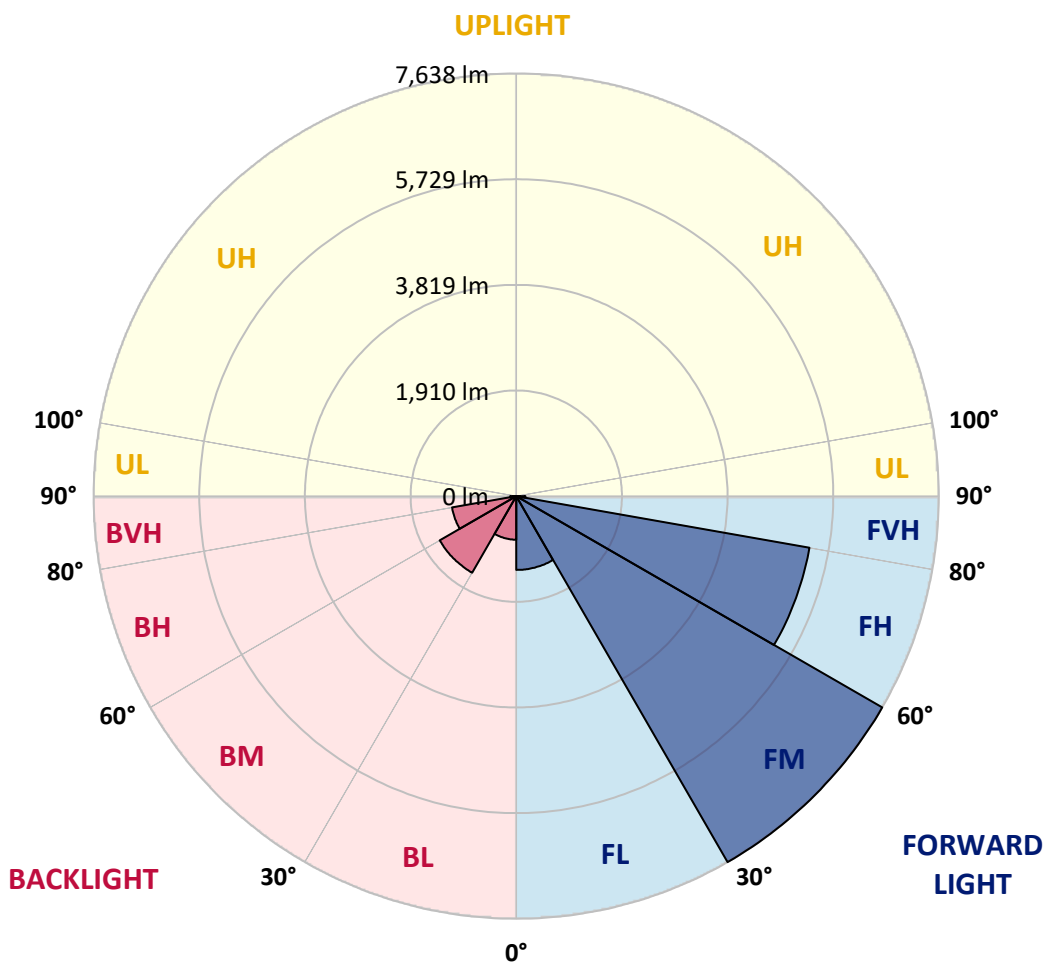


REPORT NUMBER: P476577
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.6	7.3			
FM (30°-60°)	7638.4	42.0			
FH (60°-80°)	5380.9	29.6			G3/7500
FVH (80°-90°)	165.8	0.9			G2/225
BL (0°-30°)	787.1	4.3	B2/1000		
BM (30°-60°)	1597.2	8.8	B2/2500		
BH (60°-80°)	1178.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	110.6	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-G3
 Type II Short





REPORT NUMBER: P476577
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2
2.5°	2443.3	2445.3	2445.3	2437.3	2439.3	2445.3	2423.3	2375.2	2375.2	2367.2	2353.2
5°	2593.3	2583.3	2569.3	2571.3	2563.3	2563.3	2539.3	2493.3	2453.3	2437.3	2395.2
7.5°	2613.4	2623.4	2621.4	2645.4	2657.4	2657.4	2669.4	2631.4	2571.3	2533.3	2491.3
10°	2653.4	2627.4	2625.4	2681.4	2699.4	2741.4	2789.4	2769.4	2719.4	2665.4	2609.4
12.5°	2677.4	2693.4	2693.4	2721.4	2763.4	2825.5	2909.5	2947.5	2869.5	2813.5	2727.4
15°	2713.4	2691.4	2755.4	2779.4	2859.5	2903.5	3023.6	3121.6	3069.6	3001.6	2865.5
17.5°	2729.4	2715.4	2751.4	2795.5	2931.5	2997.6	3143.6	3279.7	3235.7	3191.7	3051.6
20°	2811.5	2809.5	2825.5	2861.5	2959.5	3089.6	3271.7	3459.8	3475.8	3395.8	3205.7
22.5°	3011.6	2985.6	2985.6	2971.5	3013.6	3147.6	3393.8	3653.9	3725.9	3631.9	3379.8
25°	3195.7	3231.7	3209.7	3145.6	3129.6	3199.7	3481.8	3860.0	3956.1	3868.0	3615.9
27.5°	3431.8	3443.8	3481.8	3395.8	3285.7	3307.7	3577.9	3976.1	4174.2	4056.1	3749.9
30°	3772.0	3749.9	3741.9	3645.9	3501.8	3471.8	3687.9	4146.2	4460.3	4294.2	3908.0
32.5°	4002.1	4056.1	4054.1	3922.0	3747.9	3681.9	3824.0	4306.2	4766.5	4612.4	4200.2
35°	4458.3	4514.3	4470.3	4276.2	4072.1	3940.0	4020.1	4514.3	5116.7	4996.6	4448.3
37.5°	5040.6	5172.7	5078.6	4720.5	4432.3	4288.2	4292.2	4740.5	5474.8	5376.8	4714.4
40°	5442.8	5620.9	5490.9	5154.7	4848.5	4712.4	4658.4	5008.6	5903.1	5799.0	5130.7
42.5°	5941.1	6089.2	6021.1	5689.0	5330.8	5214.7	5106.7	5456.8	6557.4	6509.4	5664.9
45°	6485.4	6555.4	6533.4	6323.3	5925.1	5885.1	5646.9	6047.1	7327.8	7347.8	6333.3
47.5°	6991.6	7029.7	7071.7	6919.6	6671.5	6705.5	6269.3	6679.5	8076.2	8208.3	7077.7
50°	7121.7	7251.8	7349.8	7451.9	7505.9	7736.0	6955.6	7455.9	8936.6	9192.8	7906.1
