

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: P477130

Luminaire Tested: **IFLD-L-SA7C-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477130
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

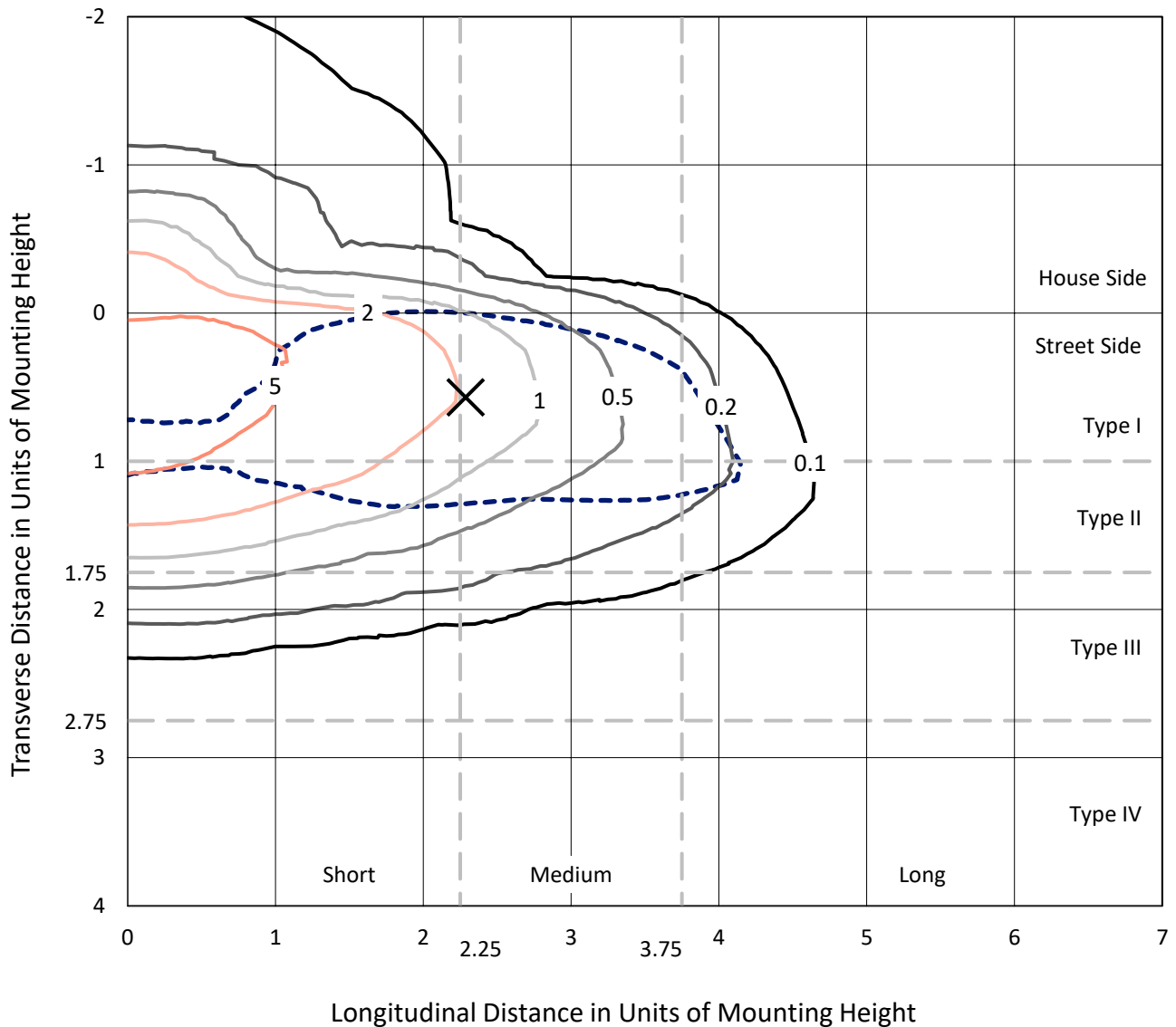
Lumens per Lamp: N/A
Luminaire Lumens: 32770.8 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
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: P477130
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

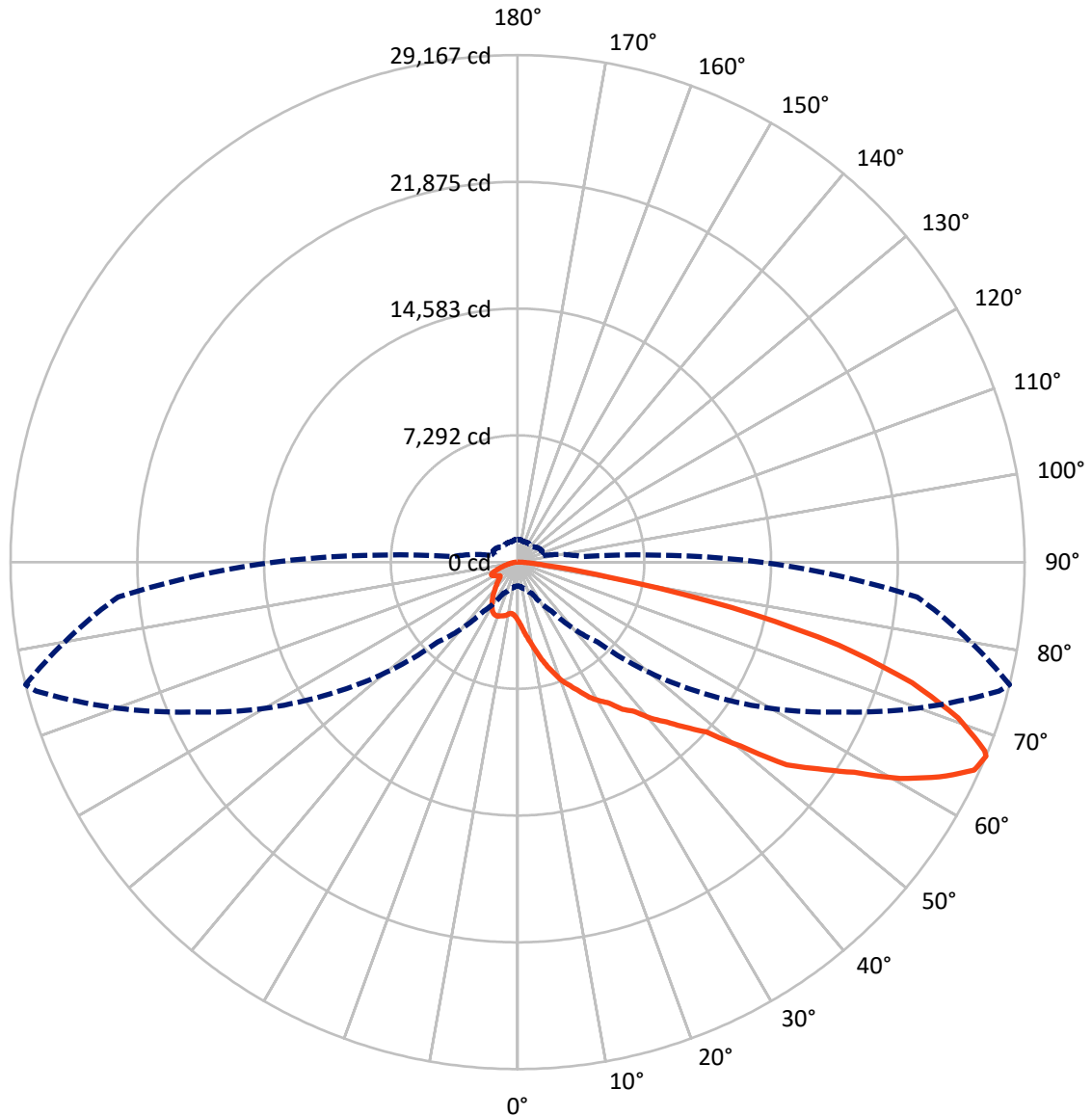
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P477130
CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477130
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R

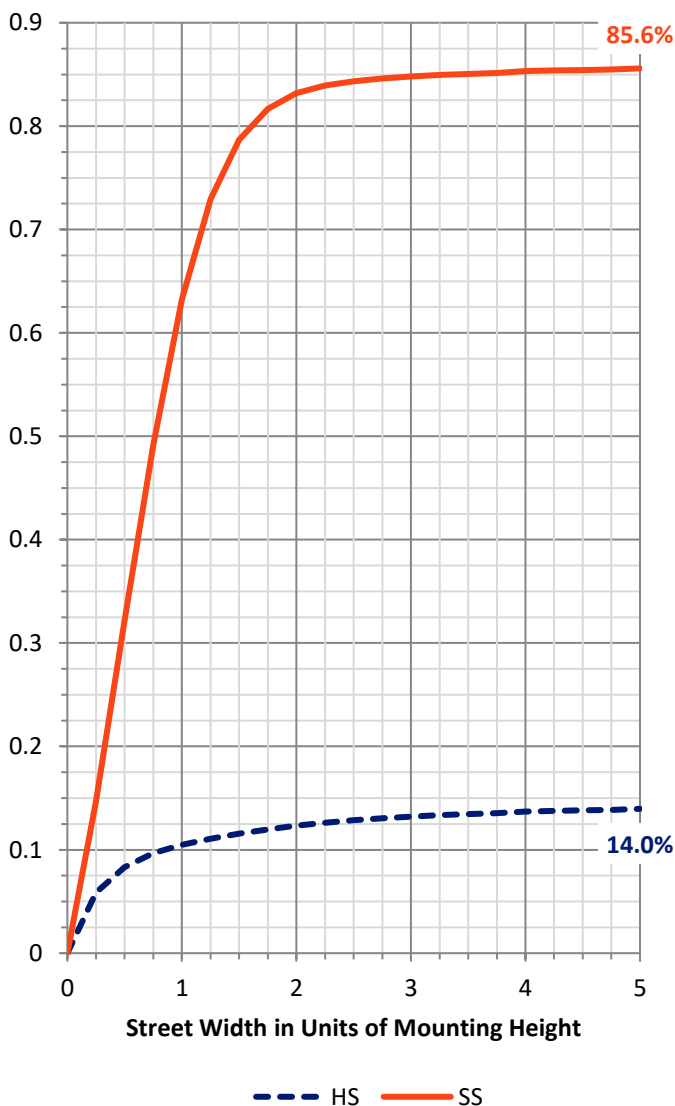
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4662.0	0.0	4662.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28108.7	0.0	28108.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	32770.8	0.0	32770.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	1.2
10°-20°	1456.9	4.4
20°-30°	2708.7	8.3
30°-40°	4293.8	13.1
40°-50°	5938.8	18.1
50°-60°	7305.0	22.3
60°-70°	6797.7	20.7
70°-80°	3411.0	10.4
80°-90°	470.3	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°	32770.8	100.0
0°-180°	32770.8	100.0

Coefficient of Utilization



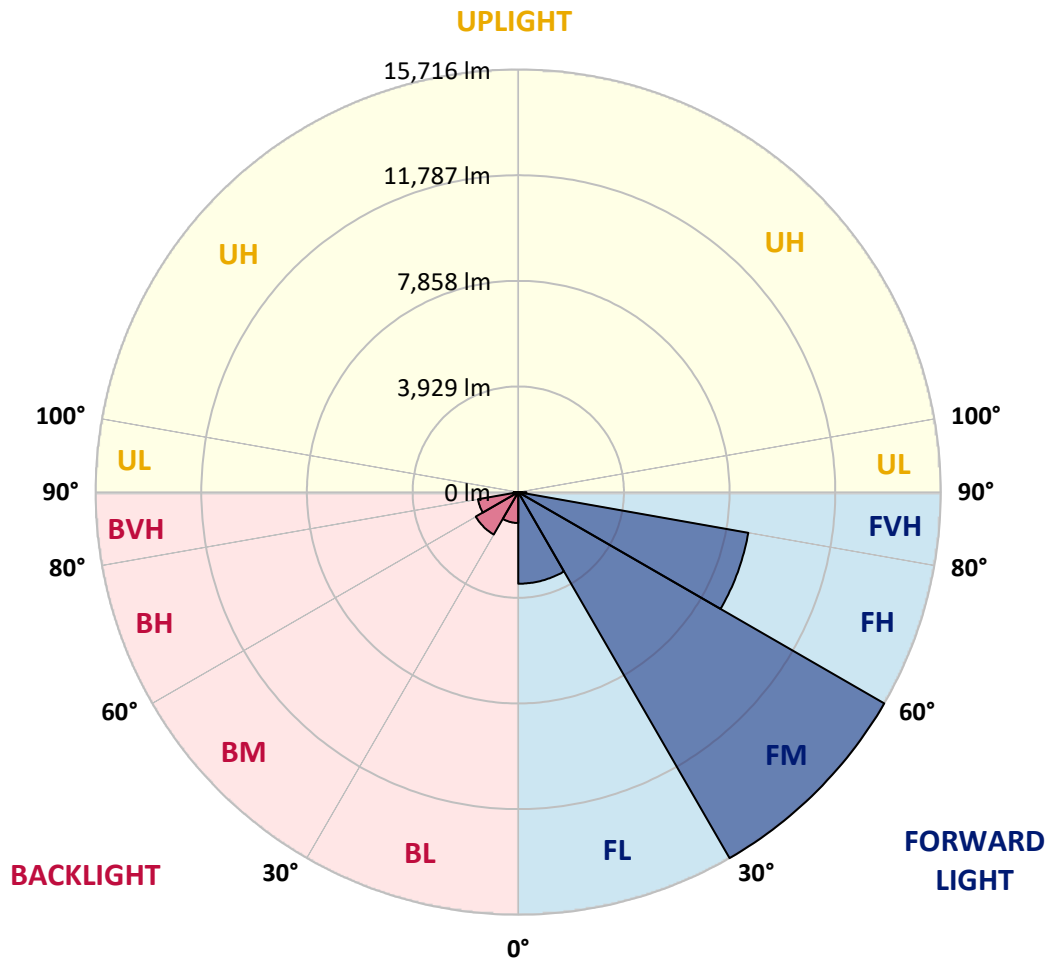
