

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: P477173

Luminaire Tested: **IFLD-L-SA8B-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

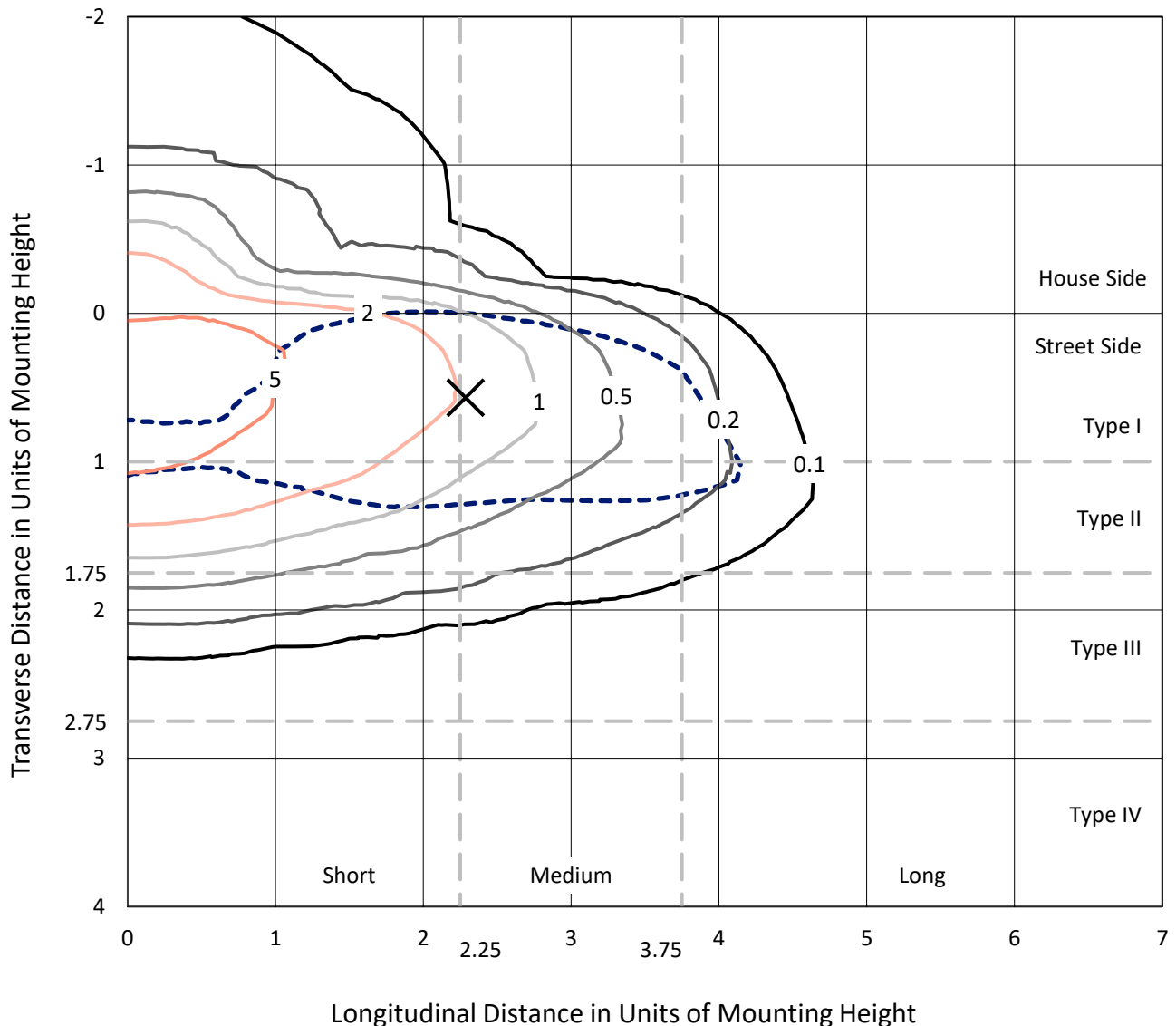
Lumens per Lamp: N/A
Luminaire Lumens: 32520.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

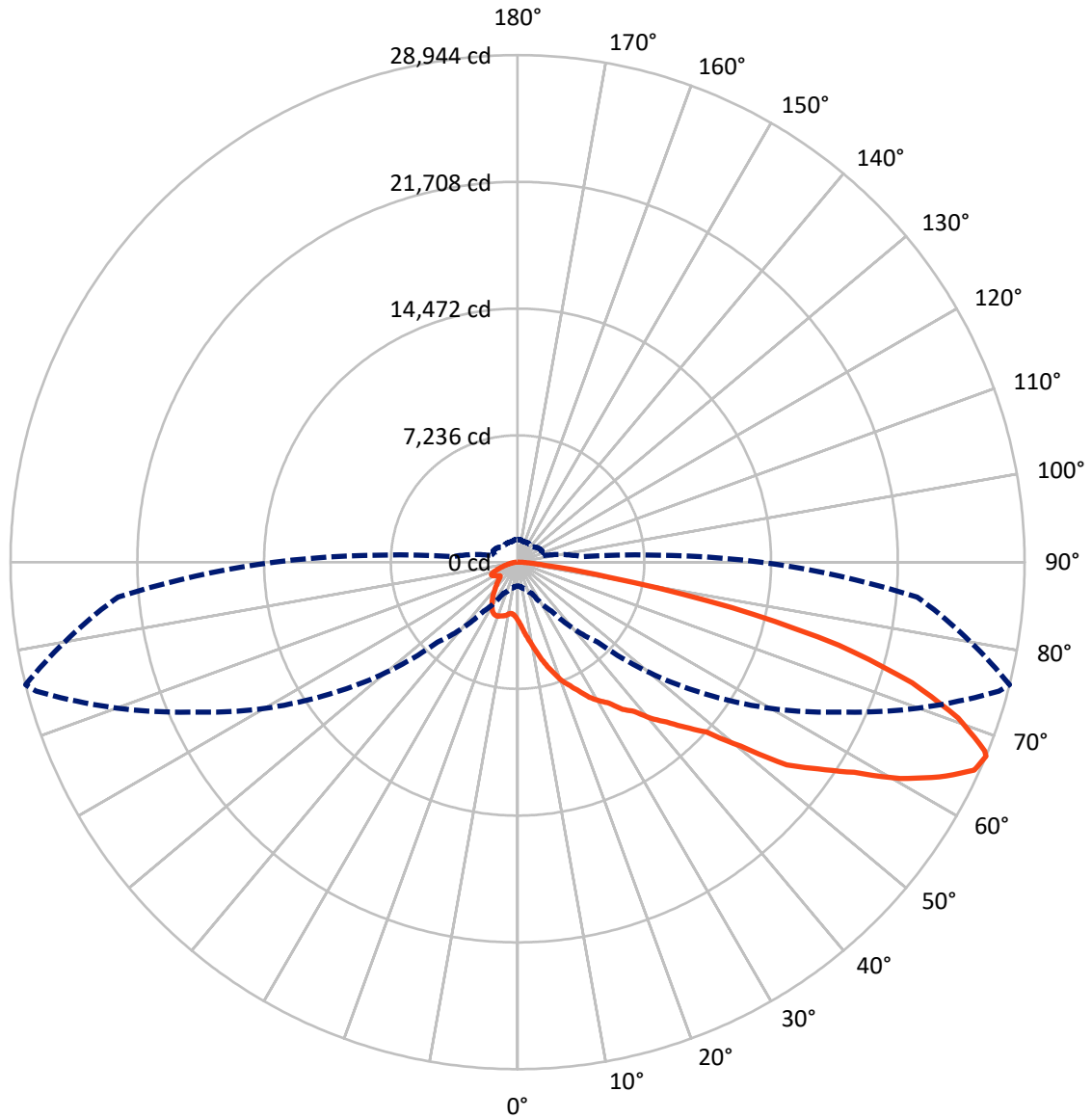
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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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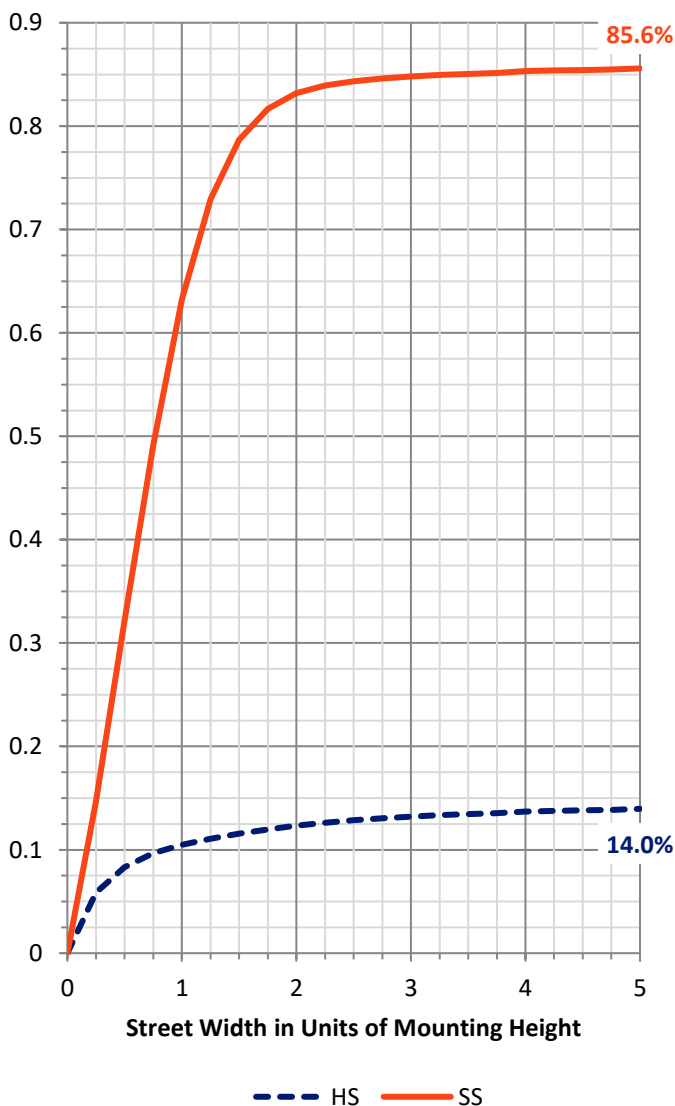
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4626.5	0.0	4626.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	27894.4	0.0	27894.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	32520.9	0.0	32520.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	1.2
10°-20°	1445.8	4.4
20°-30°	2688.0	8.3
30°-40°	4261.1	13.1
40°-50°	5893.5	18.1
50°-60°	7249.4	22.3
60°-70°	6745.9	20.7
70°-80°	3385.0	10.4
80°-90°	466.7	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°	32520.9	100.0
0°-180°	32520.9	100.0

Coefficient of Utilization



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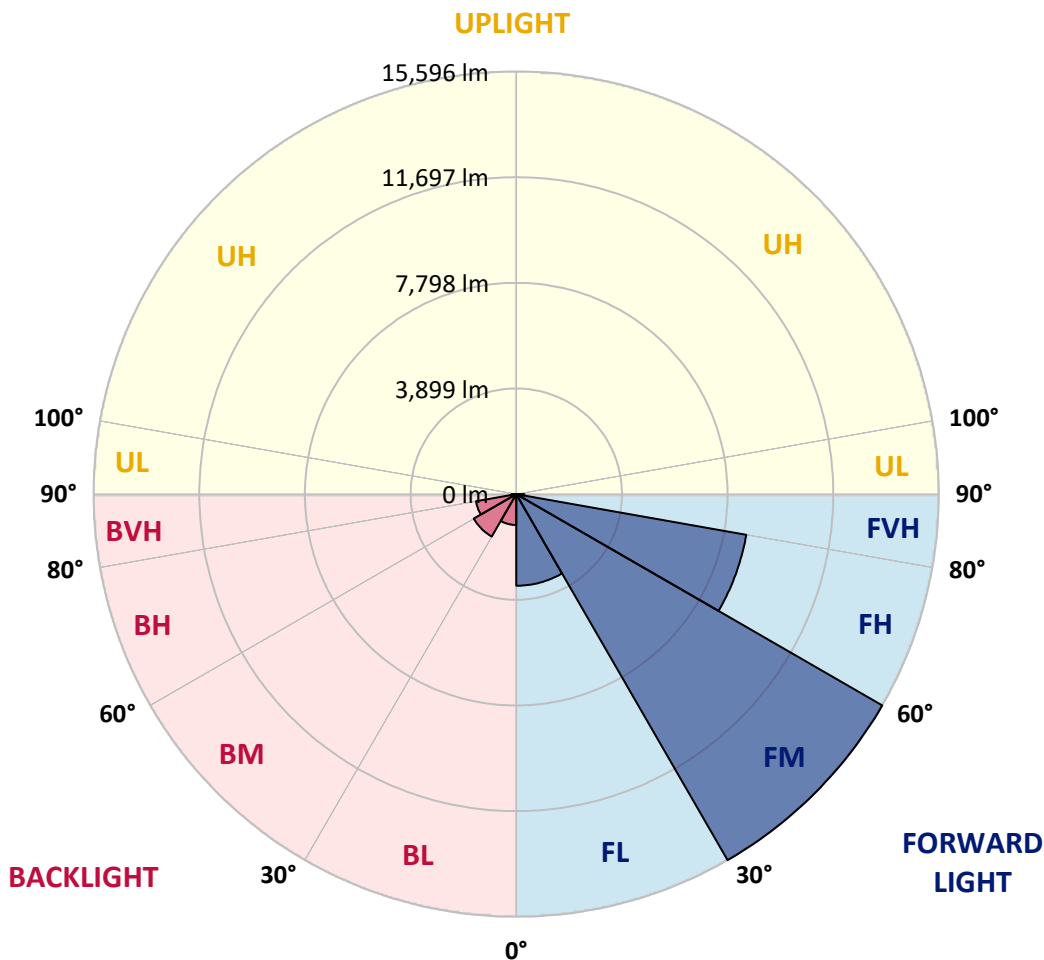
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.0	10.4			
FM (30°-60°)	15596.0	48.0			
