

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: P476736

Luminaire Tested: **IFLD-M-SA4D-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476736
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

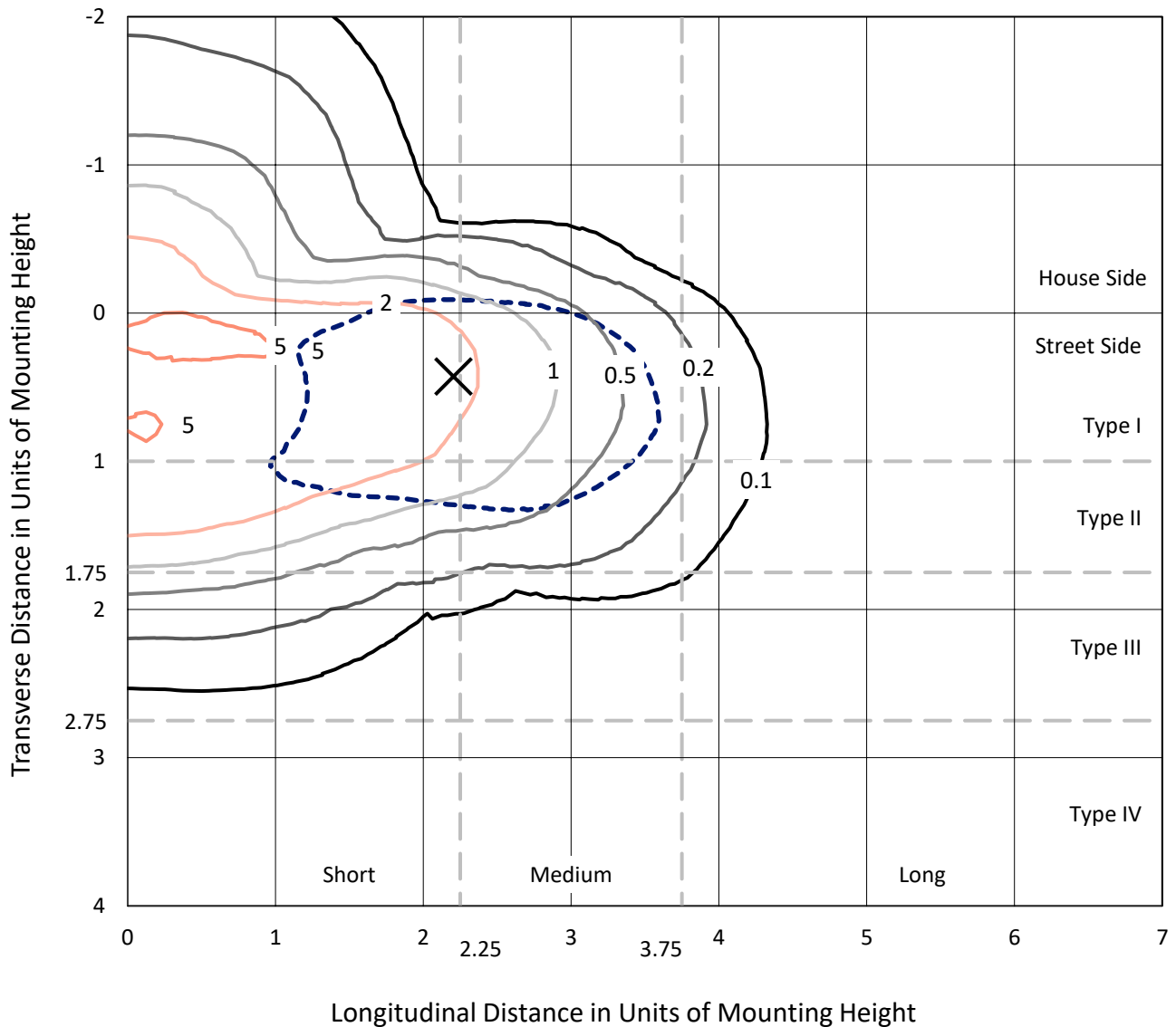
Lumens per Lamp: N/A
Luminaire Lumens: 22969.1 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.7
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: P476736
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

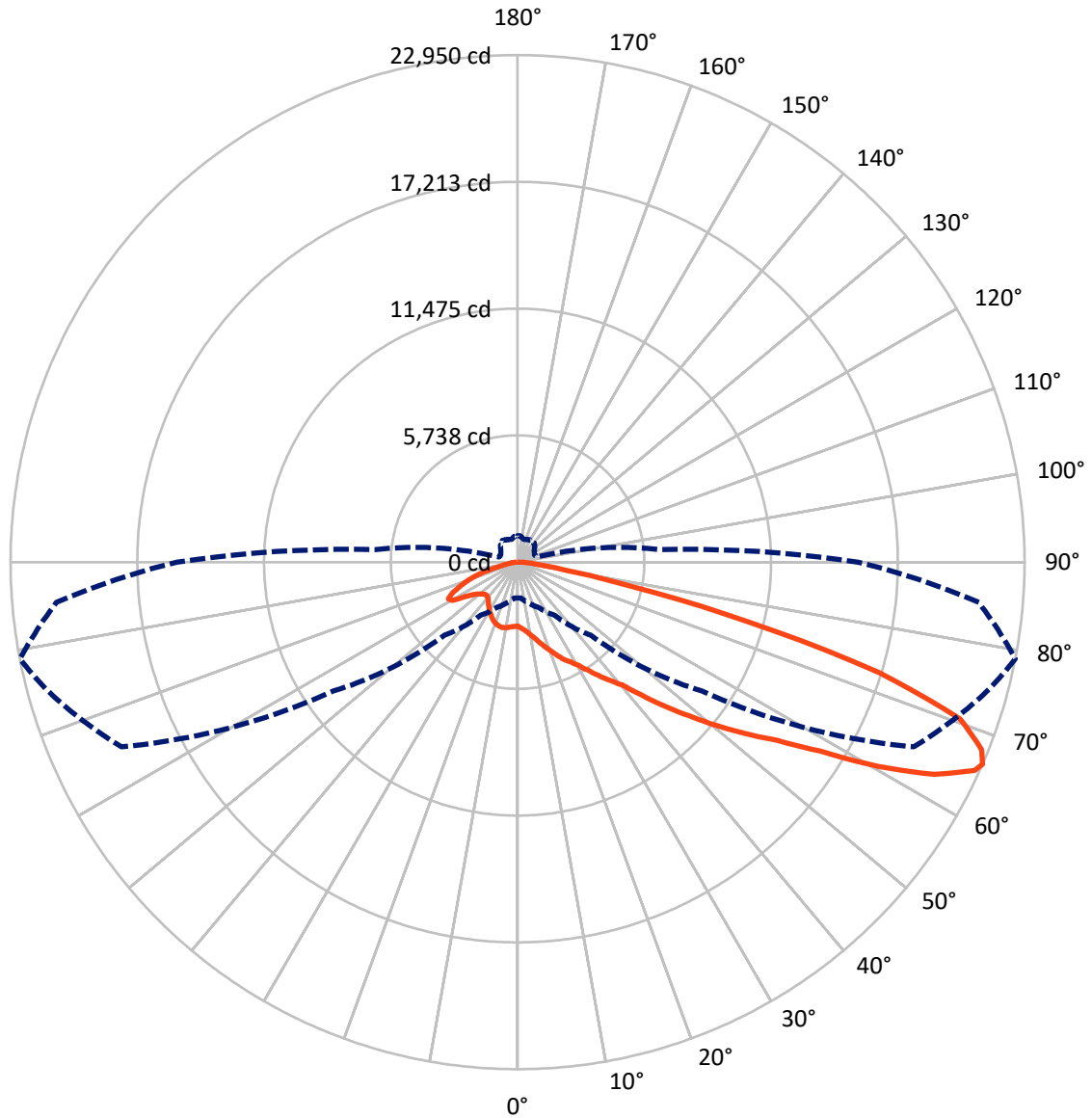
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P476736
CATALOG NUMBER: IFLD-M-SA4D-827-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476736
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2

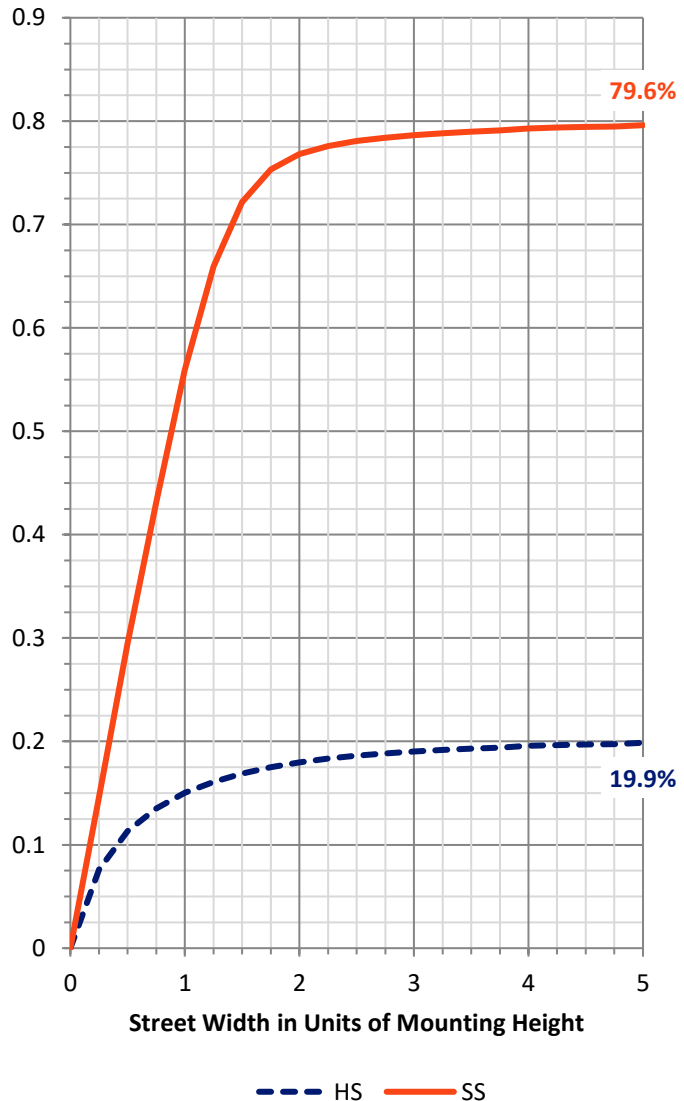
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4638.3	0.0	4638.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18330.8	0.0	18330.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	22969.1	0.0	22969.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.2
10°-20°	880.7	3.8
20°-30°	1511.7	6.6
30°-40°	2335.2	10.2
40°-50°	3740.5	16.3
50°-60°	5584.8	24.3
60°-70°	5738.3	25.0
70°-80°	2543.7	11.1
80°-90°	349.0	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°	22969.1	100.0
0°-180°	22969.1	100.0

Coefficient of Utilization



