

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: P476901

Luminaire Tested: **IFLD-L-SA8C-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476901
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

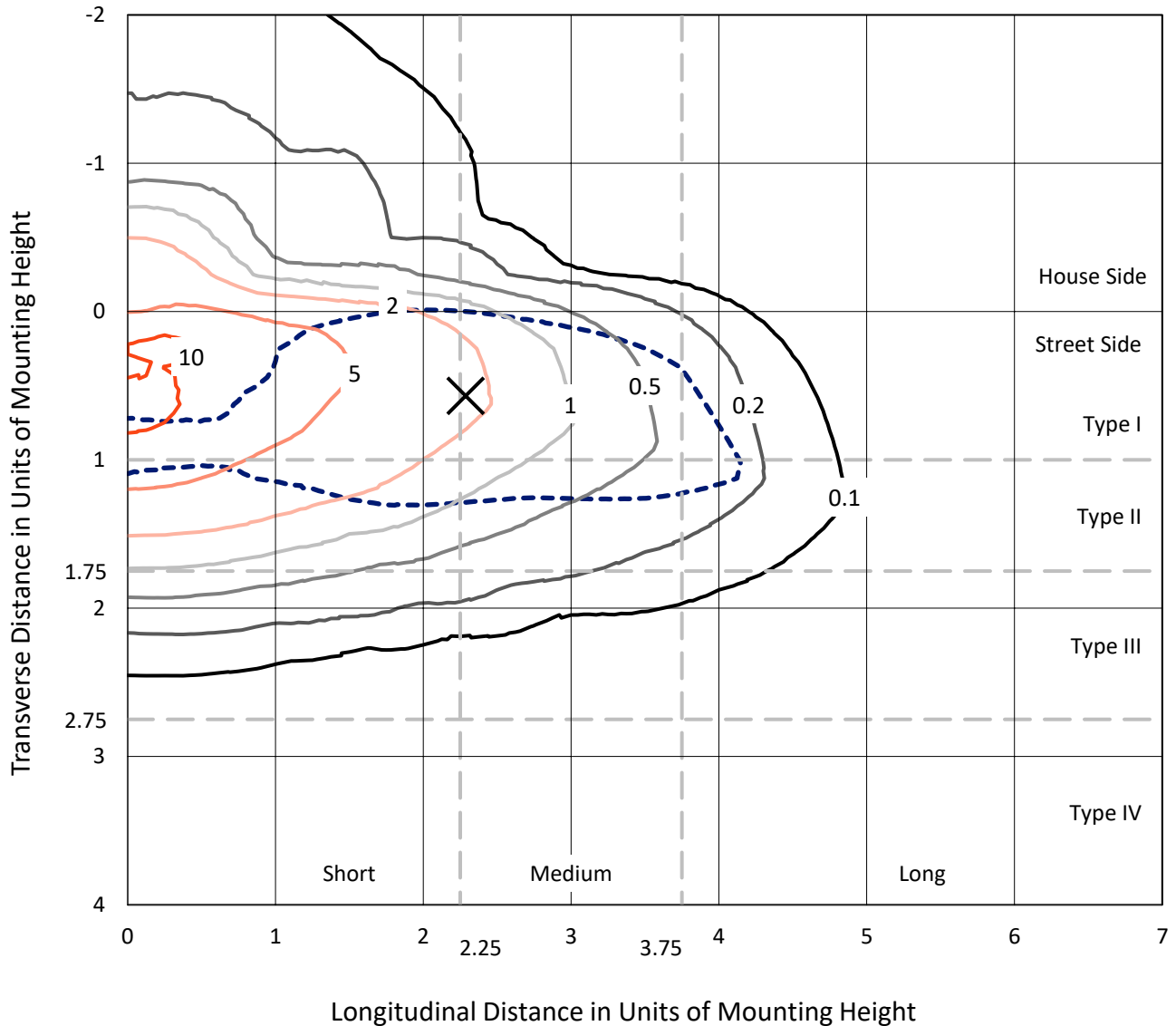
Lumens per Lamp: N/A
Luminaire Lumens: 42608.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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

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Iso-Footcandle Lines of Horizontal Illumination

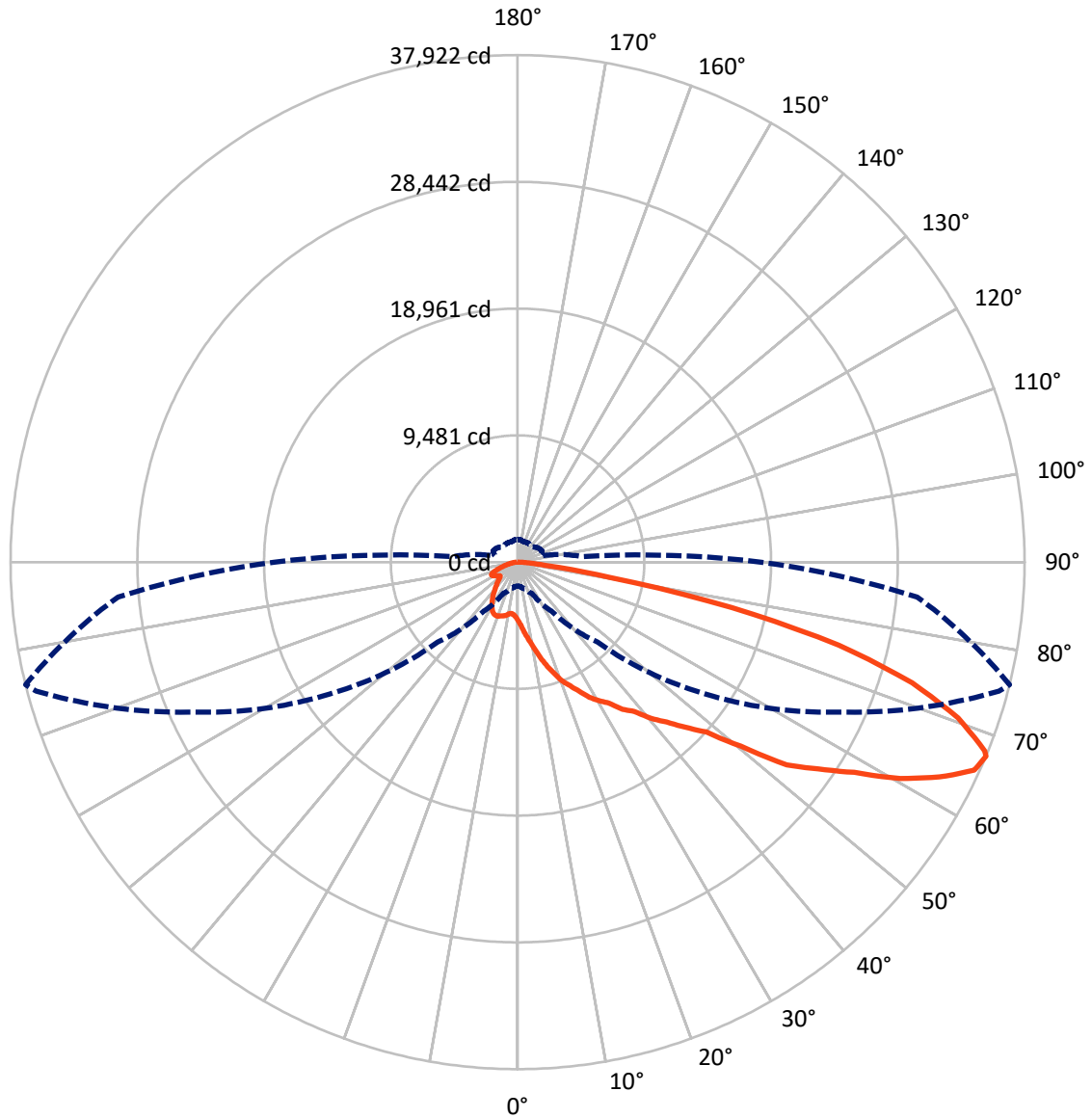
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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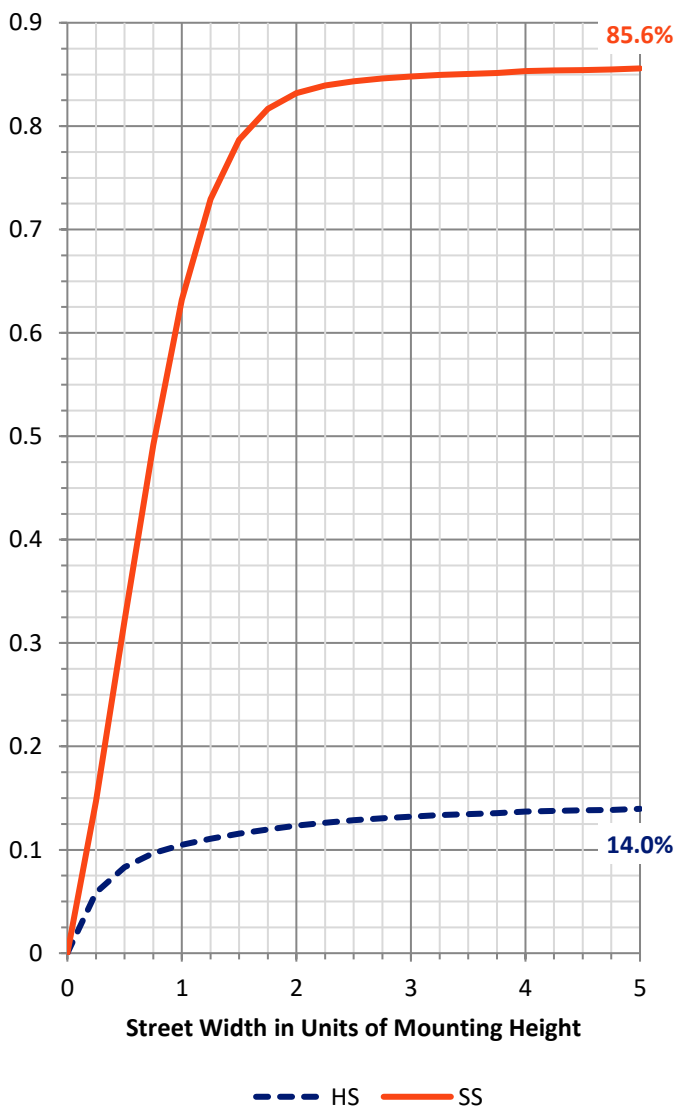
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6061.6	0.0	6061.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	36546.8	0.0	36546.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	42608.4	0.0	42608.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.1	1.2
10°-20°	1894.3	4.4
20°-30°	3521.8	8.3
30°-40°	5582.8	13.1
40°-50°	7721.5	18.1
50°-60°	9498.0	22.3
60°-70°	8838.3	20.7
70°-80°	4435.0	10.4
80°-90°	611.5	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°	42608.4	100.0
0°-180°	42608.4	100.0

Coefficient of Utilization



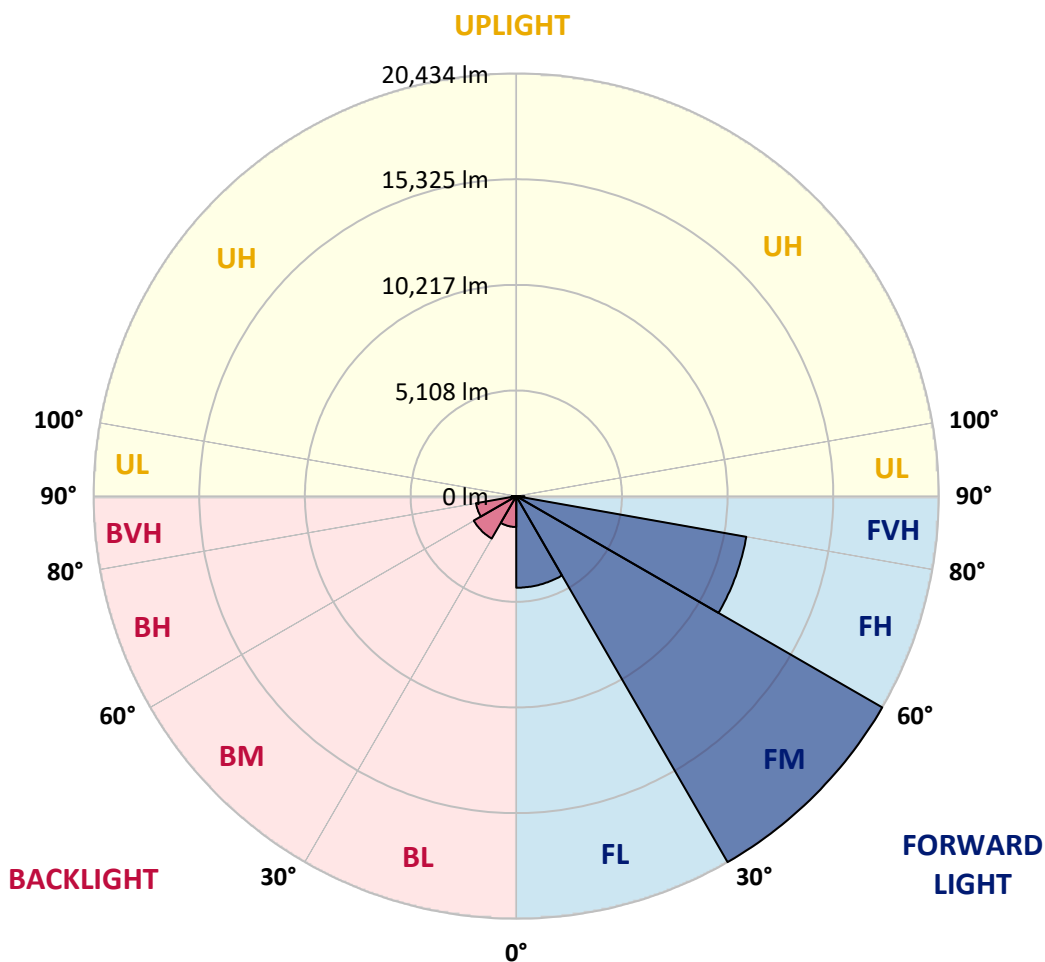
