

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: P476729

Luminaire Tested: **IFLD-S-SA6B-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

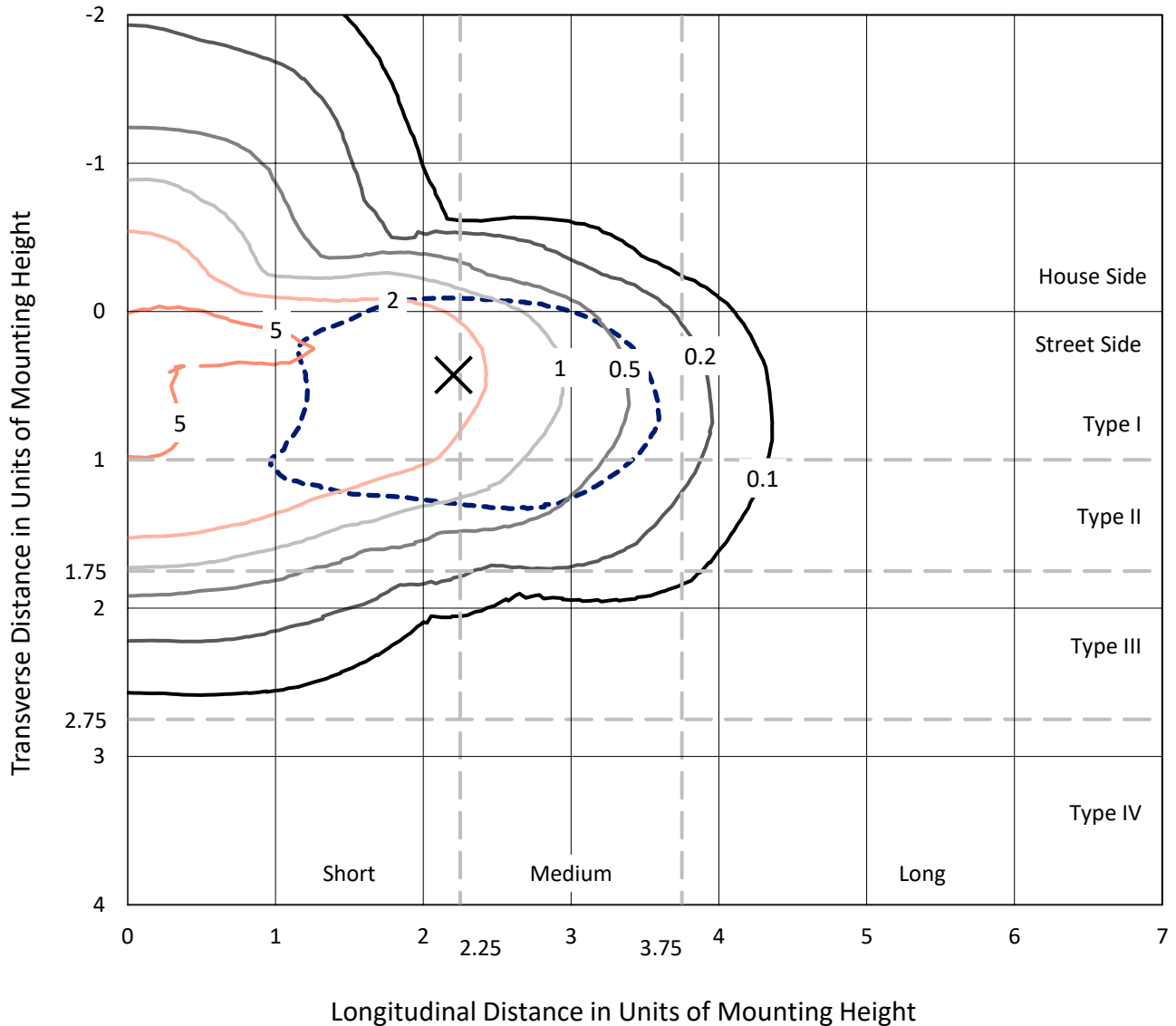
Lumens per Lamp: N/A
Luminaire Lumens: 24507.8 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

REPORT NUMBER: P476729
 CATALOG NUMBER: IFLD-S-SA6B-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

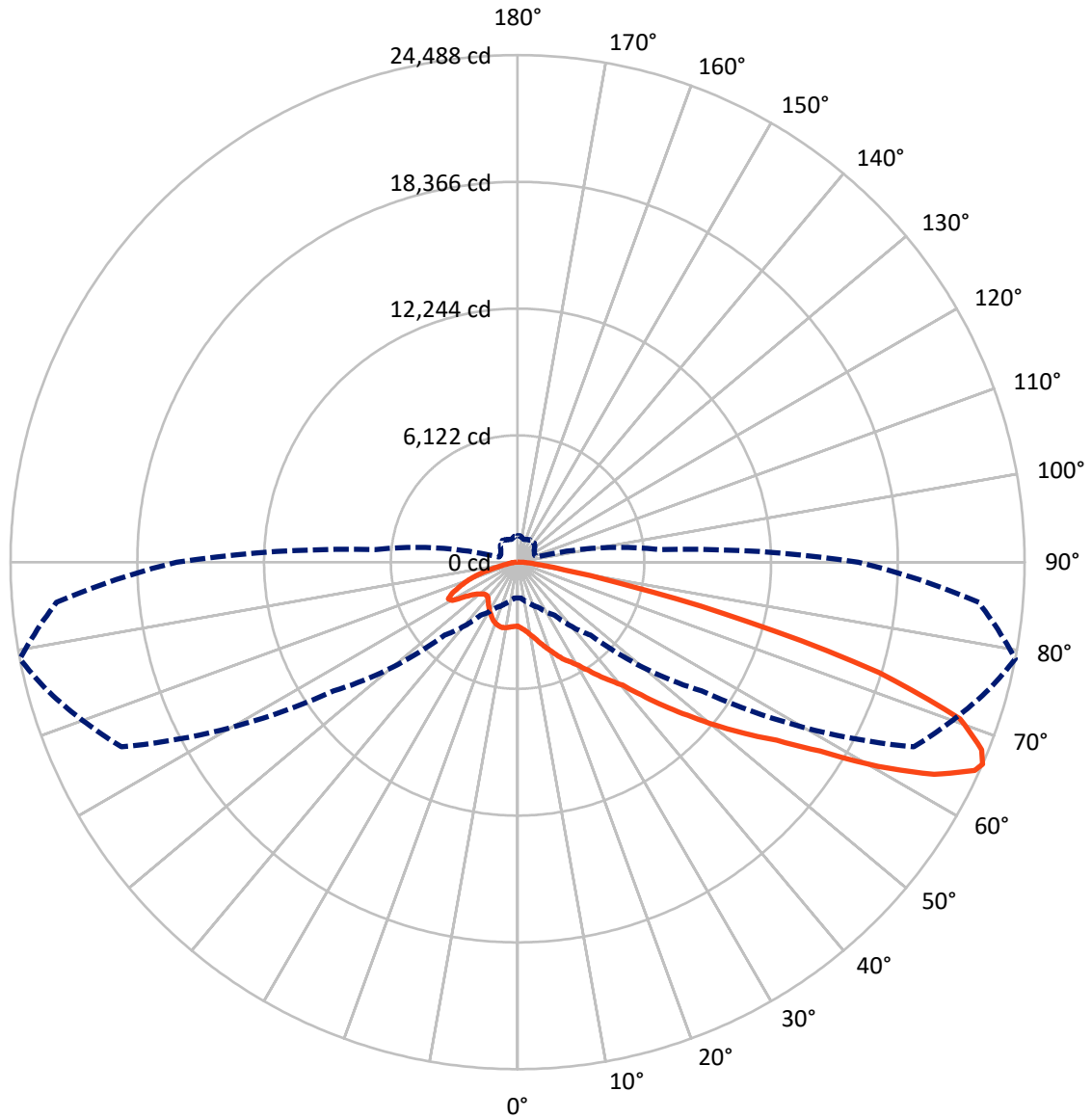
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P476729
CATALOG NUMBER: IFLD-S-SA6B-827-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476729

CATALOG NUMBER: IFLD-S-SA6B-827-U-T2

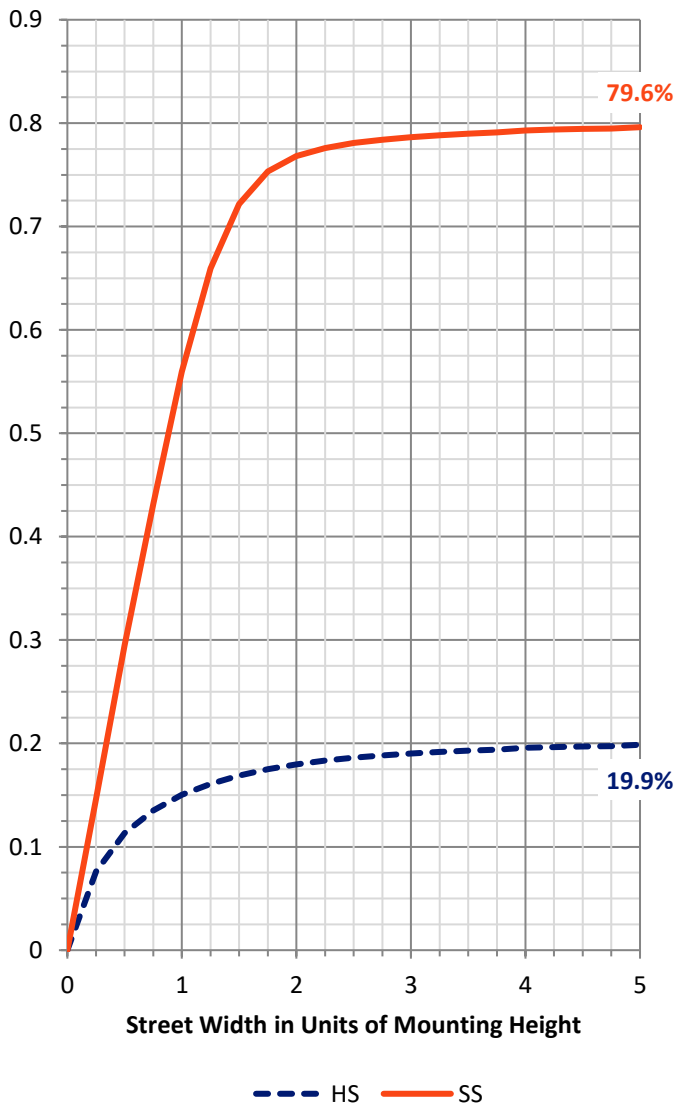
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4949.0	0.0	4949.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	19558.8	0.0	19558.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	24507.8	0.0	24507.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	1.2
10°-20°	939.7	3.8
20°-30°	1612.9	6.6
30°-40°	2491.7	10.2
40°-50°	3991.0	16.3
50°-60°	5958.9	24.3
60°-70°	6122.8	25.0
70°-80°	2714.1	11.1
80°-90°	372.4	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°	24507.8	100.0
0°-180°	24507.8	100.0



REPORT NUMBER: P476729

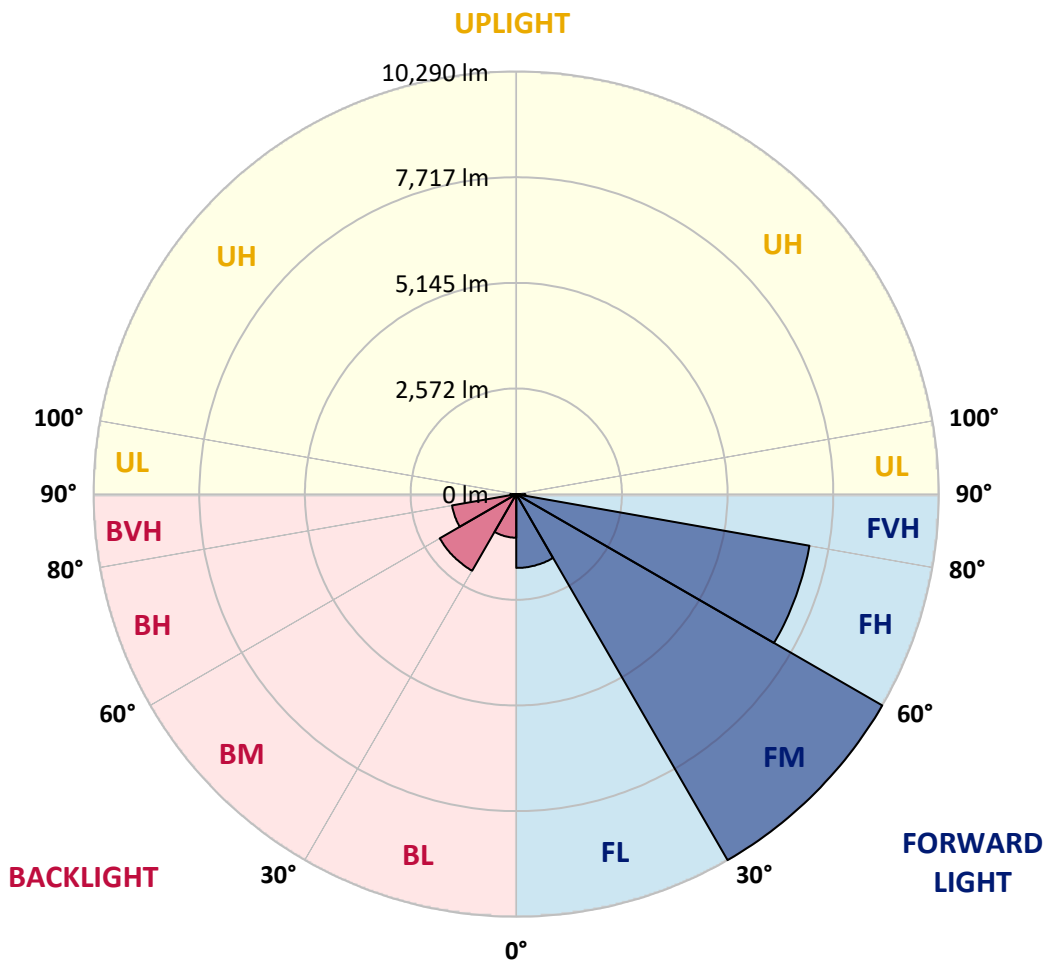