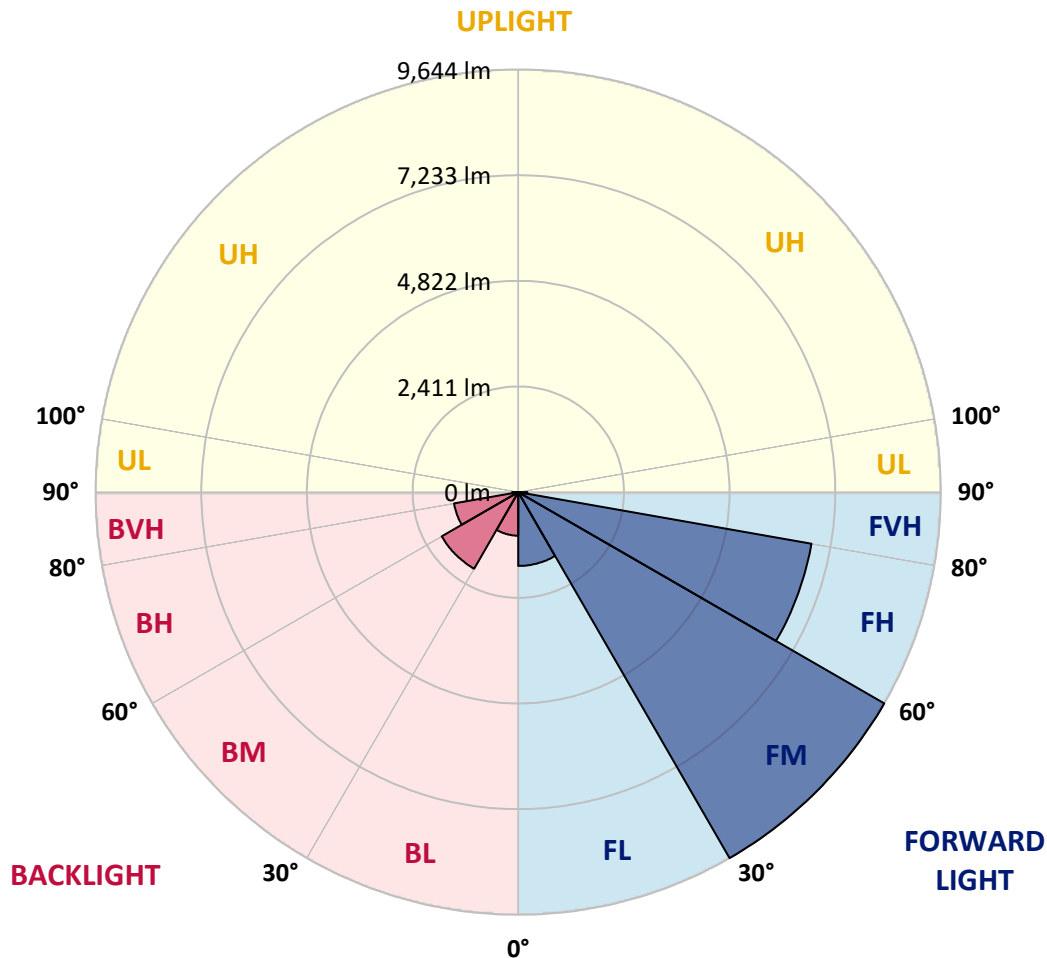
REPORT NUMBER: P476736
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.8	7.3			
FM (30°-60°)	9643.9	42.0			
FH (60°-80°)	6793.7	29.6			G3/7500
FVH (80°-90°)	209.3	0.9			G2/225
BL (0°-30°)	993.7	4.3	B2/1000		
BM (30°-60°)	2016.5	8.8	B2/2500		
BH (60°-80°)	1488.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	139.7	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: P476736
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4
2.5°	3084.8	3087.3	3087.3	3077.2	3079.7	3087.3	3059.5	2998.9	2998.9	2988.8	2971.1
5°	3274.3	3261.6	3244.0	3246.5	3236.4	3236.4	3206.1	3147.9	3097.4	3077.2	3024.2
7.5°	3299.5	3312.2	3309.6	3340.0	3355.1	3355.1	3370.3	3322.3	3246.5	3198.5	3145.4
10°	3350.1	3317.2	3314.7	3385.4	3408.2	3461.2	3521.9	3496.6	3433.4	3365.2	3294.5
12.5°	3380.4	3400.6	3400.6	3436.0	3489.0	3567.3	3673.4	3721.4	3622.9	3552.2	3443.5
15°	3425.9	3398.1	3478.9	3509.2	3610.3	3665.9	3817.5	3941.2	3875.6	3789.7	3617.9
17.5°	3446.1	3428.4	3473.9	3529.4	3701.2	3784.6	3969.0	4140.8	4085.3	4029.7	3852.8
20°	3549.7	3547.1	3567.3	3612.8	3736.6	3900.8	4130.7	4368.2	4388.4	4287.4	4047.4
22.5°	3802.3	3769.5	3769.5	3751.8	3804.8	3974.1	4284.8	4613.3	4704.2	4585.5	4267.2
25°	4034.7	4080.2	4052.4	3971.6	3951.4	4039.8	4396.0	4873.5	4994.8	4883.6	4565.3