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4428.5	10.4			
FM (30°-60°)	20433.6	48.0			
FH (60°-80°)	11295.1	26.5			G4/12000
FVH (80°-90°)	389.6	0.9			G3/500
BL (0°-30°)	1492.7	3.5	B3/2500		
BM (30°-60°)	2368.7	5.6	B2/2500		
BH (60°-80°)	1978.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	221.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3
2.5°	6050.1	5977.2	5904.4	5749.0	5695.6	5549.9	5282.9	4986.7	4743.9	4709.9	4540.0
5°	7506.7	7399.9	7375.6	7288.2	7011.5	6729.8	6292.8	5817.0	5224.6	5268.3	4685.6
7.5°	8599.2	8536.1	8405.0	8322.5	8157.4	7783.5	7331.9	6700.7	5948.1	5802.4	5011.0
10°	9424.7	9337.3	9332.4	9259.6	9172.2	8788.6	8443.9	7594.1	6627.9	6428.8	5409.1
12.5°	9842.3	9827.7	10085.1	10085.1	10051.1	9890.8	9298.5	8521.6	7273.7	7205.7	5870.4
15°	10293.9	10172.5	10395.8	10565.8	10653.2	10735.7	10245.3	9424.7	8099.1	7968.0	6365.7
17.5°	10293.9	10284.1	10507.5	10789.1	11245.5	11352.4	11085.3	10255.0	8783.8	8686.6	6909.5
20°	10119.0	10259.9	10415.2	10794.0	11289.2	11721.4	11799.1	11104.7	9541.2	9463.5	7526.2
22.5°	10934.8	10798.8	10959.1	11104.7	11488.3	12143.8	12357.5	11852.5	10337.6	10041.4	8084.6
25°	12304.1	12211.8	12095.3	11881.6	12041.9	12328.3	12653.7	12406.0	11017.3	10687.2	8623.5
27.5°	13639.4	13644.2	13391.7	12925.6	12580.8	12639.1	13022.7	12891.6	11590.3	11444.6	8992.6
