

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: P476938

Luminaire Tested: **IFLD-L-SA8A-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476938
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

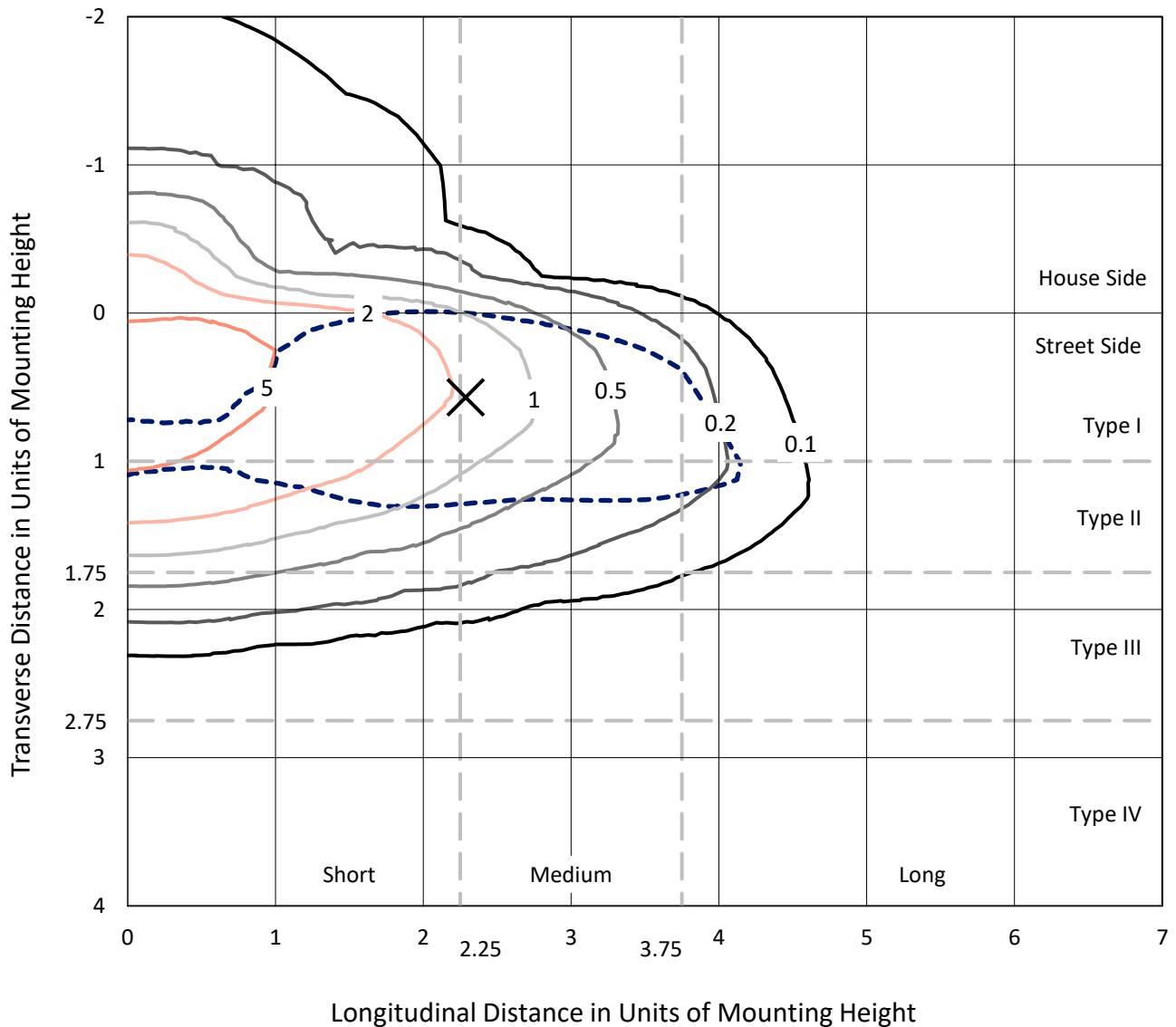
Lumens per Lamp: N/A
Luminaire Lumens: 31369 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

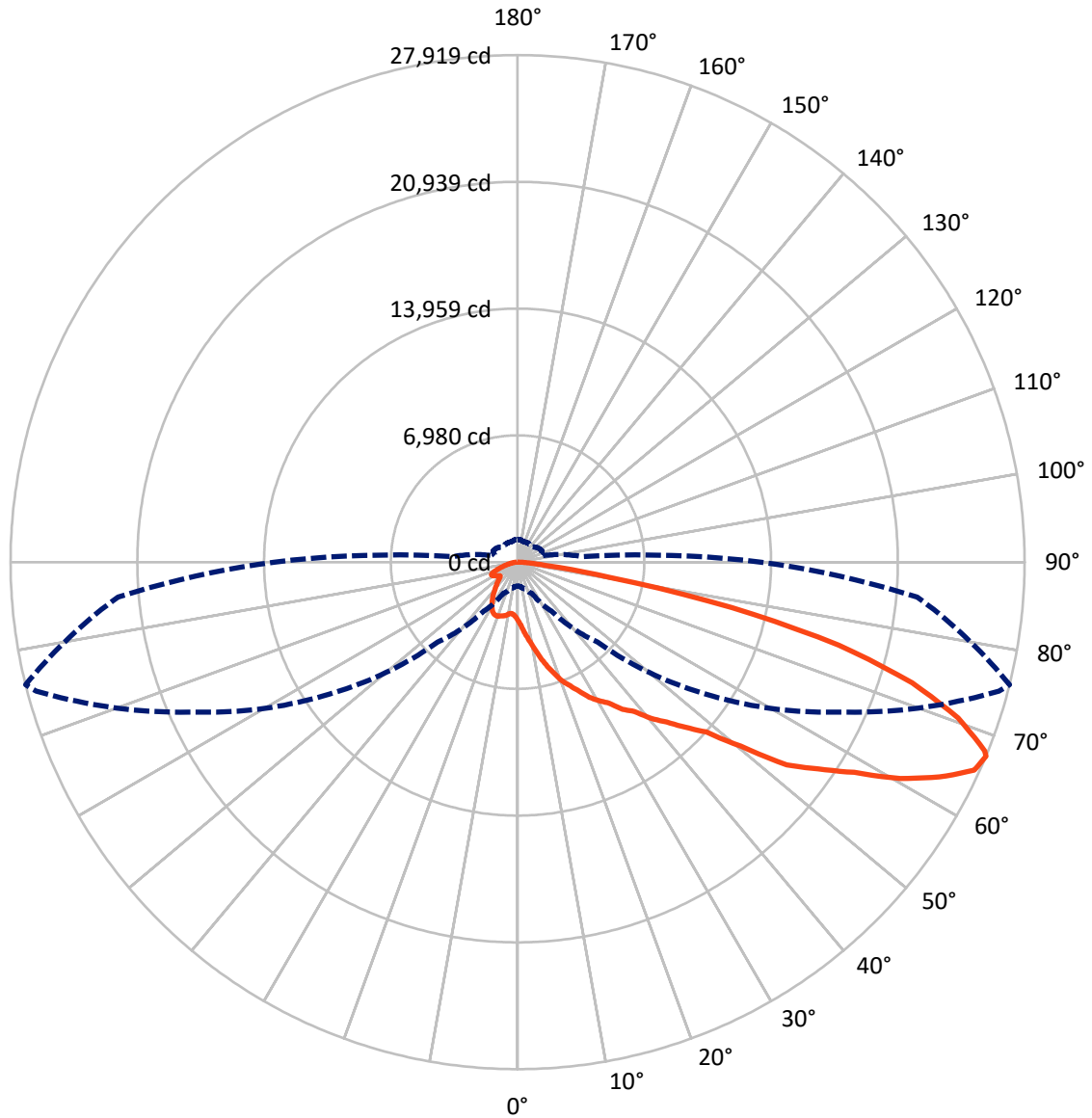
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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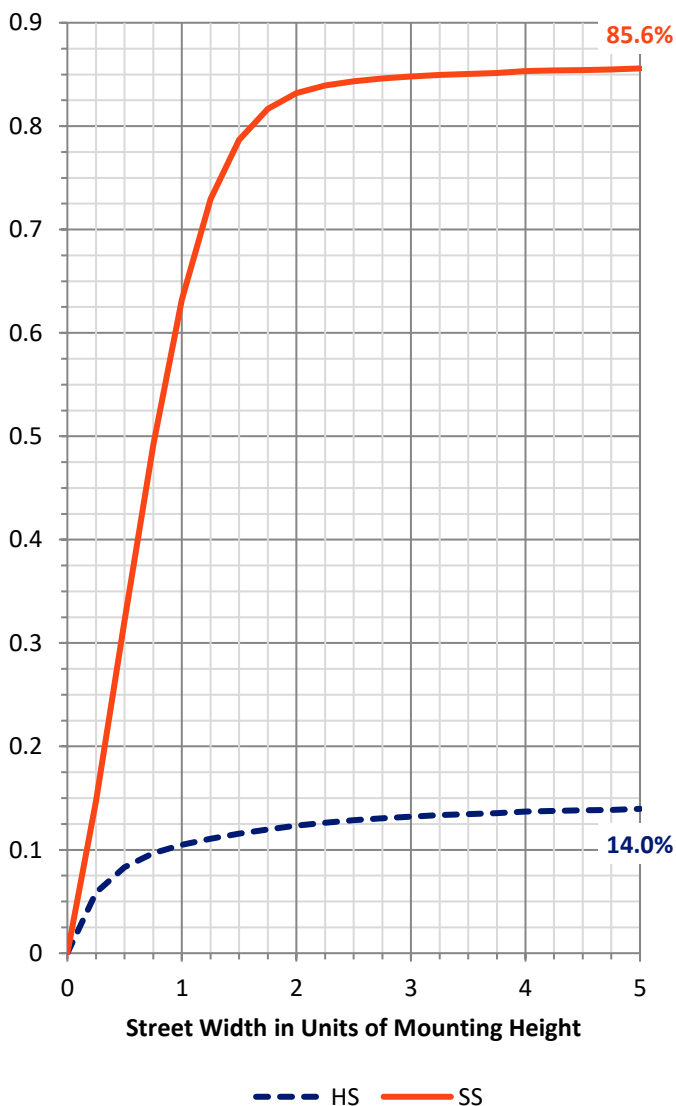
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4462.6	0.0	4462.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26906.4	0.0	26906.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	31369.0	0.0	31369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	1.2
10°-20°	1394.6	4.4
20°-30°	2592.8	8.3
30°-40°	4110.2	13.1
40°-50°	5684.7	18.1
50°-60°	6992.6	22.3
60°-70°	6506.9	20.7
70°-80°	3265.1	10.4
80°-90°	450.2	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°	31369.0	100.0
0°-180°	31369.0	100.0

Coefficient of Utilization



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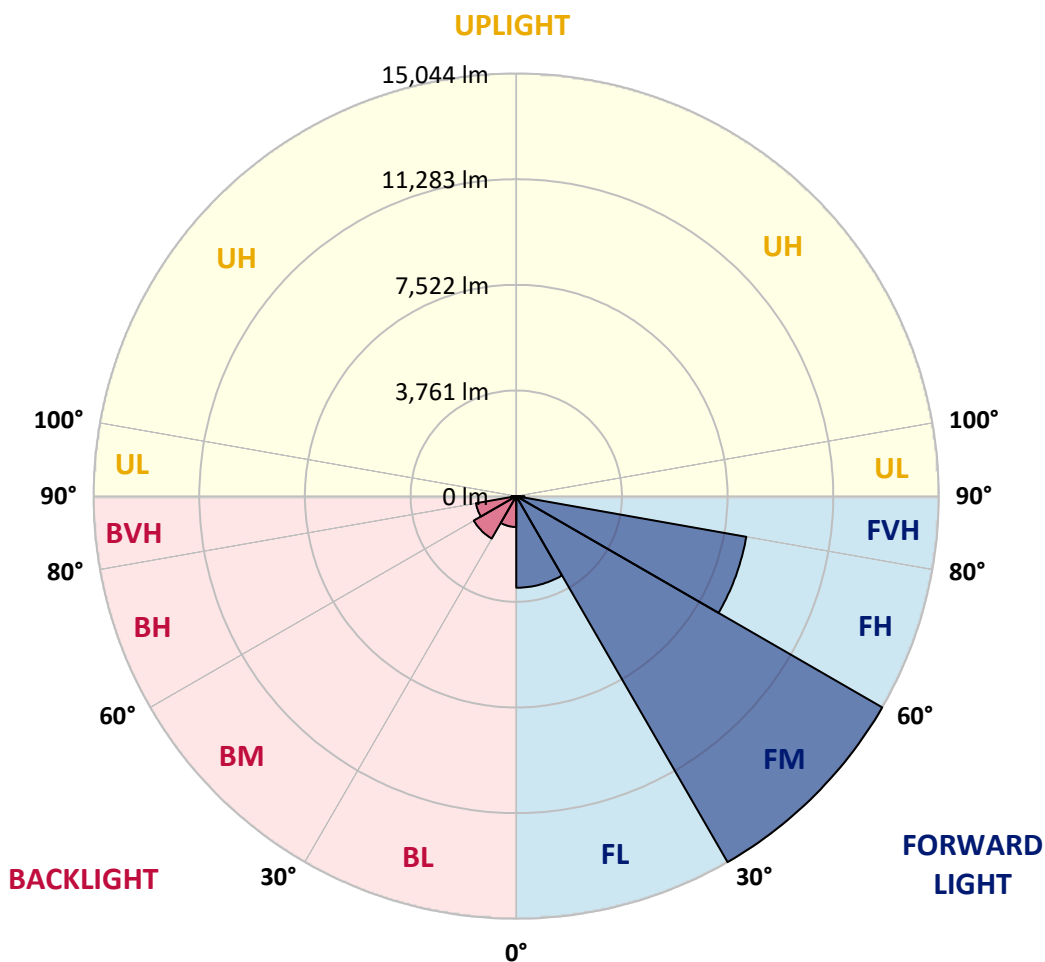
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3260.3	10.4			
FM (30°-60°)	15043.6	48.0			