52.5°	6989.6	6979.6	7277.8	7597.9	8138.2	8620.5	7890.1	8420.4	9697.0	10203.3	8664.5
55°	6389.3	6369.3	6849.6	7273.8	8328.3	9112.7	9224.8	9705.0	10615.5	11273.9	9691.0
57.5°	5338.8	5214.7	5739.0	6435.3	7916.1	9166.8	10565.5	11612.0	12028.2	12778.6	11257.8
60°	3587.9	3535.8	4038.1	4868.5	6427.3	8400.4	11367.9	13999.3	14019.3	14863.7	13689.1
62.5°	2209.1	2219.2	2541.3	3163.6	4500.3	6659.5	11021.7	15906.3	15910.3	16756.7	15690.1
65°	1444.8	1450.8	1710.9	2055.1	2811.5	4516.3	9114.7	16056.3	17224.9	18011.4	16606.6
66°	1286.7	1288.7	1512.8	1792.9	2329.2	3695.9	8050.2	15666.1	17521.1	18177.4	16594.6
67.5°	1084.6	1110.6	1290.7	1506.8	1816.9	2655.4	6387.3	14537.6	17369.0	17945.3	16218.4
70°	848.4	862.4	1004.5	1224.6	1362.7	1536.8	3796.0	11850.2	15898.3	16832.7	14849.7
72.5°	680.4	692.4	800.4	994.5	1106.6	1012.5	2067.1	8598.5	12558.5	13555.0	11680.1
75°	574.3	576.3	628.3	782.4	910.5	760.4	1100.6	5518.9	8058.2	8522.4	7155.7
77.5°	464.2	472.2	508.3	596.3	732.4	598.3	656.3	3091.6	4046.1	4080.1	3307.7
80°	378.2	382.2	404.2	434.2	558.3	442.2	444.2	1508.8	1734.9	1694.9	1344.7
82.5°	298.2	302.2	328.2	322.2	410.2	316.2	276.1	726.4	798.4	782.4	618.3
85°	168.1	168.1	258.1	258.1	260.1	200.1	168.1	342.2	422.2	394.2	290.2
87.5°	54.0	56.0	78.0	82.0	130.1	90.0	82.0	128.1	200.1	176.1	104.1
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: P476577
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2	2297.2
2.5°	2345.2	2313.2	2299.2	2253.2	2241.2	2211.1	2197.1	2179.1	2173.1	2147.1	2171.1
5°	2363.2	2353.2	2297.2	2239.2	2195.1	2175.1	2145.1	2105.1	2101.1	2065.1	2061.1
7.5°	2439.3	2405.2	2307.2	2245.2	2157.1	2107.1	2041.1	2021.0	1995.0	1983.0	2009.0
10°	2557.3	2471.3	2325.2	2169.1	2061.1	2001.0	1953.0	1939.0	1941.0	1933.0	1921.0
12.5°	2641.4	2559.3	2295.2	2105.1	1965.0	1907.0	1903.0	1917.0	1939.0	1929.0	1943.0
15°	2761.4	2607.4	2273.2	1999.0	1887.0	1871.0	1869.0	1911.0	1909.0	1909.0	1907.0
17.5°	2873.5	2655.4	2193.1	1907.0	1804.9	1816.9	1831.0	1828.9	1849.0	1857.0	1871.0
20°	3015.6	2711.4	2081.1	1814.9	1742.9	1738.9	1736.9	1738.9	1758.9	1770.9	1760.9
22.5°	3139.6	2723.4	1987.0	1726.9	1668.9	1652.9	1626.8	1652.9	1642.9	1646.9	1658.9
