

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: P479982

Luminaire Tested: **IFLD-L-SA8C-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479982
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

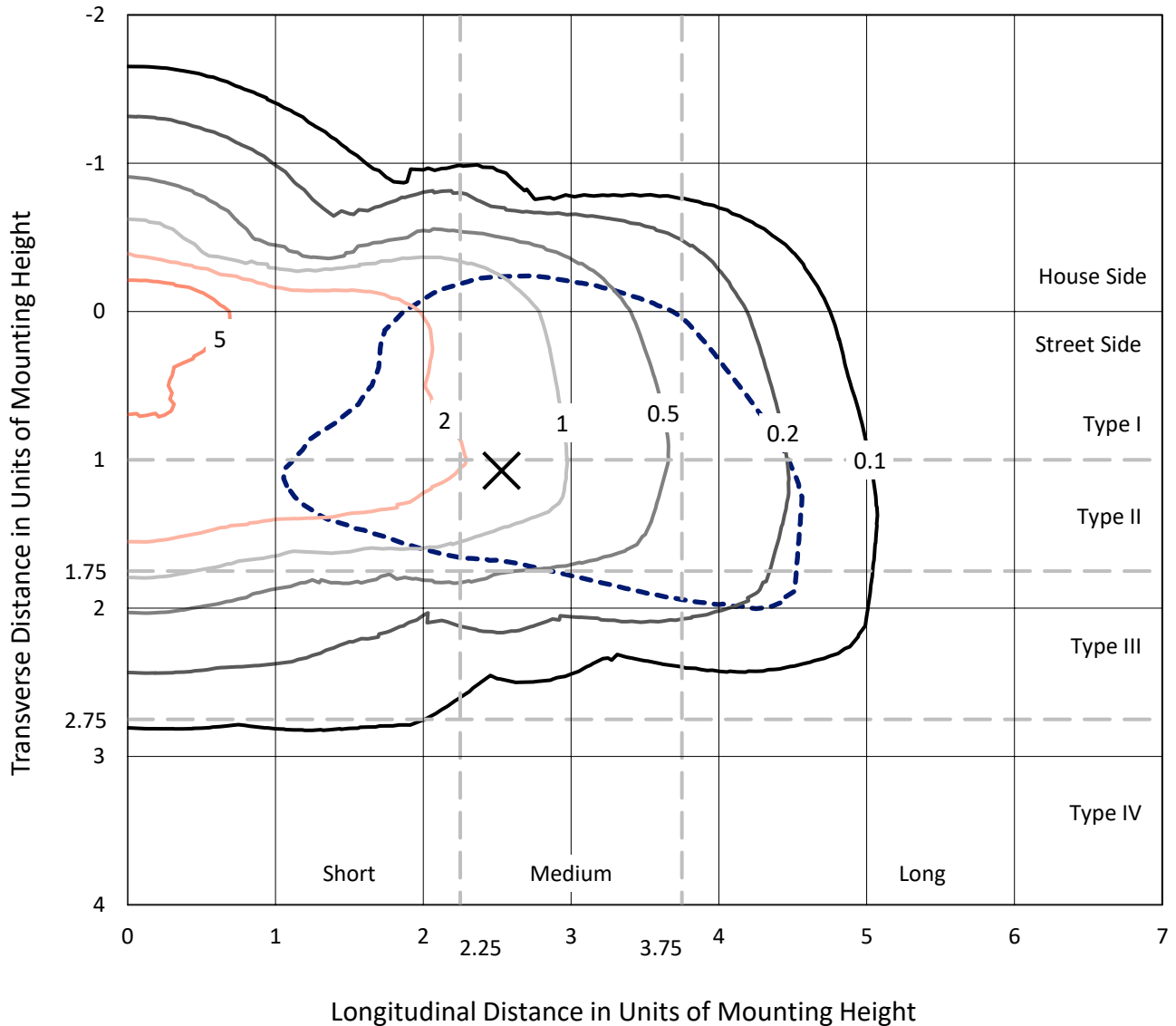
Lumens per Lamp: N/A
Luminaire Lumens: 37209.3 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

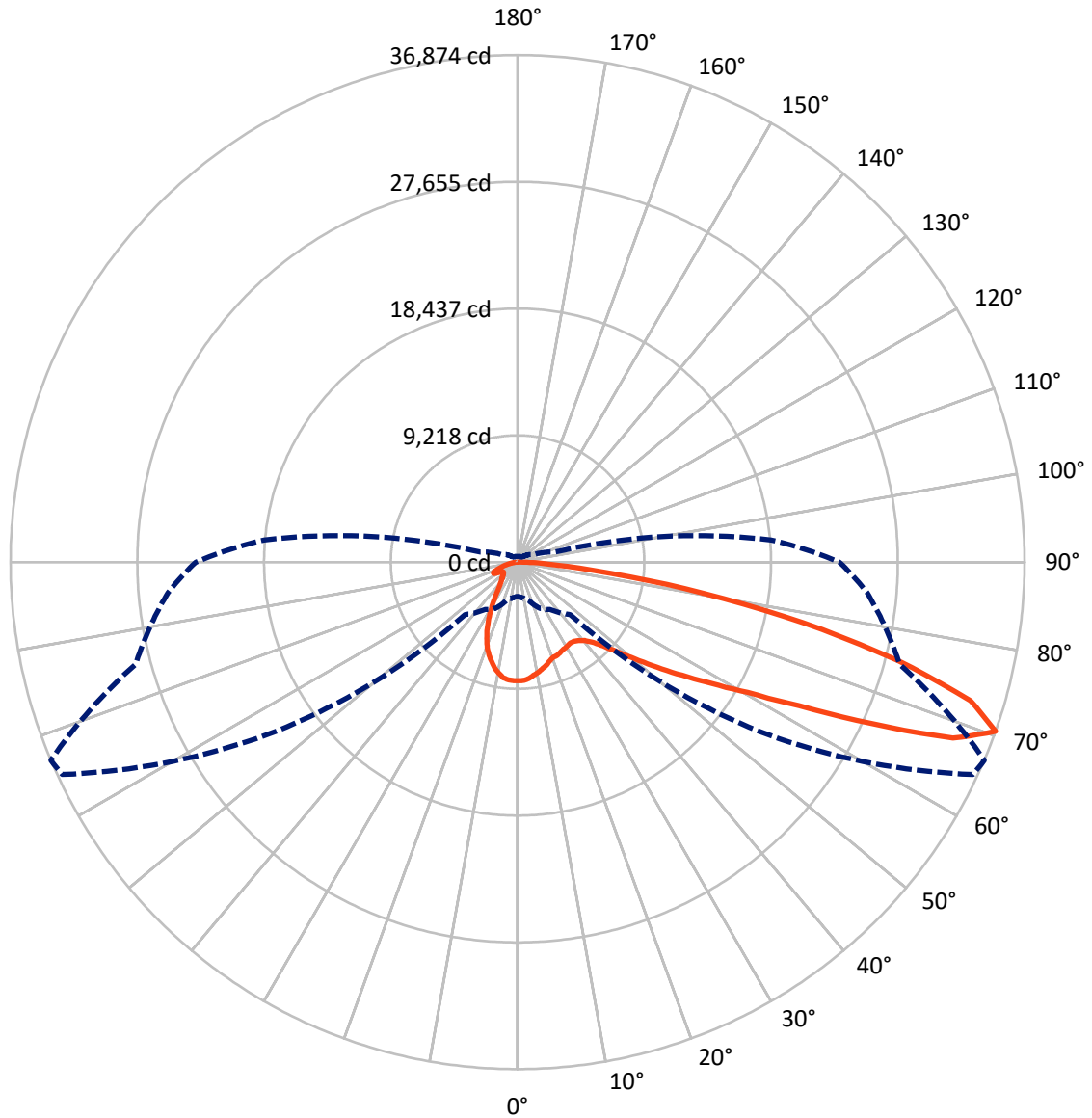
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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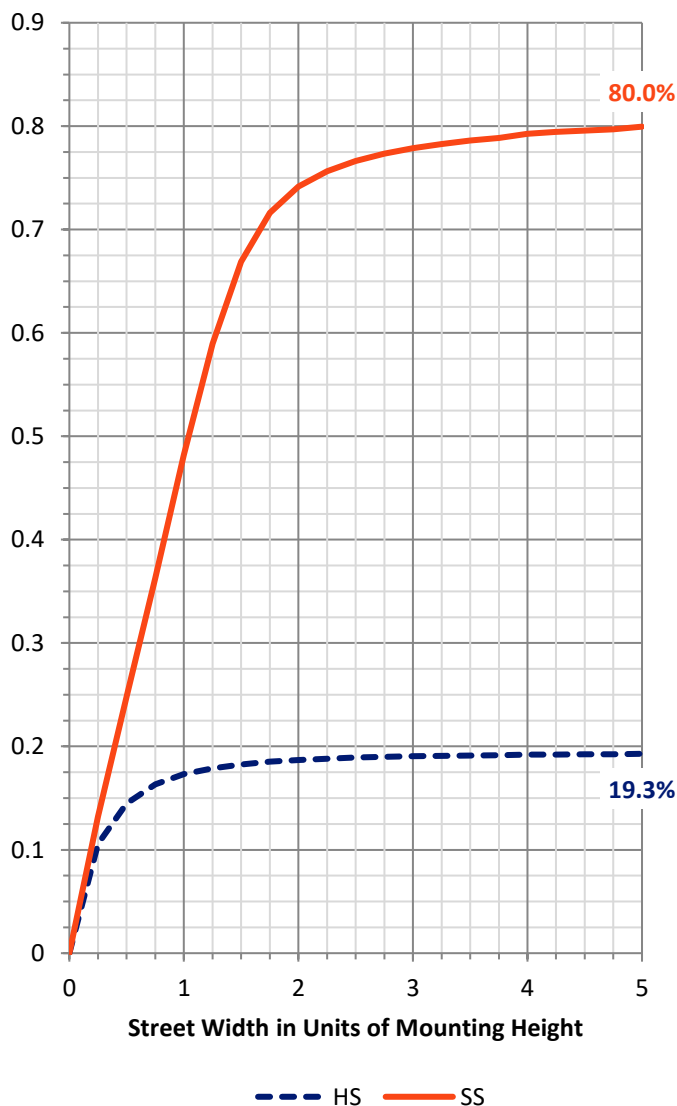
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7246.9	0.0	7246.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	29962.4	0.0	29962.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	37209.3	0.0	37209.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.6	2.0
10°-20°	1800.0	4.8
20°-30°	2430.8	6.5
30°-40°	3252.6	8.7
40°-50°	4782.8	12.9
50°-60°	7455.3	20.0
60°-70°	9183.6	24.7
70°-80°	6489.1	17.4
80°-90°	1063.6	2.9
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°	37209.3	100.0
0°-180°	37209.3	100.0

Coefficient of Utilization



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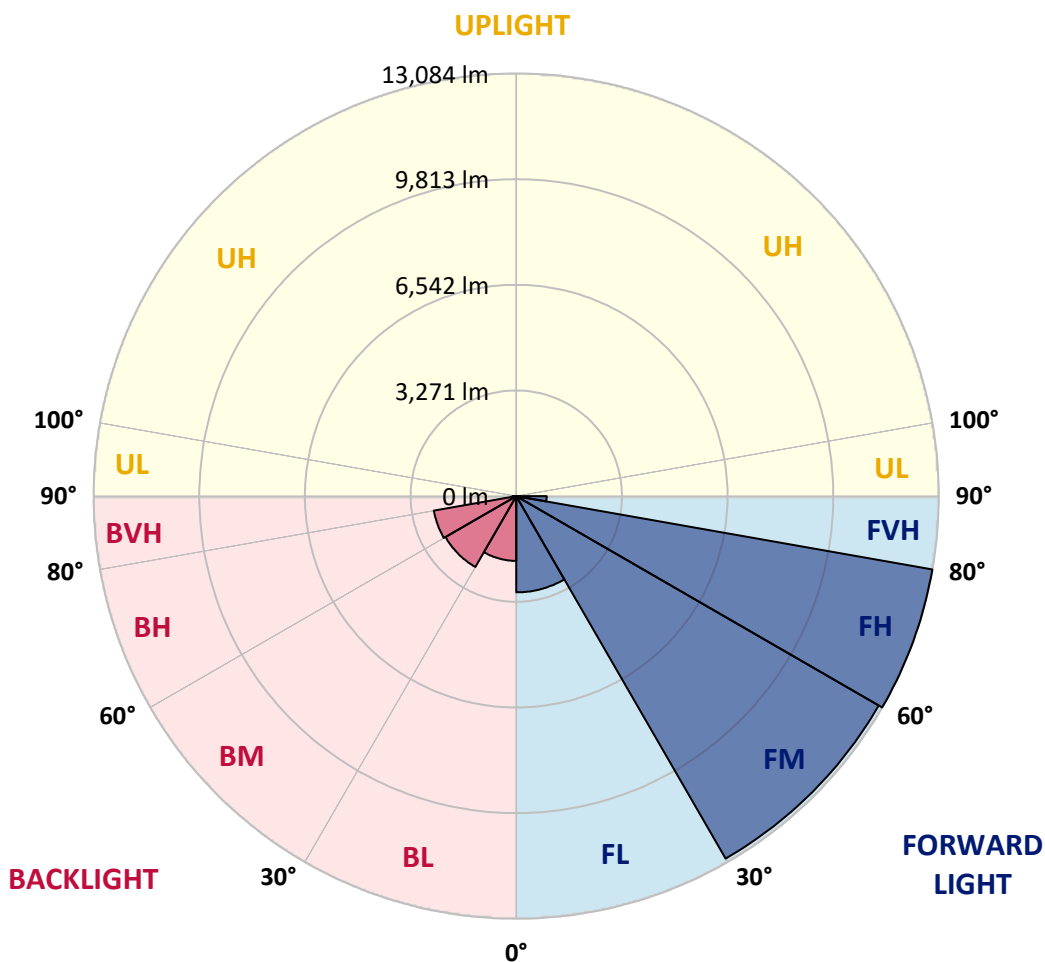
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2978.3	8.0			