CATALOG NUMBER: IFLD-S-SA6B-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.6	7.3			
FM (30°-60°)	10290.0	42.0			
FH (60°-80°)	7248.9	29.6			G3/7500
FVH (80°-90°)	223.4	0.9			G2/225
BL (0°-30°)	1060.3	4.3	B3/2500		
BM (30°-60°)	2151.6	8.8	B2/2500		
BH (60°-80°)	1588.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	149.0	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: P476729

CATALOG NUMBER: IFLD-S-SA6B-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7
2.5°	3291.4	3294.1	3294.1	3283.4	3286.0	3294.1	3264.5	3199.8	3199.8	3189.0	3170.1
5°	3493.6	3480.1	3461.3	3464.0	3453.2	3453.2	3420.8	3358.8	3304.9	3283.4	3226.7
7.5°	3520.6	3534.1	3531.4	3563.7	3579.9	3579.9	3596.1	3544.8	3464.0	3412.7	3356.1
10°	3574.5	3539.4	3536.7	3612.2	3636.5	3693.1	3757.8	3730.8	3663.4	3590.7	3515.2
12.5°	3606.8	3628.4	3628.4	3666.1	3722.7	3806.3	3919.5	3970.8	3865.6	3790.1	3674.2
15°	3655.4	3625.7	3712.0	3744.3	3852.1	3911.4	4073.2	4205.3	4135.2	4043.5	3860.2
17.5°	3676.9	3658.1	3706.6	3765.9	3949.2	4038.1	4234.9	4418.2	4358.9	4299.6	4110.9
20°	3787.4	3784.8	3806.3	3854.8	3986.9	4162.1	4407.5	4660.9	4682.4	4574.6	4318.5
22.5°	4057.0	4022.0	4022.0	4003.1	4059.7	4240.3	4571.9	4922.3	5019.4	4892.7	4553.0
25°	4305.0	4353.5	4323.9	4237.6	4216.1	4310.4	4690.5	5200.0	5329.4	5210.8	4871.1