25°	3247.7	2725.4	1853.0	1660.9	1594.8	1558.8	1538.8	1536.8	1518.8	1516.8	1516.8
27.5°	3337.7	2657.4	1734.9	1568.8	1506.8	1472.8	1470.8	1448.8	1402.7	1372.7	1376.7
30°	3407.8	2605.4	1652.9	1488.8	1428.7	1422.7	1404.7	1354.7	1294.7	1256.7	1256.7
32.5°	3531.8	2501.3	1540.8	1406.7	1376.7	1368.7	1326.7	1282.7	1226.6	1190.6	1184.6
35°	3623.9	2405.2	1466.8	1336.7	1322.7	1306.7	1270.7	1222.6	1206.6	1198.6	1204.6
37.5°	3727.9	2297.2	1376.7	1276.7	1290.7	1260.7	1218.6	1196.6	1252.7	1238.6	1244.6
40°	3894.0	2221.2	1288.7	1240.6	1254.7	1220.6	1166.6	1158.6	1228.6	1178.6	1166.6
42.5°	4198.2	2219.2	1234.6	1186.6	1196.6	1170.6	1122.6	1118.6	1146.6	1086.6	1068.6
45°	4576.4	2289.2	1194.6	1146.6	1138.6	1134.6	1118.6	1100.6	1076.6	998.5	978.5
47.5°	5028.6	2403.2	1186.6	1086.6	1096.6	1130.6	1110.6	1064.6	1002.5	952.5	942.5
50°	5576.9	2639.4	1166.6	1042.5	1060.6	1114.6	1098.6	1034.5	978.5	946.5	940.5
52.5°	6183.2	2937.5	1140.6	974.5	1014.5	1100.6	1108.6	1048.5	966.5	938.5	934.5
55°	6897.6	3377.8	1110.6	900.5	960.5	1086.6	1108.6	1008.5	950.5	950.5	946.5
57.5°	8308.3	4170.2	1048.5	832.4	912.5	1060.6	1076.6	1010.5	952.5	952.5	944.5
60°	10377.4	5406.8	930.5	780.4	866.5	1024.5	1052.5	980.5	930.5	942.5	940.5
62.5°	11996.2	5783.0	830.4	730.4	820.4	958.5	1020.5	948.5	904.5	948.5	952.5
65°	12342.4	5402.8	728.4	676.4	756.4	894.5	974.5	902.5	866.5	952.5	956.5
66°	12218.3	5106.7	692.4	660.3	728.4	862.4	946.5	886.5	846.4	948.5	950.5
67.5°	11666.1	4662.4	652.3	626.3	690.4	816.4	914.5	864.4	814.4	936.5	918.5
70°	10465.4	3954.1	584.3	566.3	636.3	740.4	840.4	808.4	764.4	862.4	830.4
72.5°	8060.2	3159.6	512.3	514.3	574.3	662.3	766.4	744.4	706.4	756.4	736.4
75°	4908.5	2019.0	446.2	450.2	500.3	588.3	696.4	680.4	634.3	662.3	652.3
77.5°	2175.1	1000.5	376.2	384.2	424.2	518.3	606.3	580.3	532.3	538.3	534.3
80°	844.4	474.2	306.2	316.2	342.2	414.2	502.3	478.2	436.2	428.2	424.2
82.5°	406.2	264.1	236.1	240.1	250.1	330.2	432.2	402.2	346.2	310.2	310.2
85°	204.1	164.1	166.1	152.1	166.1	224.1	292.2	244.1	202.1	180.1	184.1
87.5°	82.0	82.0	82.0	70.0	74.0	106.1	136.1	92.0	84.0	50.0	50.0
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)