30°	15537.9	15421.4	15139.7	14508.5	13833.6	13280.0	13216.9	13343.2	12318.6	12037.0	9521.8
32.5°	16960.6	16984.9	16586.7	15678.7	14756.1	14304.6	13751.0	13804.4	12779.9	12571.1	9944.2
35°	18111.3	18082.2	17800.6	17048.0	15955.5	15411.6	14663.9	14358.0	13853.0	13522.8	10590.0
37.5°	19354.4	19116.5	18660.0	17810.3	17111.1	16358.5	15630.1	14940.6	14566.8	14168.6	11143.6
40°	19854.5	19854.5	19242.7	18854.3	18023.9	17455.8	16984.9	15707.8	15435.9	15358.2	11852.5
42.5°	19500.0	19718.5	19466.1	19024.2	18684.3	17965.7	17839.4	16504.1	16509.0	16353.6	12702.2
45°	19466.1	19165.0	18956.2	19067.9	18907.7	18868.8	19189.3	17606.4	17635.5	17616.1	13843.3
47.5°	18490.1	18354.1	18664.9	18849.4	18980.5	19582.6	20505.2	18922.2	19131.0	18985.4	15159.2
50°	17519.0	17494.7	17688.9	18359.0	18927.1	19917.6	21757.9	20951.9	21636.5	21626.8	17543.2
52.5°	14858.1	15115.5	15877.8	17295.6	18698.9	20374.1	22704.7	23544.8	24850.9	25205.4	19519.5
55°	12313.8	12177.8	13304.3	15363.1	17703.5	20553.7	23763.3	25103.4	27026.2	27283.6	21549.1
57.5°	9580.1	9832.6	10721.1	12697.4	15644.7	19665.1	24540.2	26642.6	29483.1	29682.2	23904.1
60°	7147.4	7181.4	8157.4	9750.0	12906.2	17659.8	24792.6	28220.7	32299.4	32867.5	26370.7
62.5°	4496.3	4700.2	5443.1	7011.5	9716.0	14853.2	23661.3	29177.2	35251.6	35402.1	28856.8