FH (60°-80°)	8621.0	26.5			G4/12000
FVH (80°-90°)	297.4	0.9			G3/500
BL (0°-30°)	1139.3	3.5	B3/2500		
BM (30°-60°)	1807.9	5.6	B2/2500		
BH (60°-80°)	1509.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	169.4	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°	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0
2.5°	4617.7	4562.1	4506.5	4387.9	4347.2	4236.0	4032.2	3806.1	3620.8	3594.9	3465.1
5°	5729.5	5648.0	5629.5	5562.8	5351.5	5136.6	4803.0	4439.8	3987.7	4021.0	3576.3
7.5°	6563.4	6515.2	6415.1	6352.1	6226.1	5940.8	5596.1	5114.3	4539.9	4428.7	3824.6
10°	7193.4	7126.7	7123.0	7067.4	7000.7	6707.9	6444.8	5796.2	5058.7	4906.8	4128.5
12.5°	7512.1	7501.0	7697.4	7697.4	7671.5	7549.2	7097.1	6504.1	5551.6	5499.8	4480.6
15°	7856.8	7764.1	7934.6	8064.3	8131.0	8194.0	7819.7	7193.4	6181.7	6081.6	4858.6
17.5°	7856.8	7849.4	8019.9	8234.8	8583.2	8664.7	8460.9	7827.1	6704.2	6630.1	5273.7
20°	7723.4	7830.9	7949.4	8238.5	8616.5	8946.4	9005.7	8475.7	7282.4	7223.1	5744.4
22.5°	8346.0	8242.2	8364.5	8475.7	8768.5	9268.8	9431.9	9046.4	7890.1	7664.1	6170.5
25°	9391.1	9320.7	9231.7	9068.7	9191.0	9409.6	9657.9	9468.9	8409.0	8157.0	6581.9
27.5°	10410.3	10414.0	10221.2	9865.5	9602.3	9646.8	9939.6	9839.5	8846.3	8735.1	6863.6
30°	11859.3	11770.4	11555.4	11073.6	10558.5	10136.0	10087.8	10184.2	9402.2	9187.3	7267.5
