

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: P476502

Luminaire Tested: **IFLD-M-SA4D-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476502
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

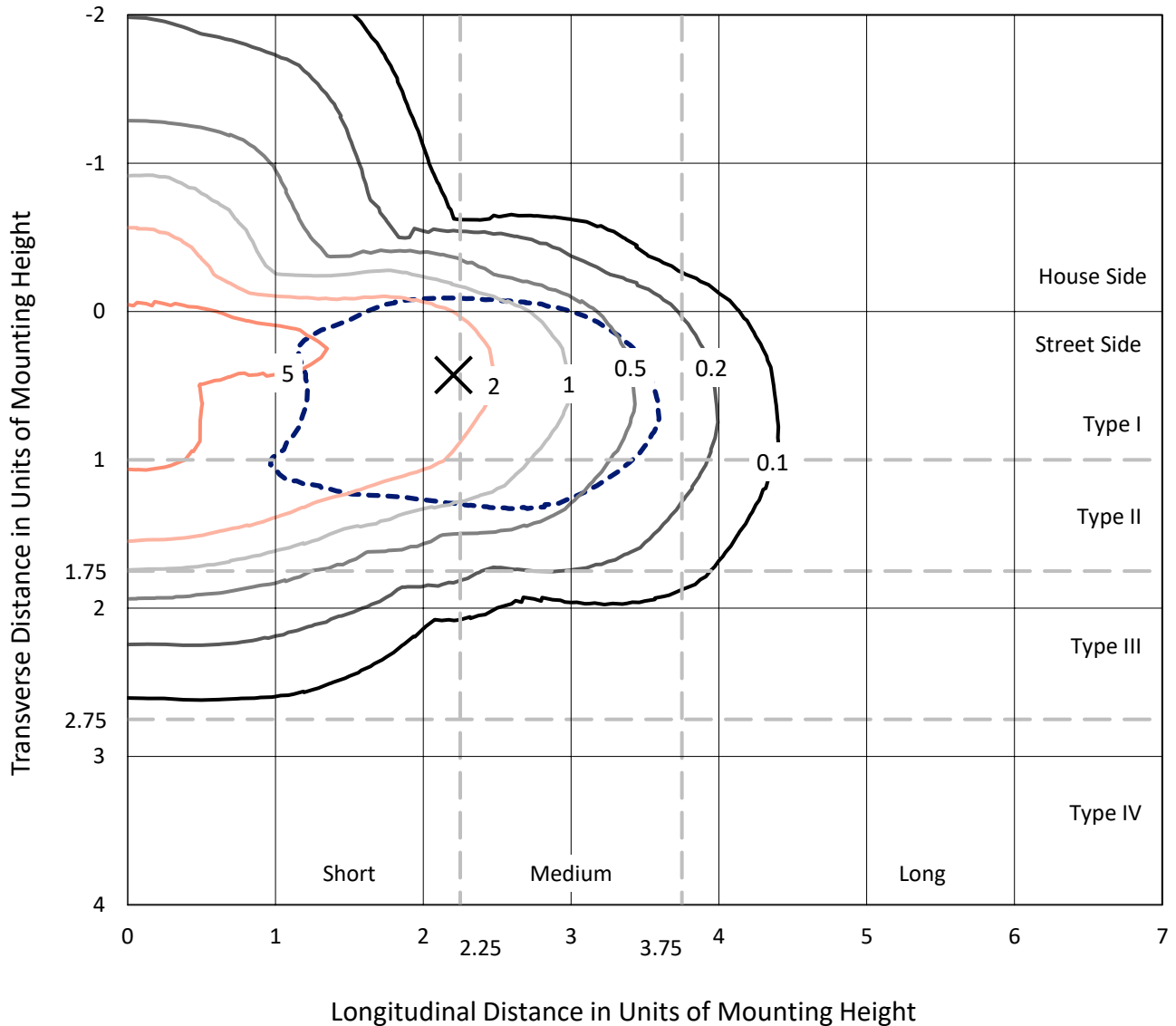
Lumens per Lamp: N/A
Luminaire Lumens: 26131.2 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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: P476502
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

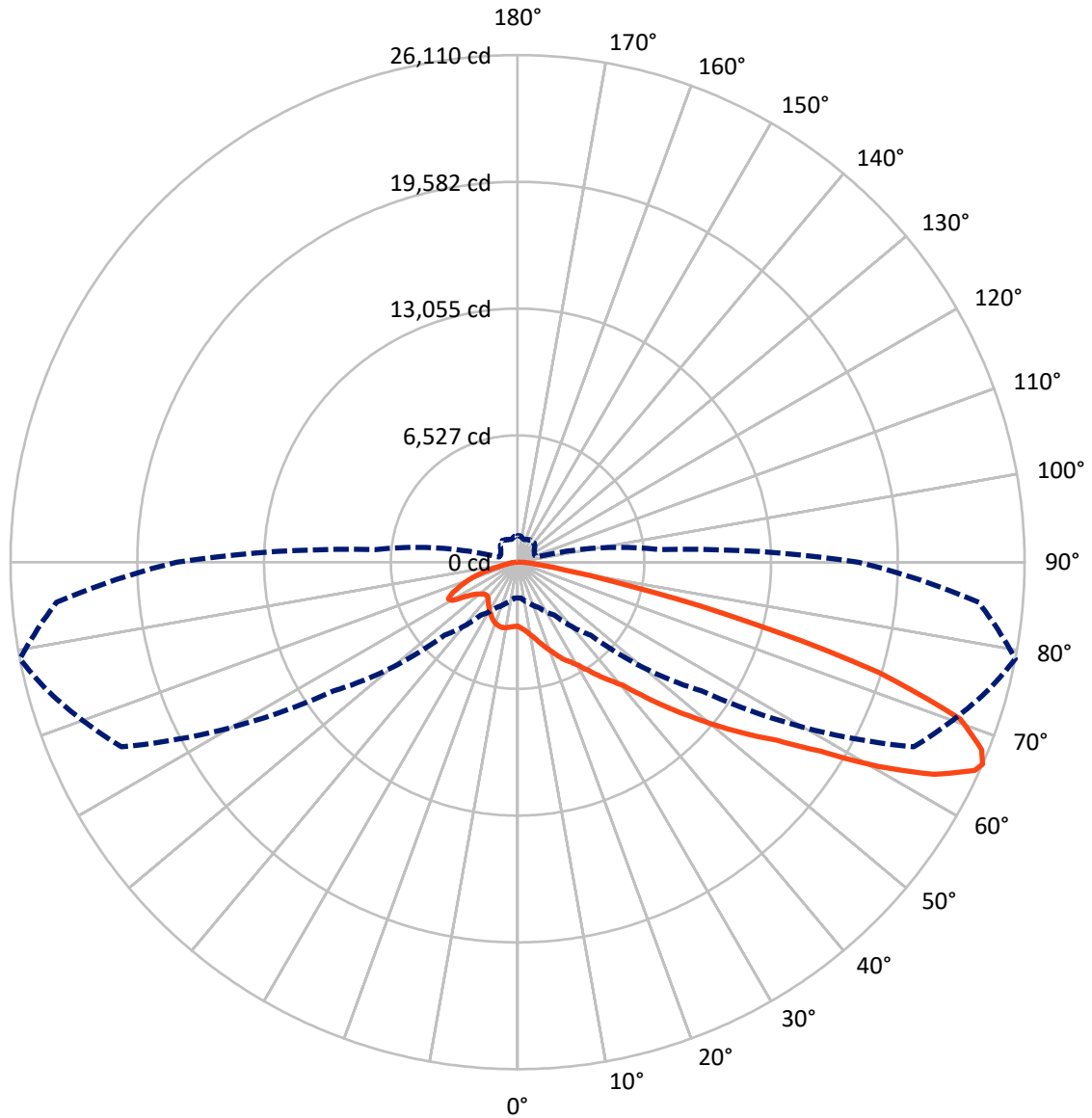
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

REPORT NUMBER: P476502
CATALOG NUMBER: IFLD-M-SA4D-727-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476502
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2

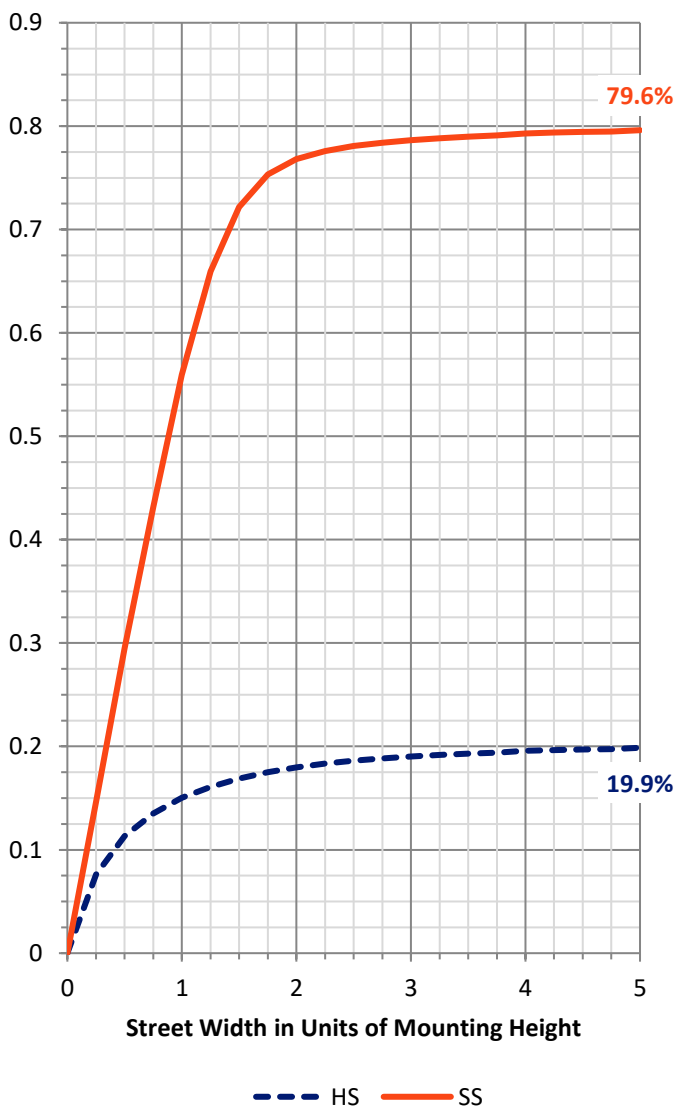
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5276.8	0.0	5276.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	20854.3	0.0	20854.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	26131.2	0.0	26131.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.2
10°-20°	1001.9	3.8
20°-30°	1719.8	6.6
30°-40°	2656.7	10.2
40°-50°	4255.4	16.3
50°-60°	6353.6	24.3
60°-70°	6528.3	25.0
70°-80°	2893.9	11.1
80°-90°	397.1	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°	26131.2	100.0
0°-180°	26131.2	100.0