REPORT NUMBER: P477130
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3406.0	10.4			
FM (30°-60°)	15715.8	48.0			
FH (60°-80°)	8687.3	26.5			G4/12000
FVH (80°-90°)	299.7	0.9			G3/500
BL (0°-30°)	1148.1	3.5	B3/2500		
BM (30°-60°)	1821.8	5.6	B2/2500		
BH (60°-80°)	1521.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	170.7	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-G4

Type II Medium





REPORT NUMBER: P477130
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6
2.5°	4653.2	4597.2	4541.2	4421.7	4380.6	4268.5	4063.1	3835.3	3648.6	3622.5	3491.8
5°	5773.5	5691.4	5672.7	5605.5	5392.6	5176.0	4839.9	4473.9	4018.3	4051.9	3603.8
7.5°	6613.8	6565.3	6464.4	6400.9	6274.0	5986.4	5639.1	5153.6	4574.8	4462.7	3854.0
10°	7248.7	7181.5	7177.7	7121.7	7054.5	6759.5	6494.3	5840.8	5097.6	4944.5	4160.2
12.5°	7569.8	7558.6	7756.6	7756.6	7730.4	7607.2	7151.6	6554.1	5594.3	5542.0	4515.0
15°	7917.2	7823.8	7995.6	8126.3	8193.5	8257.0	7879.8	7248.7	6229.2	6128.3	4895.9
17.5°	7917.2	7909.7	8081.5	8298.1	8649.1	8731.3	8525.9	7887.3	6755.7	6681.0	5314.2
20°	7782.7	7891.0	8010.5	8301.8	8682.7	9015.1	9074.8	8540.8	7338.3	7278.6	5788.5
22.5°	8410.1	8305.5	8428.8	8540.8	8835.8	9340.0	9504.3	9115.9	7950.8	7723.0	6218.0
25°	9463.2	9392.3	9302.7	9138.3	9261.6	9481.9	9732.1	9541.7	8473.6	8219.6	6632.5