27.5°	4332.8	4348.0	4396.0	4287.4	4148.4	4176.2	4517.3	5020.0	5270.2	5121.1	4734.6
30°	4762.3	4734.6	4724.4	4603.2	4421.3	4383.4	4656.2	5234.8	5631.4	5421.7	4934.1
32.5°	5052.9	5121.1	5118.6	4951.8	4732.0	4648.7	4828.0	5436.9	6018.0	5823.4	5303.0
35°	5628.9	5699.7	5644.1	5399.0	5141.3	4974.6	5075.6	5699.7	6460.1	6308.5	5616.3
37.5°	6364.1	6530.9	6412.1	5959.9	5596.1	5414.2	5419.2	5985.1	6912.3	6788.5	5952.3
40°	6871.9	7096.8	6932.6	6508.1	6121.6	5949.8	5881.6	6323.7	7453.0	7321.6	6477.8
42.5°	7501.0	7688.0	7602.1	7182.7	6730.4	6583.9	6447.5	6889.6	8279.2	8218.5	7152.4
45°	8188.2	8276.6	8248.8	7983.6	7480.8	7430.3	7129.6	7634.9	9251.8	9277.1	7996.2
47.5°	8827.4	8875.4	8928.4	8736.4	8423.2	8466.1	7915.3	8433.3	10196.7	10363.5	8936.0
50°	8991.6	9155.8	9279.6	9408.5	9476.7	9767.2	8781.9	9413.5	11283.1	11606.5	9982.0
52.5°	8824.9	8812.2	9188.7	9592.9	10275.0	10883.9	9961.8	10631.3	12243.1	12882.3	10939.5
55°	8066.9	8041.7	8648.0	9183.6	10515.1	11505.4	11646.9	12253.2	13402.8	14234.0	12235.6
57.5°	6740.5	6583.9	7245.8	8125.0	9994.6	11573.6	13339.6	14660.9	15186.4	16133.9	14213.8
60°	4529.9	4464.2	5098.4	6146.8	8114.9	10606.0	14352.7	17675.0	17700.3	18766.4	17283.4
62.5°	2789.2	2801.8	3208.6	3994.3	5682.0	8408.0	13915.6	20082.7	20087.7	21156.4	19809.8