32.5°	12945.2	12963.7	12659.8	11966.8	11262.6	10918.0	10495.5	10536.3	9754.3	9594.9	7590.0
35°	13823.5	13801.3	13586.3	13011.9	12178.0	11763.0	11192.2	10958.7	10573.3	10321.3	8082.9
37.5°	14772.3	14590.7	14242.3	13593.7	13060.1	12485.6	11929.7	11403.5	11118.1	10814.2	8505.4
40°	15154.0	15154.0	14687.0	14390.5	13756.8	13323.2	12963.7	11989.0	11781.5	11722.2	9046.4
42.5°	14883.4	15050.2	14857.5	14520.2	14260.8	13712.3	13616.0	12596.8	12600.5	12481.9	9695.0
45°	14857.5	14627.7	14468.4	14553.6	14431.3	14401.7	14646.3	13438.1	13460.3	13445.5	10565.9
47.5°	14112.6	14008.8	14246.0	14386.8	14486.9	14946.4	15650.6	14442.4	14601.8	14490.6	11570.2
50°	13371.4	13352.8	13501.1	14012.5	14446.1	15202.2	16606.7	15991.5	16514.1	16506.7	13389.9
52.5°	11340.5	11536.9	12118.7	13200.9	14271.9	15550.5	17329.4	17970.6	18967.5	19238.0	14898.3
55°	9398.5	9294.7	10154.5	11725.9	13512.2	15687.6	18137.3	19160.2	20627.8	20824.2	16447.4
57.5°	7312.0	7504.7	8182.9	9691.3	11940.8	15009.4	18730.3	20335.0	22503.0	22655.0	18244.8
60°	5455.3	5481.2	6226.1	7441.7	9850.6	13478.9	18923.0	21539.5	24652.5	25086.2	20127.5
62.5°	3431.8	3587.4	4154.5	5351.5	7415.8	11336.8	18059.5	22269.6	26905.8	27020.7	22025.0
65°	1849.3	1949.4	2375.6	3127.9	5181.0	8575.8	15769.2	21832.3	27965.7	28647.7	22869.9