FH (60°-80°)	8315.7	26.5			G4/12000
FVH (80°-90°)	286.8	0.9			G3/500
BL (0°-30°)	1099.0	3.5	B3/2500		
BM (30°-60°)	1743.9	5.6	B2/2500		
BH (60°-80°)	1456.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	163.4	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°	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1
2.5°	4454.2	4400.5	4346.9	4232.5	4193.2	4086.0	3889.3	3671.3	3492.5	3467.5	3342.4
5°	5526.6	5447.9	5430.1	5365.7	5162.0	4954.6	4632.9	4282.6	3846.5	3878.6	3449.7
7.5°	6330.9	6284.4	6187.9	6127.2	6005.6	5730.4	5397.9	4933.2	4379.1	4271.8	3689.2
10°	6938.6	6874.3	6870.7	6817.1	6752.7	6470.3	6216.5	5590.9	4879.6	4733.0	3982.3
12.5°	7246.1	7235.3	7424.8	7424.8	7399.8	7281.8	6845.7	6273.7	5355.0	5305.0	4321.9
15°	7578.5	7489.1	7653.6	7778.7	7843.0	7903.8	7542.8	6938.6	5962.7	5866.2	4686.5
17.5°	7578.5	7571.4	7735.8	7943.1	8279.2	8357.8	8161.2	7549.9	6466.8	6395.3	5086.9
20°	7449.8	7553.5	7667.9	7946.7	8311.3	8629.5	8686.7	8175.5	7024.4	6967.2	5540.9
22.5°	8050.4	7950.3	8068.3	8175.5	8457.9	8940.5	9097.8	8726.0	7610.7	7392.6	5952.0
25°	9058.5	8990.5	8904.7	8747.5	8865.4	9076.3	9315.8	9133.5	8111.2	7868.1	6348.8
27.5°	10041.5	10045.1	9859.2	9516.0	9262.2	9305.1	9587.5	9491.0	8533.0	8425.7	6620.5
30°	11439.3	11353.5	11146.1	10681.4	10184.5	9777.0	9730.5	9823.5	9069.2	8861.9	7010.1