27.5°	10490.2	10494.0	10299.8	9941.3	9676.1	9720.9	10015.9	9915.1	8914.3	8802.2	6916.3
30°	11950.4	11860.8	11644.2	11158.7	10639.6	10213.9	10165.3	10262.4	9474.4	9257.8	7323.4
32.5°	13044.6	13063.3	12757.1	12058.7	11349.2	11001.9	10576.1	10617.2	9829.2	9668.6	7648.3
35°	13929.7	13907.3	13690.7	13111.9	12271.6	11853.3	11278.2	11042.9	10654.5	10400.6	8145.0
37.5°	14885.7	14702.8	14351.7	13698.2	13160.4	12581.6	12021.4	11491.1	11203.5	10897.3	8570.7
40°	15270.4	15270.4	14799.8	14501.1	13862.5	13425.5	13063.3	12081.1	11872.0	11812.2	9115.9
42.5°	14997.8	15165.8	14971.6	14631.8	14370.4	13817.7	13720.6	12693.6	12697.3	12577.8	9769.5
45°	14971.6	14740.1	14579.5	14665.4	14542.2	14512.3	14758.8	13541.3	13563.7	13548.8	10647.1
47.5°	14221.0	14116.4	14355.4	14497.4	14598.2	15061.3	15770.8	14553.4	14714.0	14601.9	11659.1
50°	13474.1	13455.4	13604.8	14120.2	14557.1	15318.9	16734.3	16114.4	16641.0	16633.5	13492.8
52.5°	11427.6	11625.5	12211.8	13302.3	14381.6	15670.0	17462.6	18108.6	19113.2	19385.8	15012.7
55°	9470.7	9366.1	10232.5	11816.0	13616.0	15808.2	18276.7	19307.4	20786.3	20984.2	16573.7
57.5°	7368.2	7562.4	8245.8	9765.7	12032.6	15124.7	18874.2	20491.2	22675.9	22829.0	18385.0
60°	5497.2	5523.3	6274.0	7498.9	9926.3	13582.4	19068.4	21704.9	24841.9	25278.9	20282.1