27.5°	4623.1	4639.3	4690.5	4574.6	4426.3	4456.0	4819.9	5356.3	5623.2	5464.2	5051.7
30°	5081.4	5051.7	5040.9	4911.5	4717.5	4677.0	4968.2	5585.5	6008.7	5785.0	5264.7
32.5°	5391.4	5464.2	5461.5	5283.6	5049.0	4960.1	5151.5	5801.1	6421.1	6213.6	5658.3
35°	6006.0	6081.5	6022.2	5760.7	5485.7	5307.8	5415.6	6081.5	6892.9	6731.1	5992.5
37.5°	6790.4	6968.4	6841.7	6359.1	5971.0	5776.9	5782.3	6386.1	7375.4	7243.3	6351.0
40°	7332.3	7572.2	7397.0	6944.1	6531.7	6348.4	6275.6	6747.3	7952.3	7812.1	6911.8
42.5°	8003.5	8203.0	8111.3	7663.9	7181.3	7025.0	6879.4	7351.1	8833.8	8769.1	7631.5
45°	8736.7	8831.1	8801.4	8518.4	7981.9	7928.0	7607.2	8146.4	9871.6	9898.6	8531.9
47.5°	9418.7	9470.0	9526.6	9321.7	8987.4	9033.3	8445.6	8998.2	10879.8	11057.7	9534.7
50°	9594.0	9769.2	9901.3	10038.8	10111.5	10421.5	9370.2	10044.1	12039.0	12384.0	10650.7
52.5°	9416.0	9402.6	9804.2	10235.5	10963.4	11613.0	10629.1	11343.5	13063.3	13745.3	11672.3
55°	8607.3	8580.4	9227.4	9798.8	11219.5	12276.2	12427.1	13074.1	14300.6	15187.5	13055.2
57.5°	7192.1	7025.0	7731.2	8669.3	10664.2	12349.0	14233.2	15643.1	16203.8	17214.7	15166.0
60°	4833.4	4763.3	5439.9	6558.6	8658.6	11316.5	15314.2	18859.1	18886.0	20023.6	18441.2
62.5°	2976.0	2989.5	3423.5	4261.9	6062.6	8971.3	14847.9	21428.0	21433.4	22573.7	21136.9
65°	1946.3	1954.4	2304.8	2768.5	3787.4	6084.2	12278.9	21630.2	23204.5	24263.9	22371.5