67°	1367.5	1386.1	1582.5	1997.6	3465.1	6455.9	13149.0	20249.8	28447.5	28944.1	22903.3
67.5°	1282.3	1308.2	1463.9	1793.7	3072.3	5944.5	12463.4	19686.5	28232.6	28766.2	22643.9
70°	1097.0	1104.4	1141.5	1234.1	1723.3	3576.3	8486.8	16132.4	26168.3	26679.7	20824.2
72.5°	974.7	982.1	996.9	1015.5	1167.4	2068.0	5162.5	12415.2	22743.9	23559.3	17966.9
75°	856.1	882.0	889.4	874.6	993.2	1345.3	2746.2	9124.3	18552.4	18949.0	13971.8
77.5°	726.4	737.5	752.3	767.1	885.7	1004.3	1319.3	6159.4	12733.9	12493.0	7556.6
80°	611.5	615.2	626.3	637.4	767.1	767.1	748.6	3328.0	5562.8	5318.2	2553.5
82.5°	437.3	463.3	489.2	518.8	637.4	515.1	489.2	1482.4	1760.4	1675.1	863.5
85°	170.5	207.5	322.4	355.8	404.0	278.0	326.1	641.1	733.8	726.4	322.4
87.5°	29.6	33.4	88.9	137.1	148.2	96.4	155.7	229.8	274.2	296.5	118.6
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°	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0	3328.0
2.5°	3357.7	3242.8	3105.7	2968.5	2879.6	2738.8	2727.6	2642.4	2631.3	2601.6	2616.5
5°	3383.6	3246.5	2968.5	2749.9	2649.8	2568.3	2586.8	2549.8	2538.6	2520.1	2490.5
7.5°	3587.4	3316.9	2901.8	2712.8	2638.7	2601.6	2601.6	2557.2	2523.8	2546.0	2568.3
10°	3720.9	3350.3	2953.7	2764.7	2705.4	2623.9	2653.5	2597.9	2616.5	2572.0	2572.0