62.5°	3458.2	3615.0	4186.4	5392.6	7472.7	11423.9	18198.2	22440.6	27112.5	27228.3	22194.2
65°	1863.5	1964.4	2393.8	3151.9	5220.8	8641.6	15890.3	22000.0	28180.6	28867.7	23045.6
67°	1378.0	1396.7	1594.6	2012.9	3491.8	6505.5	13250.0	20405.3	28666.1	29166.5	23079.2
67.5°	1292.1	1318.3	1475.1	1807.5	3095.9	5990.1	12559.1	19837.7	28449.5	28987.2	22817.8
70°	1105.4	1112.9	1150.2	1243.6	1736.5	3603.8	8552.0	16256.3	26369.3	26884.7	20984.2
72.5°	982.2	989.6	1004.6	1023.3	1176.4	2083.9	5202.2	12510.6	22918.7	23740.3	18104.9
75°	862.7	888.8	896.3	881.3	1000.8	1355.6	2767.3	9194.4	18694.9	19094.5	14079.1
77.5°	732.0	743.2	758.1	773.0	892.5	1012.1	1329.5	6206.7	12831.8	12589.0	7614.7
80°	616.2	619.9	631.1	642.3	773.0	773.0	754.4	3353.6	5605.5	5359.0	2573.1
82.5°	440.7	466.8	493.0	522.8	642.3	519.1	493.0	1493.8	1773.9	1688.0	870.1
85°	171.8	209.1	324.9	358.5	407.1	280.1	328.6	646.1	739.4	732.0	324.9
87.5°	29.9	33.6	89.6	138.2	149.4	97.1	156.8	231.5	276.4	298.8	119.5
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: P477130
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6	3353.6
2.5°	3383.5	3267.7	3129.5	2991.3	2901.7	2759.8	2748.6	2662.7	2651.5	2621.6	2636.6
5°	3409.6	3271.4	2991.3	2771.0	2670.2	2588.0	2606.7	2569.3	2558.1	2539.5	2509.6
7.5°	3615.0	3342.4	2924.1	2733.7	2659.0	2621.6	2621.6	2576.8	2543.2	2565.6	2588.0