32.5°	12486.7	12504.5	12211.4	11542.9	10863.7	10531.3	10123.7	10163.1	9408.8	9255.1	7321.1
35°	13333.9	13312.4	13105.1	12551.0	11746.7	11346.3	10795.8	10570.6	10198.8	9955.7	7796.6
37.5°	14249.0	14073.9	13737.8	13112.3	12597.5	12043.4	11507.2	10999.6	10724.3	10431.2	8204.1
40°	14617.2	14617.2	14166.8	13880.8	13269.5	12851.3	12504.5	11564.4	11364.2	11307.0	8726.0
42.5°	14356.3	14517.1	14331.2	14005.9	13755.7	13226.6	13133.7	12150.6	12154.2	12039.8	9351.6
45°	14331.2	14109.6	13955.9	14038.1	13920.1	13891.6	14127.5	12962.1	12983.6	12969.3	10191.7
47.5°	13612.7	13512.6	13741.4	13877.3	13973.8	14417.0	15096.2	13930.9	14084.6	13977.3	11160.4
50°	12897.8	12879.9	13022.9	13516.2	13934.4	14663.7	16018.5	15425.1	15929.2	15922.0	12915.6
52.5°	10938.8	11128.3	11689.5	12733.3	13766.4	14999.7	16715.6	17334.1	18295.7	18556.6	14370.6
55°	9065.6	8965.5	9794.9	11310.6	13033.6	15132.0	17494.9	18481.6	19897.2	20086.6	15864.8
57.5°	7053.0	7238.9	7893.1	9348.0	11517.9	14477.8	18066.9	19614.8	21706.0	21852.6	17598.6
60°	5262.1	5287.1	6005.6	7178.1	9501.7	13001.4	18252.8	20776.6	23779.4	24197.6	19414.6
62.5°	3310.2	3460.4	4007.3	5162.0	7153.1	10935.2	17419.8	21480.8	25952.8	26063.6	21244.9
65°	1783.8	1880.3	2291.4	3017.1	4997.5	8272.0	15210.6	21059.0	26975.2	27633.0	22059.9