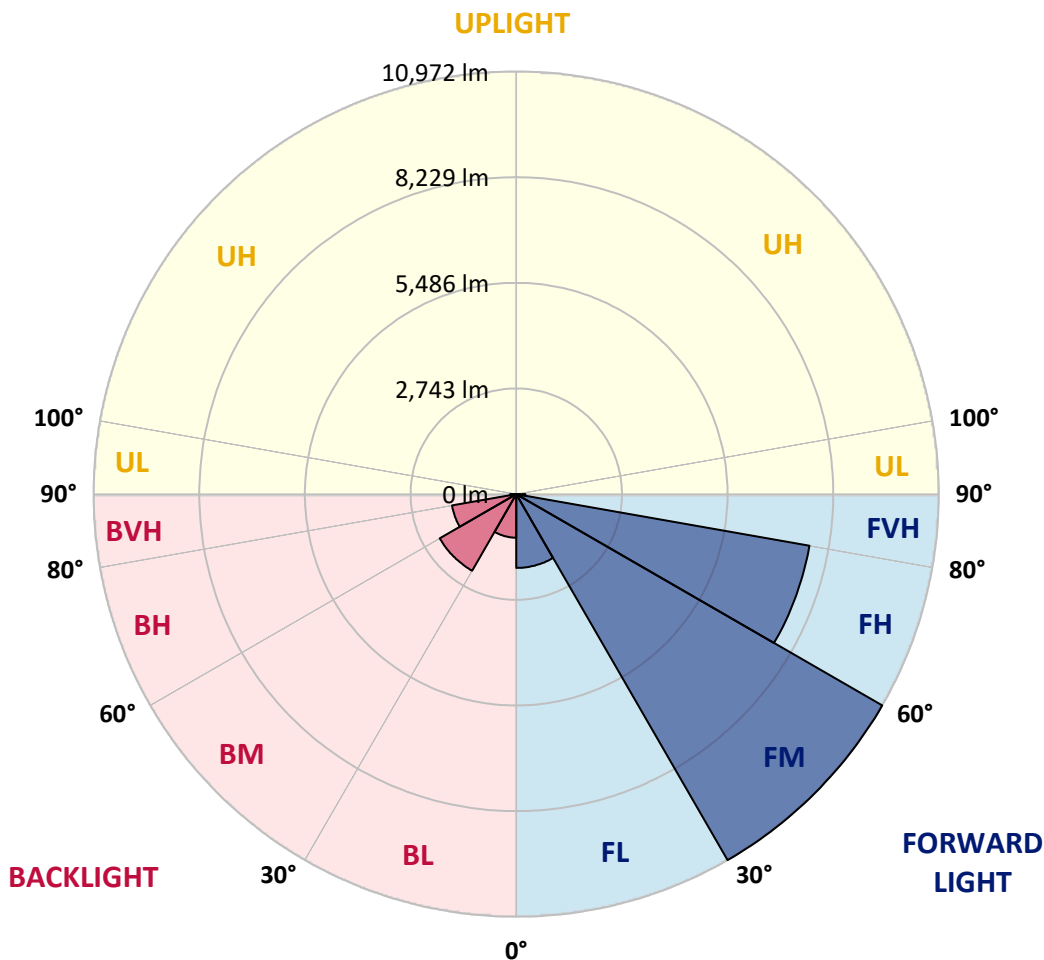


REPORT NUMBER: P476502
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.6	7.3			
FM (30°-60°)	10971.6	42.0			
FH (60°-80°)	7729.0	29.6			G4/12000
FVH (80°-90°)	238.1	0.9			G3/500
BL (0°-30°)	1130.6	4.3	B3/2500		
BM (30°-60°)	2294.1	8.8	B2/2500		
BH (60°-80°)	1693.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	158.9	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-G4
 Type II Short





REPORT NUMBER: P476502
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3509.5	3512.3	3512.3	3500.8	3503.7	3512.3	3480.7	3411.7	3411.7	3400.2	3380.1
5°	3725.0	3710.7	3690.5	3693.4	3681.9	3681.9	3647.4	3581.3	3523.8	3500.8	3440.5
7.5°	3753.8	3768.1	3765.3	3799.8	3817.0	3817.0	3834.3	3779.6	3693.4	3638.8	3578.4
10°	3811.3	3773.9	3771.0	3851.5	3877.4	3937.7	4006.7	3978.0	3906.1	3828.5	3748.0
12.5°	3845.8	3868.7	3868.7	3909.0	3969.3	4058.4	4179.2	4233.8	4121.7	4041.2	3917.6
15°	3897.5	3865.9	3957.8	3992.3	4107.3	4170.5	4343.0	4483.8	4409.1	4311.4	4115.9
17.5°	3920.5	3900.4	3952.1	4015.3	4210.8	4305.6	4515.5	4710.9	4647.7	4584.4	4383.2
20°	4038.3	4035.5	4058.4	4110.2	4251.0	4437.8	4699.4	4969.6	4992.6	4877.6	4604.6
22.5°	4325.8	4288.4	4288.4	4268.3	4328.6	4521.2	4874.7	5248.4	5351.9	5216.8	4854.6
25°	4590.2	4641.9	4610.3	4518.3	4495.3	4595.9	5001.2	5544.4	5682.4	5555.9	5193.8