FM (30°-60°)	12959.2	34.8			
FH (60°-80°)	13084.0	35.2			G5
FVH (80°-90°)	940.9	2.5			G5
BL (0°-30°)	2004.0	5.4	B3/2500		
BM (30°-60°)	2531.5	6.8	B3/5000		
BH (60°-80°)	2588.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	122.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8
2.5°	8020.6	8111.3	8144.2	8193.6	8321.3	8416.1	8473.8	8539.7	8618.0	8683.9	8725.1
5°	7460.4	7509.8	7588.1	7641.6	7802.3	8057.7	8230.7	8510.8	8502.6	8605.6	8762.1
7.5°	6916.6	6966.0	7003.1	7110.2	7340.9	7571.6	7888.8	8341.9	8309.0	8547.9	8791.0
10°	6578.8	6541.7	6554.1	6735.3	6916.6	7176.1	7575.7	8037.1	8156.6	8527.3	8873.4
12.5°	6261.6	6220.4	6319.3	6434.6	6657.1	6891.9	7369.7	7785.8	7967.1	8453.2	8910.4
15°	6063.9	6035.0	6158.6	6208.1	6471.7	6751.8	7089.6	7596.3	7794.1	8362.5	8852.8
17.5°	5952.6	5977.4	6022.7	6129.8	6298.7	6537.6	6908.4	7468.6	7555.1	8251.3	8840.4
20°	5973.2	6002.1	6006.2	6051.5	6166.9	6352.2	6731.2	7332.7	7390.3	8230.7	8873.4
22.5°	6138.0	6096.8	6113.3	6084.5	6117.4	6261.6	6595.3	7151.4	7373.9	8057.7	8803.3
25°	6385.2	6327.5	6319.3	6220.4	6158.6	6199.8	6570.6	7106.1	7250.3	8004.1	8799.2
27.5°	6821.9	6735.3	6735.3	6587.0	6335.8	6269.8	6500.5	7032.0	7159.7	7954.7	8704.5