66°	1733.3	1736.0	2037.9	2415.3	3137.8	4978.9	10844.8	21104.6	23603.5	24487.7	22355.4
67.5°	1461.1	1496.1	1738.7	2029.9	2447.7	3577.2	8604.6	19584.2	23398.6	24175.0	21848.6
70°	1143.0	1161.8	1353.2	1649.8	1835.8	2070.3	5113.7	15963.9	21417.3	22676.2	20004.7
72.5°	916.5	932.7	1078.3	1339.8	1490.7	1364.0	2784.6	11583.4	16918.2	18260.6	15734.7
75°	773.7	776.4	846.4	1054.0	1226.5	1024.4	1482.6	7434.7	10855.5	11480.9	9639.8
77.5°	625.4	636.2	684.7	803.3	986.6	806.0	884.2	4164.8	5450.7	5496.5	4456.0
80°	509.5	514.9	544.5	585.0	752.1	595.7	598.4	2032.6	2337.2	2283.3	1811.5
82.5°	401.7	407.0	442.1	434.0	552.6	425.9	372.0	978.5	1075.6	1054.0	833.0
85°	226.4	226.4	347.7	347.7	350.4	269.6	226.4	461.0	568.8	531.1	390.9
87.5°	72.8	75.5	105.1	110.5	175.2	121.3	110.5	172.5	269.6	237.2	140.2
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: P476729
 CATALOG NUMBER: IFLD-S-SA6B-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7	3094.7
2.5°	3159.4	3116.2	3097.3	3035.3	3019.2	2978.7	2959.9	2935.6	2927.5	2892.5	2924.8
5°	3183.6	3170.1	3094.7	3016.5	2957.2	2930.2	2889.8	2835.9	2830.5	2782.0	2776.6
7.5°	3286.0	3240.2	3108.1	3024.6	2906.0	2838.6	2749.6	2722.6	2687.6	2671.4	2706.5
10°	3445.1	3329.2	3132.4	2922.1	2776.6	2695.7	2631.0	2612.1	2614.8	2604.0	2587.9