65°	2422.9	2554.0	3112.4	4098.1	6788.1	11235.8	20660.5	28604.3	36640.3	37533.7	29963.8
67°	1791.7	1816.0	2073.3	2617.2	4540.0	8458.4	17227.6	26530.9	37271.5	37922.2	30007.5
67.5°	1680.0	1714.0	1918.0	2350.1	4025.3	7788.4	16329.3	25792.9	36989.9	37689.1	29667.7
70°	1437.3	1447.0	1495.5	1616.9	2257.8	4685.6	11119.3	21136.4	34285.3	34955.4	27283.6
72.5°	1277.0	1286.7	1306.2	1330.4	1529.5	2709.4	6763.8	16266.2	29798.8	30867.0	23539.9
75°	1121.6	1155.6	1165.3	1145.9	1301.3	1762.6	3598.0	11954.5	24307.1	24826.6	18305.6
77.5°	951.7	966.3	985.7	1005.1	1160.5	1315.9	1728.6	8070.0	16683.8	16368.2	9900.5
80°	801.2	806.0	820.6	835.2	1005.1	1005.1	980.8	4360.3	7288.2	6967.8	3345.5
82.5°	573.0	606.9	640.9	679.8	835.2	674.9	640.9	1942.2	2306.4	2194.7	1131.4
85°	223.4	271.9	422.4	466.1	529.3	364.2	427.3	840.0	961.4	951.7	422.4
87.5°	38.8	43.7	116.5	179.7	194.2	126.2	203.9	301.0	359.3	388.4	155.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3	4360.3
2.5°	4399.2	4248.6	4069.0	3889.3	3772.8	3588.3	3573.7	3462.0	3447.5	3408.6	3428.0
5°	4433.2	4253.5	3889.3	3602.8	3471.7	3364.9	3389.2	3340.6	3326.1	3301.8	3263.0
7.5°	4700.2	4345.8	3801.9	3554.3	3457.2	3408.6	3408.6	3350.4	3306.7	3335.8	3364.9
10°	4875.0	4389.5	3869.9	3622.3	3544.6	3437.8	3476.6	3403.8	3428.0	3369.8	3369.8