30°	7242.0	7242.0	7246.2	7036.1	6755.9	6430.5	6529.4	7003.1	7085.5	7806.4	8576.8
32.5°	7752.9	7740.5	7719.9	7616.9	7184.4	6698.3	6669.4	6966.0	7007.2	7757.0	8539.7
35°	8251.3	8218.4	8379.0	8288.4	7847.6	7221.4	6813.6	6982.5	7073.1	7682.8	8424.3
37.5°	8626.2	8646.8	8980.5	9038.1	8659.1	7814.7	7221.4	7147.3	7233.8	7789.9	8424.3
40°	9112.3	9194.7	9507.8	9701.4	9470.7	8597.4	7868.2	7423.3	7485.1	8028.9	8605.6
42.5°	9750.8	9820.8	10220.4	10471.7	10405.8	9594.3	8506.7	8000.0	7950.6	8428.5	8877.5
45°	10595.3	10607.7	11011.4	11357.4	11493.3	10636.5	9520.1	8729.2	8688.0	9116.4	9375.9
47.5°	11600.5	11588.1	11839.4	12210.1	12576.8	11880.6	10685.9	9837.3	9689.0	10101.0	10204.0
50°	12572.7	12519.1	12576.8	13050.5	13754.9	13437.7	12103.0	11192.6	11044.3	11270.9	11448.0
52.5°	13108.2	13174.1	13017.6	13643.7	15007.3	15279.1	13981.5	12811.6	12683.9	12795.1	13104.1
55°	12733.3	12869.3	12766.3	13359.5	15555.2	17524.3	16412.0	14685.9	14521.2	14480.0	14986.7
57.5°	11139.1	11386.2	11406.8	12346.1	15365.7	19262.7	19831.2	16898.1	16650.9	16230.7	16753.9
60°	8552.0	8799.2	8988.7	10101.0	13742.6	20300.8	23794.1	20045.4	19229.7	18142.2	18455.3
62.5°	5993.8	6162.7	6352.2	7036.1	10595.3	19691.1	27221.5	24477.9	22974.3	20156.6	20548.0