67°	1319.1	1337.0	1526.4	1926.8	3342.4	6227.2	12683.3	19532.5	27439.9	27918.9	22092.1
67.5°	1236.9	1261.9	1412.0	1730.2	2963.5	5733.9	12021.9	18989.2	27232.6	27747.4	21841.8
70°	1058.1	1065.3	1101.0	1190.4	1662.3	3449.7	8186.2	15561.0	25241.4	25734.8	20086.6
72.5°	940.2	947.3	961.6	979.5	1126.1	1994.7	4979.7	11975.5	21938.4	22724.8	17330.5
75°	825.8	850.8	857.9	843.6	958.0	1297.6	2648.9	8801.1	17895.3	18277.8	13476.9
77.5°	700.7	711.4	725.7	740.0	854.4	968.8	1272.6	5941.3	12282.9	12050.5	7289.0
80°	589.8	593.4	604.1	614.9	740.0	740.0	722.1	3210.1	5365.7	5129.8	2463.0
82.5°	421.8	446.8	471.9	500.5	614.9	496.9	471.9	1429.9	1698.0	1615.8	832.9
85°	164.4	200.2	311.0	343.2	389.6	268.1	314.6	618.4	707.8	700.7	311.0
87.5°	28.6	32.2	85.8	132.3	143.0	92.9	150.1	221.6	264.5	286.0	114.4
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°	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1
2.5°	3238.7	3127.9	2995.7	2863.4	2777.6	2641.8	2631.0	2548.8	2538.1	2509.5	2523.8
5°	3263.8	3131.5	2863.4	2652.5	2556.0	2477.3	2495.2	2459.4	2448.7	2430.8	2402.2
7.5°	3460.4	3199.4	2799.0	2616.7	2545.2	2509.5	2509.5	2466.6	2434.4	2455.9	2477.3
10°	3589.1	3231.6	2849.1	2666.8	2609.6	2530.9	2559.5	2505.9	2523.8	2480.9	2480.9