12.5°	3935.8	3539.3	3061.2	2842.5	2746.2	2672.1	2701.7	2638.7	2623.9	2627.6	2616.5
15°	4224.9	3665.3	3109.4	2887.0	2820.3	2727.6	2705.4	2649.8	2594.2	2575.7	2597.9
17.5°	4495.4	3820.9	3142.7	2912.9	2805.5	2701.7	2675.8	2605.3	2586.8	2531.2	2486.7
20°	4817.8	4006.2	3187.2	2935.2	2749.9	2646.1	2579.4	2509.0	2446.0	2412.6	2427.5
22.5°	5032.8	4102.6	3209.4	2890.7	2668.3	2572.0	2431.2	2383.0	2294.0	2257.0	2227.3
25°	5384.9	4221.2	3153.8	2768.4	2523.8	2368.2	2242.2	2175.4	2112.4	2064.3	2049.4
27.5°	5473.8	4310.1	3024.1	2560.9	2294.0	2131.0	2023.5	1942.0	1901.2	1827.1	1812.3
30°	5733.2	4221.2	2831.4	2308.9	2075.4	1908.6	1801.1	1741.8	1645.5	1626.9	1586.2
32.5°	5900.0	4247.1	2586.8	2064.3	1823.4	1675.1	1604.7	1545.4	1519.5	1430.5	1408.3
35°	6178.0	4158.2	2338.5	1838.2	1615.8	1500.9	1441.6	1423.1	1337.9	1297.1	1260.1
37.5°	6355.9	4106.3	2090.2	1582.5	1389.8	1341.6	1360.1	1282.3	1178.5	1100.7	1074.8
40°	6667.2	4087.8	1808.5	1371.2	1234.1	1223.0	1282.3	1134.0	945.0	878.3	841.3
42.5°	7115.6	3961.8	1589.9	1182.2	1111.8	1160.0	1171.1	945.0	837.6	782.0	756.0
45°	7545.5	3987.7	1374.9	978.4	967.3	1037.7	1011.7	800.5	737.5	696.7	719.0
47.5°	8371.9	4117.4	1163.7	815.3	870.9	937.6	785.7	715.3	656.0	626.3	630.0
50°	9650.5	4243.4	978.4	744.9	822.7	848.7	674.5	648.6	644.9	585.6	581.8