65°	1824.1	1831.7	2160.1	2594.7	3549.7	5702.2	11507.9	20272.2	21747.6	22740.5	20966.9
66°	1624.5	1627.0	1910.0	2263.7	2940.8	4666.3	10163.9	19779.5	22121.5	22950.2	20951.8
67.5°	1369.3	1402.2	1629.6	1902.4	2294.0	3352.6	8064.4	18354.6	21929.5	22657.1	20476.8
70°	1071.2	1088.9	1268.3	1546.2	1720.5	1940.3	4792.7	14961.6	20072.6	21252.4	18748.7
72.5°	859.0	874.1	1010.6	1255.6	1397.1	1278.4	2609.8	10856.1	15855.9	17114.1	14746.8
75°	725.1	727.6	793.3	987.8	1149.5	960.0	1389.5	6967.9	10174.0	10760.1	9034.6
77.5°	586.1	596.2	641.7	752.9	924.7	755.4	828.7	3903.4	5108.5	5151.4	4176.2
80°	477.5	482.6	510.3	548.2	704.9	558.3	560.9	1904.9	2190.4	2139.9	1697.8
82.5°	376.4	381.5	414.3	406.8	517.9	399.2	348.6	917.1	1008.1	987.8	780.7
85°	212.2	212.2	325.9	325.9	328.4	252.6	212.2	432.0	533.1	497.7	366.3
87.5°	68.2	70.7	98.5	103.6	164.2	113.7	103.6	161.7	252.6	222.3	131.4
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: P476736
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4	2900.4
2.5°	2961.0	2920.6	2902.9	2844.8	2829.6	2791.7	2774.0	2751.3	2743.7	2710.9	2741.2
5°	2983.7	2971.1	2900.4	2827.1	2771.5	2746.2	2708.3	2657.8	2652.8	2607.3	2602.2
7.5°	3079.7	3036.8	2913.0	2834.7	2723.5	2660.3	2577.0	2551.7	2518.9	2503.7	2536.5
10°	3228.8	3120.2	2935.7	2738.7	2602.2	2526.4	2465.8	2448.1	2450.6	2440.5	2425.4