27.5°	4929.3	4946.6	5001.2	4877.6	4719.5	4751.1	5139.2	5711.1	5995.7	5826.1	5386.4
30°	5418.0	5386.4	5374.9	5236.9	5029.9	4986.8	5297.2	5955.5	6406.7	6168.1	5613.4
32.5°	5748.5	5826.1	5823.2	5633.5	5383.5	5288.6	5492.7	6185.4	6846.5	6625.2	6033.1
35°	6403.8	6484.3	6421.1	6142.3	5849.1	5659.4	5774.4	6484.3	7349.5	7177.0	6389.5
37.5°	7240.2	7429.9	7294.9	6780.4	6366.5	6159.5	6165.3	6809.1	7864.0	7723.1	6771.7
40°	7818.0	8073.8	7887.0	7404.1	6964.3	6768.9	6691.3	7194.3	8479.0	8329.6	7369.6
42.5°	8533.7	8746.4	8648.6	8171.5	7657.0	7490.3	7335.1	7838.1	9418.9	9349.9	8137.0
45°	9315.5	9416.1	9384.4	9082.6	8510.7	8453.2	8111.1	8686.0	10525.5	10554.3	9097.0
47.5°	10042.6	10097.3	10157.6	9939.2	9582.8	9631.6	9005.0	9594.3	11600.5	11790.2	10166.2
50°	10229.5	10416.3	10557.1	10703.7	10781.3	11111.9	9990.9	10709.5	12836.4	13204.3	11356.2
52.5°	10039.8	10025.4	10453.7	10913.5	11689.6	12382.3	11333.2	12094.9	13928.6	14655.8	12445.5
55°	9177.5	9148.7	9838.6	10447.9	11962.6	13089.3	13250.3	13940.1	15247.9	16193.5	13920.0
57.5°	7668.5	7490.3	8243.4	9243.6	11370.5	13167.0	15176.1	16679.3	17277.1	18355.0	16170.5
60°	5153.5	5078.8	5800.2	6993.1	9232.1	12066.1	16328.6	20108.3	20137.0	21350.0	19662.8
62.5°	3173.2	3187.5	3650.3	4544.2	6464.2	9565.5	15831.4	22847.4	22853.2	24069.0	22537.0