10°	3749.4	3376.0	2976.4	2785.9	2726.2	2644.0	2673.9	2617.9	2636.6	2591.7	2591.7
12.5°	3966.0	3566.5	3084.7	2864.4	2767.3	2692.6	2722.5	2659.0	2644.0	2647.8	2636.6
15°	4257.3	3693.4	3133.3	2909.2	2842.0	2748.6	2726.2	2670.2	2614.2	2595.5	2617.9
17.5°	4530.0	3850.3	3166.9	2935.3	2827.0	2722.5	2696.3	2625.4	2606.7	2550.7	2505.9
20°	4854.9	4037.0	3211.7	2957.7	2771.0	2666.4	2599.2	2528.3	2464.8	2431.2	2446.1
22.5°	5071.5	4134.1	3234.1	2912.9	2688.8	2591.7	2449.8	2401.3	2311.7	2274.3	2244.4
25°	5426.2	4253.6	3178.1	2789.7	2543.2	2386.3	2259.4	2192.2	2128.7	2080.1	2065.2
27.5°	5515.9	4343.2	3047.4	2580.5	2311.7	2147.3	2039.0	1956.9	1915.8	1841.1	1826.2
30°	5777.3	4253.6	2853.2	2326.6	2091.3	1923.3	1815.0	1755.2	1658.1	1639.4	1598.4
32.5°	5945.3	4279.7	2606.7	2080.1	1837.4	1688.0	1617.0	1557.3	1531.1	1441.5	1419.1
35°	6225.4	4190.1	2356.5	1852.3	1628.2	1512.5	1452.7	1434.1	1348.2	1307.1	1269.7
37.5°	6404.7	4137.8	2106.3	1594.6	1400.4	1351.9	1370.6	1292.1	1187.6	1109.1	1083.0
40°	6718.4	4119.2	1822.4	1381.8	1243.6	1232.4	1292.1	1142.8	952.3	885.1	847.7
42.5°	7170.3	3992.2	1602.1	1191.3	1120.4	1168.9	1180.1	952.3	844.0	788.0	761.8
45°	7603.5	4018.3	1385.5	985.9	974.7	1045.7	1019.5	806.7	743.2	702.1	724.5
47.5°	8436.2	4149.0	1172.6	821.6	877.6	944.8	791.7	720.8	661.0	631.1	634.9
50°	9724.7	4276.0	985.9	750.6	829.1	855.2	679.7	653.5	649.8	590.1	586.3