52.5°	10417.7	4195.2	945.0	833.9	882.0	848.7	733.8	715.3	685.6	659.7	630.0
55°	11637.0	4336.1	1015.5	974.7	1000.6	815.3	822.7	815.3	793.1	726.4	744.9
57.5°	12607.9	4428.7	1108.1	1089.6	1074.8	848.7	859.8	863.5	848.7	819.0	845.0
60°	13942.1	4614.0	1204.5	1208.2	1211.9	922.8	941.3	963.6	959.9	948.7	956.2
62.5°	14761.1	4528.8	1311.9	1371.2	1352.7	1074.8	1071.0	1085.9	1085.9	1104.4	1115.5
65°	14638.8	4213.8	1367.5	1515.8	1419.4	1185.9	1185.9	1193.3	1197.0	1234.1	1237.8
67°	13905.0	3650.4	1337.9	1538.0	1419.4	1230.4	1230.4	1237.8	1211.9	1308.2	1278.6
67.5°	13564.1	3483.7	1311.9	1519.5	1408.3	1226.7	1226.7	1230.4	1208.2	1300.8	1271.2
70°	11796.3	2586.8	1130.3	1345.3	1304.5	1193.3	1193.3	1171.1	1152.6	1274.9	1248.9
72.5°	10069.3	1879.0	908.0	1145.2	1178.5	1148.9	1156.3	1100.7	1048.8	1134.0	1111.8
75°	7712.3	1382.4	707.9	882.0	996.9	1074.8	1122.9	982.1	915.4	937.6	896.9
77.5°	4302.7	900.6	559.6	652.3	759.7	1000.6	1078.5	885.7	748.6	722.7	722.7
80°	1460.2	526.3	411.4	485.5	522.6	885.7	1008.0	719.0	589.3	563.3	544.8
82.5°	552.2	322.4	281.7	333.5	333.5	700.4	822.7	552.2	444.7	574.4	585.6
85°	252.0	192.7	185.3	192.7	192.7	429.9	581.8	359.5	400.3	344.7	303.9
87.5°	100.1	92.7	85.2	81.5	66.7	74.1	200.1	96.4	181.6	48.2	44.5
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)