12.5°	3796.4	3413.9	2952.8	2741.8	2648.9	2577.4	2606.0	2545.2	2530.9	2534.5	2523.8
15°	4075.2	3535.4	2999.2	2784.7	2720.4	2631.0	2609.6	2556.0	2502.3	2484.5	2505.9
17.5°	4336.2	3685.6	3031.4	2809.8	2706.1	2606.0	2581.0	2513.1	2495.2	2441.6	2398.7
20°	4647.2	3864.3	3074.3	2831.2	2652.5	2552.4	2488.0	2420.1	2359.3	2327.2	2341.5
22.5°	4854.5	3957.3	3095.7	2788.3	2573.8	2480.9	2345.0	2298.6	2212.8	2177.0	2148.4
25°	5194.1	4071.7	3042.1	2670.4	2434.4	2284.3	2162.7	2098.4	2037.6	1991.1	1976.8
27.5°	5279.9	4157.5	2917.0	2470.2	2212.8	2055.5	1951.8	1873.2	1833.9	1762.4	1748.1
30°	5530.2	4071.7	2731.1	2227.1	2001.9	1841.0	1737.3	1680.1	1587.2	1569.3	1530.0
32.5°	5691.0	4096.7	2495.2	1991.1	1758.8	1615.8	1547.9	1490.7	1465.7	1379.9	1358.4
35°	5959.1	4010.9	2255.7	1773.1	1558.6	1447.8	1390.6	1372.7	1290.5	1251.2	1215.4
37.5°	6130.7	3960.8	2016.2	1526.4	1340.5	1294.1	1311.9	1236.9	1136.8	1061.7	1036.7
40°	6431.0	3943.0	1744.5	1322.7	1190.4	1179.7	1236.9	1093.9	911.6	847.2	811.5
42.5°	6863.6	3821.4	1533.6	1140.4	1072.4	1118.9	1129.6	911.6	807.9	754.3	729.3
45°	7278.2	3846.5	1326.2	943.7	933.0	1000.9	975.9	772.2	711.4	672.1	693.5
47.5°	8075.4	3971.6	1122.5	786.4	840.1	904.4	757.9	689.9	632.7	604.1	607.7
50°	9308.7	4093.1	943.7	718.5	793.6	818.6	650.6	625.6	622.0	564.8	561.2