12.5°	3558.3	3447.8	3092.0	2835.9	2647.2	2569.0	2563.6	2582.5	2612.1	2598.6	2617.5
15°	3720.1	3512.5	3062.3	2693.0	2542.0	2520.5	2517.8	2574.4	2571.7	2571.7	2569.0
17.5°	3871.0	3577.2	2954.5	2569.0	2431.5	2447.7	2466.6	2463.9	2490.8	2501.6	2520.5
20°	4062.4	3652.7	2803.5	2445.0	2347.9	2342.6	2339.9	2342.6	2369.5	2385.7	2372.2
22.5°	4229.5	3668.8	2676.8	2326.4	2248.2	2226.6	2191.6	2226.6	2213.2	2218.6	2234.7
25°	4375.1	3671.5	2496.2	2237.4	2148.5	2099.9	2073.0	2070.3	2046.0	2043.3	2043.3
27.5°	4496.4	3579.9	2337.2	2113.4	2029.9	1984.0	1981.3	1951.7	1889.7	1849.2	1854.6
30°	4590.8	3509.8	2226.6	2005.6	1924.7	1916.6	1892.4	1825.0	1744.1	1692.9	1692.9
32.5°	4757.9	3369.6	2075.7	1895.1	1854.6	1843.9	1787.2	1727.9	1652.5	1603.9	1595.8
35°	4881.9	3240.2	1975.9	1800.7	1781.9	1760.3	1711.8	1647.1	1625.5	1614.7	1622.8
37.5°	5022.1	3094.7	1854.6	1719.9	1738.7	1698.3	1641.7	1612.0	1687.5	1668.6	1676.7
40°	5245.8	2992.2	1736.0	1671.3	1690.2	1644.4	1571.6	1560.8	1655.2	1587.8	1571.6
42.5°	5655.6	2989.5	1663.2	1598.5	1612.0	1577.0	1512.3	1506.9	1544.6	1463.8	1439.5
45°	6165.0	3083.9	1609.3	1544.6	1533.8	1528.5	1506.9	1482.6	1450.3	1345.1	1318.2
47.5°	6774.3	3237.5	1598.5	1463.8	1477.2	1523.1	1496.1	1434.1	1350.5	1283.1	1269.7
50°	7512.9	3555.6	1571.6	1404.5	1428.7	1501.5	1479.9	1393.7	1318.2	1275.1	1267.0