65°	4366.6	4498.5	4692.1	5095.8	6508.8	16292.5	28811.6	29742.6	28317.3	22718.9	22669.5
67.5°	3287.3	3369.7	3625.1	4271.9	4510.8	10063.9	27163.8	35303.9	34150.5	25565.5	24375.0
70°	2488.2	2558.2	2797.1	3682.8	4214.2	5396.5	21429.5	36543.9	36873.5	28758.1	25520.2
72.5°	1713.7	1792.0	2059.7	3069.0	4012.4	4280.1	13450.1	33198.9	34447.1	30072.2	24292.6
75°	1050.5	1104.0	1260.6	2327.5	3983.5	4185.4	7402.7	27205.0	28527.4	27785.9	21252.4
77.5°	741.5	737.4	766.2	1363.5	3452.1	4210.1	4564.4	19934.2	21219.4	20477.9	14422.3
80°	539.7	543.8	572.6	815.7	2344.0	4280.1	3596.3	13351.2	13734.3	10677.7	5689.0
82.5°	325.4	341.9	411.9	552.0	1408.9	3864.1	3324.4	7419.2	6941.3	3427.4	1565.4
85°	173.0	173.0	243.0	350.2	749.7	2883.6	3200.8	3530.4	2957.8	1062.8	580.8
87.5°	41.2	41.2	70.0	140.1	300.7	1380.0	2183.3	1404.7	1124.6	358.4	238.9
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°	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8	8613.8
2.5°	8708.6	8659.1	8720.9	8597.4	8498.5	8502.6	8350.2	8341.9	8321.3	8214.2	8251.3
5°	8807.4	8766.3	8696.2	8560.3	8341.9	8123.6	7991.8	7822.9	7752.9	7715.8	7732.3
7.5°	8902.2	8828.0	8626.2	8436.7	8098.9	7686.9	7448.0	7221.4	6933.1	6900.1	6842.5
10°	8926.9	8770.4	8510.8	8107.1	7658.1	7200.9	6657.1	6236.9	6014.4	5841.4	5775.5