65°	2075.2	2083.8	2457.5	2951.9	4038.3	6487.2	13092.2	23063.0	24741.6	25871.2	23853.4
66°	1848.1	1851.0	2172.9	2575.3	3345.6	5308.7	11563.1	22502.5	25167.0	26109.7	23836.2
67.5°	1557.8	1595.2	1853.9	2164.3	2609.8	3814.1	9174.6	20881.4	24948.5	25776.3	23295.8
70°	1218.7	1238.8	1442.9	1759.0	1957.4	2207.4	5452.5	17021.3	22835.9	24178.2	21329.8
72.5°	977.2	994.5	1149.7	1428.5	1589.5	1454.4	2969.1	12350.7	18038.8	19470.2	16777.0
75°	824.9	827.8	902.5	1123.8	1307.8	1092.2	1580.8	7927.2	11574.6	12241.4	10278.3
77.5°	666.8	678.3	730.1	856.5	1052.0	859.4	942.8	4440.7	5811.7	5860.6	4751.1
80°	543.2	549.0	580.6	623.7	801.9	635.2	638.1	2167.2	2492.0	2434.5	1931.5
82.5°	428.3	434.0	471.4	462.8	589.2	454.1	396.6	1043.4	1146.8	1123.8	888.1
85°	241.4	241.4	370.8	370.8	373.7	287.4	241.4	491.5	606.5	566.2	416.8
87.5°	77.6	80.5	112.1	117.8	186.8	129.3	117.8	184.0	287.4	252.9	149.5
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: P476502
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6	3299.6
2.5°	3368.6	3322.6	3302.5	3236.4	3219.2	3176.0	3155.9	3130.1	3121.4	3084.1	3118.6
5°	3394.5	3380.1	3299.6	3216.3	3153.1	3124.3	3081.2	3023.7	3018.0	2966.2	2960.5
7.5°	3503.7	3454.9	3314.0	3224.9	3098.4	3026.6	2931.7	2903.0	2865.6	2848.4	2885.8
10°	3673.3	3549.7	3339.9	3115.7	2960.5	2874.3	2805.3	2785.2	2788.0	2776.5	2759.3