52.5°	8329.7	3957.3	1536.5	1312.8	1366.7	1482.6	1493.4	1412.5	1302.0	1264.3	1258.9
55°	9292.0	4550.3	1496.1	1213.1	1293.9	1463.8	1493.4	1358.6	1280.5	1280.5	1275.1
57.5°	11192.5	5617.8	1412.5	1121.4	1229.2	1428.7	1450.3	1361.3	1283.1	1283.1	1272.4
60°	13979.9	7283.8	1253.5	1051.3	1167.2	1380.2	1417.9	1320.9	1253.5	1269.7	1267.0
62.5°	16160.7	7790.5	1118.7	983.9	1105.2	1291.2	1374.8	1277.8	1218.5	1277.8	1283.1
65°	16627.0	7278.4	981.2	911.1	1019.0	1205.0	1312.8	1215.8	1167.2	1283.1	1288.5
66°	16459.9	6879.4	932.7	889.6	981.2	1161.8	1275.1	1194.2	1140.3	1277.8	1280.5
67.5°	15715.9	6281.0	878.8	843.8	930.0	1099.8	1231.9	1164.5	1097.1	1261.6	1237.3
70°	14098.5	5326.7	787.1	762.9	857.2	997.4	1132.2	1089.1	1029.8	1161.8	1118.7
72.5°	10858.2	4256.5	690.1	692.8	773.7	892.3	1032.4	1002.8	951.6	1019.0	992.0
75°	6612.5	2720.0	601.1	606.5	673.9	792.5	938.1	916.5	854.5	892.3	878.8
77.5°	2930.2	1347.8	506.8	517.6	571.5	698.2	816.8	781.8	717.1	725.1	719.7
80°	1137.6	638.9	412.4	425.9	461.0	558.0	676.6	644.3	587.7	576.9	571.5
82.5°	547.2	355.8	318.1	323.5	337.0	444.8	582.3	541.8	466.4	417.8	417.8
85°	275.0	221.0	223.7	204.9	223.7	301.9	393.6	328.9	272.3	242.6	248.0
87.5°	110.5	110.5	110.5	94.3	99.7	142.9	183.3	124.0	113.2	67.4	67.4
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)