12.5°	8889.8	8823.9	8325.5	7806.4	7126.7	6409.9	5775.5	5182.3	4770.4	4556.1	4498.5
15°	8885.7	8770.4	8119.5	7349.2	6479.9	5544.8	4642.7	3930.0	3497.4	3320.3	3320.3
17.5°	8889.8	8613.8	7876.4	6887.8	5717.8	4453.2	3460.4	2875.4	2636.5	2611.8	2632.3
20°	8807.4	8498.5	7621.0	6344.0	4762.1	3345.0	2512.9	2274.0	2274.0	2306.9	2319.3
22.5°	8733.3	8325.5	7217.3	5672.5	3789.9	2422.3	2043.3	1973.2	2051.5	2109.2	2133.9
25°	8630.3	8181.3	6805.4	4976.3	2883.6	1952.6	1775.5	1792.0	1866.1	1969.1	1960.9
27.5°	8482.0	7930.0	6315.2	4168.9	2146.2	1684.9	1639.6	1647.8	1726.1	1771.4	1763.1
30°	8313.1	7674.6	5862.0	3365.6	1701.3	1544.8	1540.7	1561.3	1573.6	1598.4	1594.2
32.5°	8098.9	7336.8	5380.0	2615.9	1532.4	1466.5	1450.1	1437.7	1450.1	1445.9	1433.6
35°	7946.5	7155.5	4889.8	1993.8	1437.7	1396.5	1384.1	1363.5	1347.1	1322.4	1318.2
37.5°	7905.3	6974.3	4374.9	1627.2	1363.5	1343.0	1301.8	1264.7	1244.1	1231.7	1223.5
40°	7880.6	6854.8	3872.3	1429.5	1301.8	1281.2	1231.7	1182.3	1161.7	1149.3	1153.5
42.5°	7967.1	6788.9	3361.5	1330.6	1248.2	1211.1	1157.6	1099.9	1095.8	1087.5	1099.9
45°	8271.9	6871.3	2887.8	1260.6	1194.6	1132.9	1062.8	1034.0	1029.9	1021.6	1029.9
47.5°	8964.0	7077.3	2484.0	1215.2	1137.0	1083.4	1009.3	968.1	964.0	959.8	959.8