12.5°	3794.0	3676.2	3296.8	3023.7	2822.5	2739.2	2733.4	2753.5	2785.2	2770.8	2790.9
15°	3966.5	3745.2	3265.2	2871.4	2710.4	2687.4	2684.6	2744.9	2742.0	2742.0	2739.2
17.5°	4127.4	3814.1	3150.2	2739.2	2592.6	2609.8	2629.9	2627.1	2655.8	2667.3	2687.4
20°	4331.5	3894.6	2989.2	2606.9	2503.5	2497.7	2494.9	2497.7	2526.5	2543.7	2529.3
22.5°	4509.7	3911.9	2854.1	2480.5	2397.1	2374.1	2336.8	2374.1	2359.8	2365.5	2382.8
25°	4664.9	3914.7	2661.6	2385.6	2290.8	2239.0	2210.3	2207.4	2181.6	2178.7	2178.7
27.5°	4794.3	3817.0	2492.0	2253.4	2164.3	2115.5	2112.6	2081.0	2014.9	1971.7	1977.5
30°	4894.9	3742.3	2374.1	2138.4	2052.2	2043.6	2017.7	1945.9	1859.6	1805.0	1805.0
32.5°	5073.1	3592.8	2213.2	2020.6	1977.5	1966.0	1905.6	1842.4	1761.9	1710.2	1701.6
35°	5205.3	3454.9	2106.8	1920.0	1899.9	1876.9	1825.2	1756.2	1733.2	1721.7	1730.3
37.5°	5354.7	3299.6	1977.5	1833.8	1853.9	1810.8	1750.4	1718.8	1799.3	1779.2	1787.8
40°	5593.3	3190.4	1851.0	1782.0	1802.2	1753.3	1675.7	1664.2	1764.8	1692.9	1675.7
42.5°	6030.2	3187.5	1773.4	1704.4	1718.8	1681.4	1612.5	1606.7	1646.9	1560.7	1534.9
45°	6573.4	3288.1	1715.9	1646.9	1635.4	1629.7	1606.7	1580.8	1546.3	1434.3	1405.5
47.5°	7223.0	3452.0	1704.4	1560.7	1575.1	1624.0	1595.2	1529.1	1440.0	1368.1	1353.8
50°	8010.5	3791.1	1675.7	1497.5	1523.4	1601.0	1578.0	1486.0	1405.5	1359.5	1350.9