52.5°	10497.7	4227.5	952.3	840.3	888.8	855.2	739.4	720.8	690.9	664.7	634.9
55°	11726.3	4369.4	1023.3	982.2	1008.3	821.6	829.1	821.6	799.2	732.0	750.6
57.5°	12704.8	4462.7	1116.6	1097.9	1083.0	855.2	866.4	870.1	855.2	825.3	851.5
60°	14049.2	4649.5	1213.7	1217.4	1221.2	929.9	948.6	971.0	967.2	956.0	963.5
62.5°	14874.5	4563.6	1322.0	1381.8	1363.1	1083.0	1079.3	1094.2	1094.2	1112.9	1124.1
65°	14751.3	4246.1	1378.0	1527.4	1430.3	1195.0	1195.0	1202.5	1206.2	1243.6	1247.3
67°	14011.9	3678.5	1348.2	1549.8	1430.3	1239.9	1239.9	1247.3	1221.2	1318.3	1288.4
67.5°	13668.3	3510.4	1322.0	1531.1	1419.1	1236.1	1236.1	1239.9	1217.4	1310.8	1280.9
70°	11886.9	2606.7	1139.0	1355.6	1314.5	1202.5	1202.5	1180.1	1161.4	1284.7	1258.5
72.5°	10146.7	1893.4	915.0	1154.0	1187.6	1157.7	1165.2	1109.1	1056.9	1142.8	1120.4
75°	7771.5	1393.0	713.3	888.8	1004.6	1083.0	1131.6	989.6	922.4	944.8	903.8
77.5°	4335.8	907.5	563.9	657.3	765.6	1008.3	1086.7	892.5	754.4	728.2	728.2
80°	1471.4	530.3	414.5	489.2	526.6	892.5	1015.8	724.5	593.8	567.6	549.0
82.5°	556.4	324.9	283.8	336.1	336.1	705.8	829.1	556.4	448.1	578.8	590.1
85°	253.9	194.2	186.7	194.2	194.2	433.2	586.3	362.2	403.3	347.3	306.2
87.5°	100.8	93.4	85.9	82.2	67.2	74.7	201.7	97.1	183.0	48.5	44.8
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)