50°	9919.7	7711.7	2146.2	1161.7	1099.9	1025.8	955.7	910.4	902.2	885.7	885.7
52.5°	11419.2	8778.6	1944.4	1132.9	1034.0	972.2	898.0	848.6	828.0	811.5	811.5
55°	13108.2	10101.0	1907.3	1083.4	964.0	906.3	840.4	790.9	770.3	749.7	741.5
57.5°	15032.0	11851.7	2171.0	1050.5	914.5	840.4	766.2	720.9	704.4	683.8	675.6
60°	16824.0	13598.4	2990.7	1001.0	869.2	778.6	704.4	659.1	638.5	617.9	617.9
62.5°	18896.1	15761.1	4379.0	1001.0	828.0	712.7	638.5	605.6	593.2	572.6	568.5
65°	21347.1	17998.0	5392.4	1062.8	815.7	655.0	576.7	543.8	531.4	519.1	514.9
67.5°	23213.3	19283.3	4638.5	1227.6	869.2	605.6	514.9	494.3	486.1	473.7	465.5
70°	23411.0	18500.6	2797.1	1326.5	922.8	556.1	461.4	440.8	440.8	428.4	420.2
72.5°	21635.5	16416.1	1882.6	1182.3	836.3	498.5	407.8	391.4	383.1	374.9	370.8
75°	18105.1	13923.8	1487.1	943.4	642.6	411.9	354.3	337.8	325.4	321.3	313.1
77.5°	12160.7	9050.5	1099.9	737.4	473.7	333.7	296.6	280.1	267.8	263.6	251.3
80°	4671.5	3448.0	708.6	535.5	333.7	263.6	234.8	218.3	210.1	197.7	189.5
82.5°	1375.9	1116.4	395.5	329.6	214.2	181.3	168.9	156.5	144.2	131.8	127.7
85°	568.5	510.8	243.0	173.0	131.8	107.1	98.9	86.5	74.2	65.9	57.7
87.5°	263.6	218.3	111.2	65.9	45.3	24.7	12.4	4.1	0.0	0.0	0.0
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)