12.5°	5156.6	4637.1	4010.7	3724.2	3598.0	3500.9	3539.7	3457.2	3437.8	3442.6	3428.0
15°	5535.4	4802.2	4073.8	3782.5	3695.1	3573.7	3544.6	3471.7	3398.9	3374.6	3403.8
17.5°	5889.8	5006.1	4117.5	3816.5	3675.7	3539.7	3505.7	3413.5	3389.2	3316.4	3258.1
20°	6312.3	5248.9	4175.8	3845.6	3602.8	3466.9	3379.5	3287.2	3204.7	3161.0	3180.4
22.5°	6593.9	5375.1	4204.9	3787.4	3496.0	3369.8	3185.3	3122.1	3005.6	2957.1	2918.2
25°	7055.2	5530.5	4132.1	3627.1	3306.7	3102.7	2937.6	2850.2	2767.7	2704.6	2685.1
27.5°	7171.7	5647.1	3962.2	3355.2	3005.6	2792.0	2651.2	2544.3	2490.9	2393.8	2374.4
30°	7511.6	5530.5	3709.7	3025.0	2719.1	2500.6	2359.8	2282.1	2155.9	2131.6	2078.2
32.5°	7730.1	5564.5	3389.2	2704.6	2389.0	2194.7	2102.5	2024.8	1990.8	1874.3	1845.1
35°	8094.3	5448.0	3063.9	2408.4	2117.0	1966.5	1888.8	1864.5	1752.9	1699.5	1650.9
37.5°	8327.3	5380.0	2738.6	2073.3	1820.8	1757.7	1782.0	1680.0	1544.1	1442.1	1408.1
40°	8735.2	5355.7	2369.5	1796.6	1616.9	1602.3	1680.0	1485.8	1238.2	1150.8	1102.2
42.5°	9322.7	5190.6	2083.0	1548.9	1456.7	1519.8	1534.4	1238.2	1097.4	1024.5	990.5
45°	9886.0	5224.6	1801.4	1281.9	1267.3	1359.6	1325.6	1048.8	966.3	912.9	942.0
47.5°	10968.8	5394.6	1524.7	1068.2	1141.1	1228.5	1029.4	937.1	859.4	820.6	825.5
50°	12644.0	5559.7	1281.9	976.0	1077.9	1111.9	883.7	849.7	844.9	767.2	762.3