52.5°	8881.4	4219.4	1638.3	1399.8	1457.2	1580.8	1592.3	1506.1	1388.3	1348.0	1342.3
55°	9907.6	4851.7	1595.2	1293.4	1379.6	1560.7	1592.3	1448.6	1365.3	1365.3	1359.5
57.5°	11933.9	5989.9	1506.1	1195.7	1310.7	1523.4	1546.3	1451.5	1368.1	1368.1	1356.6
60°	14905.9	7766.2	1336.5	1121.0	1244.6	1471.6	1511.9	1408.4	1336.5	1353.8	1350.9
62.5°	17231.1	8306.6	1192.8	1049.1	1178.4	1376.8	1465.9	1362.4	1299.2	1362.4	1368.1
65°	17728.4	7760.5	1046.2	971.5	1086.5	1284.8	1399.8	1296.3	1244.6	1368.1	1373.9
66°	17550.2	7335.1	994.5	948.5	1046.2	1238.8	1359.5	1273.3	1215.8	1362.4	1365.3
67.5°	16756.9	6697.0	937.0	899.6	991.6	1172.7	1313.5	1241.7	1169.8	1345.2	1319.3
70°	15032.3	5679.5	839.3	813.4	914.0	1063.5	1207.2	1161.2	1098.0	1238.8	1192.8
72.5°	11577.5	4538.4	735.8	738.7	824.9	951.4	1100.8	1069.2	1014.6	1086.5	1057.7
75°	7050.5	2900.1	641.0	646.7	718.6	845.0	1000.2	977.2	911.1	951.4	937.0
77.5°	3124.3	1437.1	540.4	551.9	609.3	744.4	870.9	833.5	764.6	773.2	767.4
80°	1212.9	681.2	439.8	454.1	491.5	595.0	721.4	686.9	626.6	615.1	609.3
82.5°	583.5	379.4	339.2	344.9	359.3	474.3	620.8	577.7	497.2	445.5	445.5
85°	293.2	235.7	238.6	218.4	238.6	321.9	419.6	350.7	290.3	258.7	264.4
87.5°	117.8	117.8	117.8	100.6	106.3	152.3	195.4	132.2	120.7	71.9	71.9
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)