12.5°	3334.9	3231.3	2897.8	2657.8	2481.0	2407.7	2402.6	2420.3	2448.1	2435.5	2453.2
15°	3486.5	3292.0	2870.0	2523.9	2382.4	2362.2	2359.7	2412.8	2410.2	2410.2	2407.7
17.5°	3628.0	3352.6	2769.0	2407.7	2278.9	2294.0	2311.7	2309.2	2334.4	2344.5	2362.2
20°	3807.3	3423.3	2627.5	2291.5	2200.5	2195.5	2193.0	2195.5	2220.7	2235.9	2223.3
22.5°	3964.0	3438.5	2508.8	2180.3	2107.1	2086.8	2054.0	2086.8	2074.2	2079.3	2094.4
25°	4100.4	3441.0	2339.5	2096.9	2013.6	1968.1	1942.8	1940.3	1917.6	1915.0	1915.0
27.5°	4214.1	3355.1	2190.4	1980.7	1902.4	1859.5	1856.9	1829.1	1771.0	1733.1	1738.2
30°	4302.5	3289.4	2086.8	1879.7	1803.9	1796.3	1773.6	1710.4	1634.6	1586.6	1586.6
32.5°	4459.2	3158.1	1945.4	1776.1	1738.2	1728.1	1675.0	1619.4	1548.7	1503.2	1495.7
35°	4575.4	3036.8	1851.9	1687.7	1670.0	1649.8	1604.3	1543.7	1523.4	1513.3	1520.9
37.5°	4706.8	2900.4	1738.2	1611.9	1629.6	1591.7	1538.6	1510.8	1581.6	1563.9	1571.4
40°	4916.5	2804.4	1627.0	1566.4	1584.1	1541.1	1472.9	1462.8	1551.2	1488.1	1472.9
42.5°	5300.5	2801.8	1558.8	1498.2	1510.8	1478.0	1417.3	1412.3	1447.7	1371.9	1349.1
45°	5778.0	2890.2	1508.3	1447.7	1437.5	1432.5	1412.3	1389.5	1359.2	1260.7	1235.4
47.5°	6348.9	3034.3	1498.2	1371.9	1384.5	1427.4	1402.2	1344.1	1265.7	1202.6	1190.0
50°	7041.2	3332.4	1472.9	1316.3	1339.0	1407.2	1387.0	1306.2	1235.4	1195.0	1187.4