52.5°	10048.7	4046.6	911.6	804.3	850.8	818.6	707.8	689.9	661.3	636.3	607.7
55°	11224.8	4182.5	979.5	940.2	965.2	786.4	793.6	786.4	765.0	700.7	718.5
57.5°	12161.4	4271.8	1068.9	1051.0	1036.7	818.6	829.3	832.9	818.6	790.0	815.0
60°	13448.3	4450.6	1161.8	1165.4	1168.9	890.1	908.0	929.4	925.9	915.1	922.3
62.5°	14238.3	4368.4	1265.5	1322.7	1304.8	1036.7	1033.1	1047.4	1047.4	1065.3	1076.0
65°	14120.3	4064.5	1319.1	1462.1	1369.1	1143.9	1143.9	1151.1	1154.7	1190.4	1194.0
67°	13412.5	3521.1	1290.5	1483.5	1369.1	1186.8	1186.8	1194.0	1168.9	1261.9	1233.3
67.5°	13083.7	3360.3	1265.5	1465.7	1358.4	1183.2	1183.2	1186.8	1165.4	1254.7	1226.1
70°	11378.5	2495.2	1090.3	1297.6	1258.3	1151.1	1151.1	1129.6	1111.8	1229.7	1204.7
72.5°	9712.6	1812.4	875.8	1104.6	1136.8	1108.2	1115.3	1061.7	1011.7	1093.9	1072.4
75°	7439.1	1333.4	682.8	850.8	961.6	1036.7	1083.2	947.3	883.0	904.4	865.1
77.5°	4150.3	868.7	539.8	629.2	732.8	965.2	1040.3	854.4	722.1	697.1	697.1
80°	1408.5	507.6	396.8	468.3	504.0	854.4	972.3	693.5	568.4	543.4	525.5
82.5°	532.6	311.0	271.7	321.7	321.7	675.6	793.6	532.6	429.0	554.1	564.8
85°	243.1	185.9	178.7	185.9	185.9	414.7	561.2	346.8	386.1	332.5	293.1
87.5°	96.5	89.4	82.2	78.6	64.3	71.5	193.0	92.9	175.2	46.5	42.9
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)