52.5°	13649.1	5496.5	1238.2	1092.5	1155.6	1111.9	961.4	937.1	898.3	864.3	825.5
55°	15246.6	5681.0	1330.4	1277.0	1311.0	1068.2	1077.9	1068.2	1039.1	951.7	976.0
57.5°	16518.7	5802.4	1451.8	1427.5	1408.1	1111.9	1126.5	1131.4	1111.9	1073.1	1107.1
60°	18266.7	6045.2	1578.1	1582.9	1587.8	1209.0	1233.3	1262.5	1257.6	1243.0	1252.7
62.5°	19339.8	5933.5	1718.9	1796.6	1772.3	1408.1	1403.3	1422.7	1422.7	1447.0	1461.5
65°	19179.6	5520.8	1791.7	1985.9	1859.7	1553.8	1553.8	1563.5	1568.4	1616.9	1621.8
67°	18218.2	4782.8	1752.9	2015.1	1859.7	1612.1	1612.1	1621.8	1587.8	1714.0	1675.2
67.5°	17771.5	4564.3	1718.9	1990.8	1845.1	1607.2	1607.2	1612.1	1582.9	1704.3	1665.5
70°	15455.3	3389.2	1481.0	1762.6	1709.2	1563.5	1563.5	1534.4	1510.1	1670.3	1636.3
72.5°	13192.6	2461.8	1189.6	1500.4	1544.1	1505.2	1514.9	1442.1	1374.1	1485.8	1456.7
75°	10104.5	1811.1	927.4	1155.6	1306.2	1408.1	1471.2	1286.7	1199.3	1228.5	1175.1
77.5°	5637.3	1179.9	733.2	854.6	995.4	1311.0	1413.0	1160.5	980.8	946.8	946.8
80°	1913.1	689.5	539.0	636.1	684.6	1160.5	1320.7	942.0	772.0	738.0	713.8
82.5°	723.5	422.4	369.0	437.0	437.0	917.7	1077.9	723.5	582.7	752.6	767.2
85°	330.2	252.5	242.8	252.5	252.5	563.2	762.3	471.0	524.4	451.6	398.2
87.5°	131.1	121.4	111.7	106.8	87.4	97.1	262.2	126.2	237.9	63.1	58.3
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)