52.5°	7806.7	3708.8	1440.1	1230.4	1280.9	1389.5	1399.6	1323.9	1220.3	1184.9	1179.8
55°	8708.6	4264.6	1402.2	1136.9	1212.7	1371.9	1399.6	1273.3	1200.1	1200.1	1195.0
57.5°	10489.8	5265.1	1323.9	1051.0	1152.1	1339.0	1359.2	1275.9	1202.6	1202.6	1192.5
60°	13102.1	6826.4	1174.8	985.3	1093.9	1293.5	1328.9	1238.0	1174.8	1190.0	1187.4
62.5°	15146.0	7301.4	1048.5	922.2	1035.8	1210.2	1288.5	1197.5	1142.0	1197.5	1202.6
65°	15583.1	6821.4	919.6	853.9	955.0	1129.3	1230.4	1139.4	1093.9	1202.6	1207.6
66°	15426.5	6447.5	874.1	833.7	919.6	1088.9	1195.0	1119.2	1068.7	1197.5	1200.1
67.5°	14729.2	5886.6	823.6	790.8	871.6	1030.8	1154.6	1091.4	1028.3	1182.4	1159.6
70°	13213.3	4992.2	737.7	715.0	803.4	934.8	1061.1	1020.7	965.1	1088.9	1048.5
72.5°	10176.5	3989.3	646.8	649.3	725.1	836.3	967.6	939.8	891.8	955.0	929.7
75°	6197.4	2549.2	563.4	568.4	631.6	742.8	879.2	859.0	800.9	836.3	823.6
77.5°	2746.2	1263.2	475.0	485.1	535.6	654.3	765.5	732.7	672.0	679.6	674.6
80°	1066.2	598.8	386.5	399.2	432.0	523.0	634.1	603.8	550.8	540.7	535.6
82.5°	512.9	333.5	298.1	303.2	315.8	416.9	545.7	507.8	437.1	391.6	391.6
85°	257.7	207.2	209.7	192.0	209.7	283.0	368.9	308.2	255.2	227.4	232.4
87.5°	103.6	103.6	103.6	88.4	93.5	133.9	171.8	116.2	106.1	63.2	63.2
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)