

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: P480645

Luminaire Tested: **IFLD-L-SA8C-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

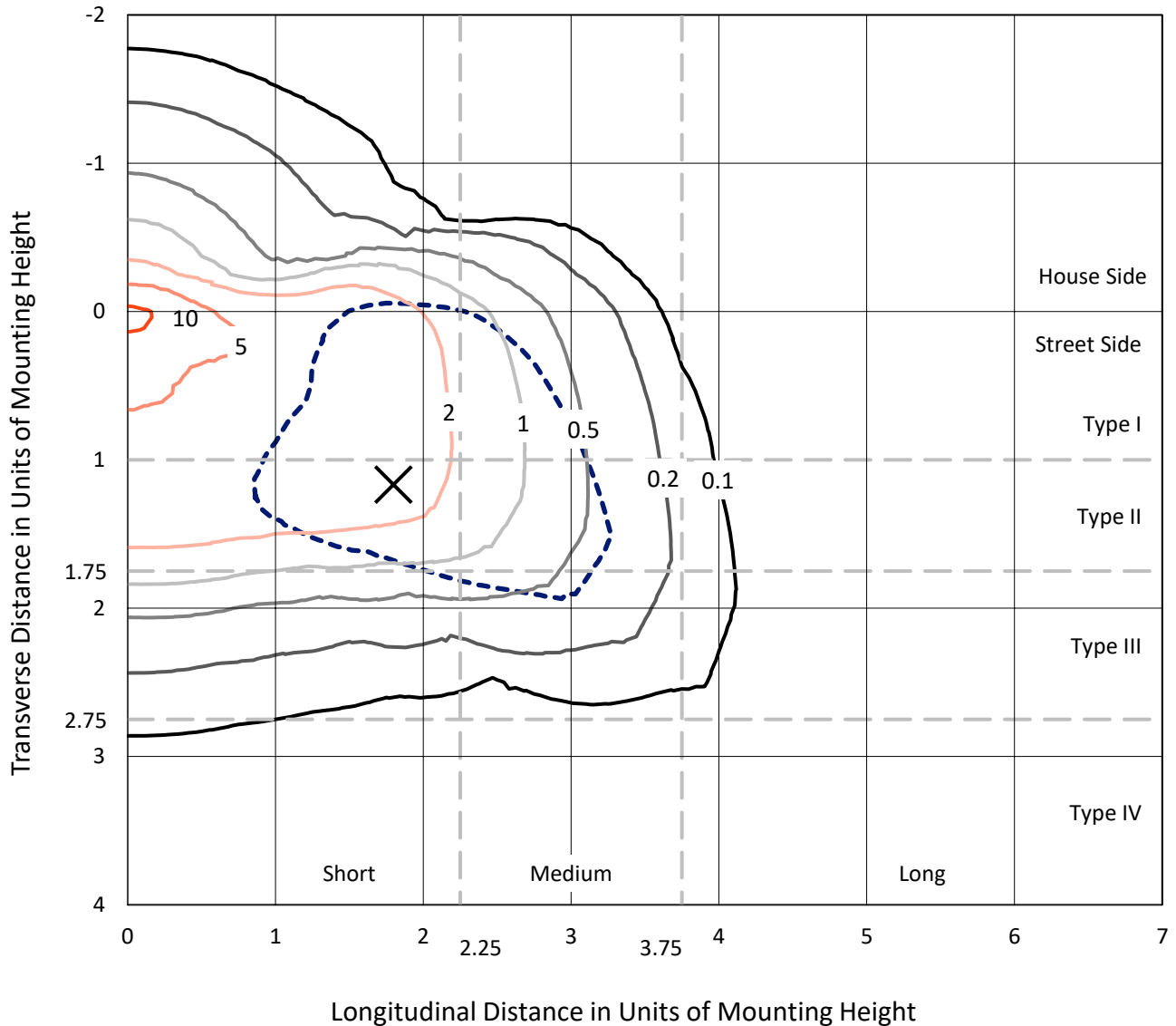
Lumens per Lamp: N/A
Luminaire Lumens: 36748.7 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

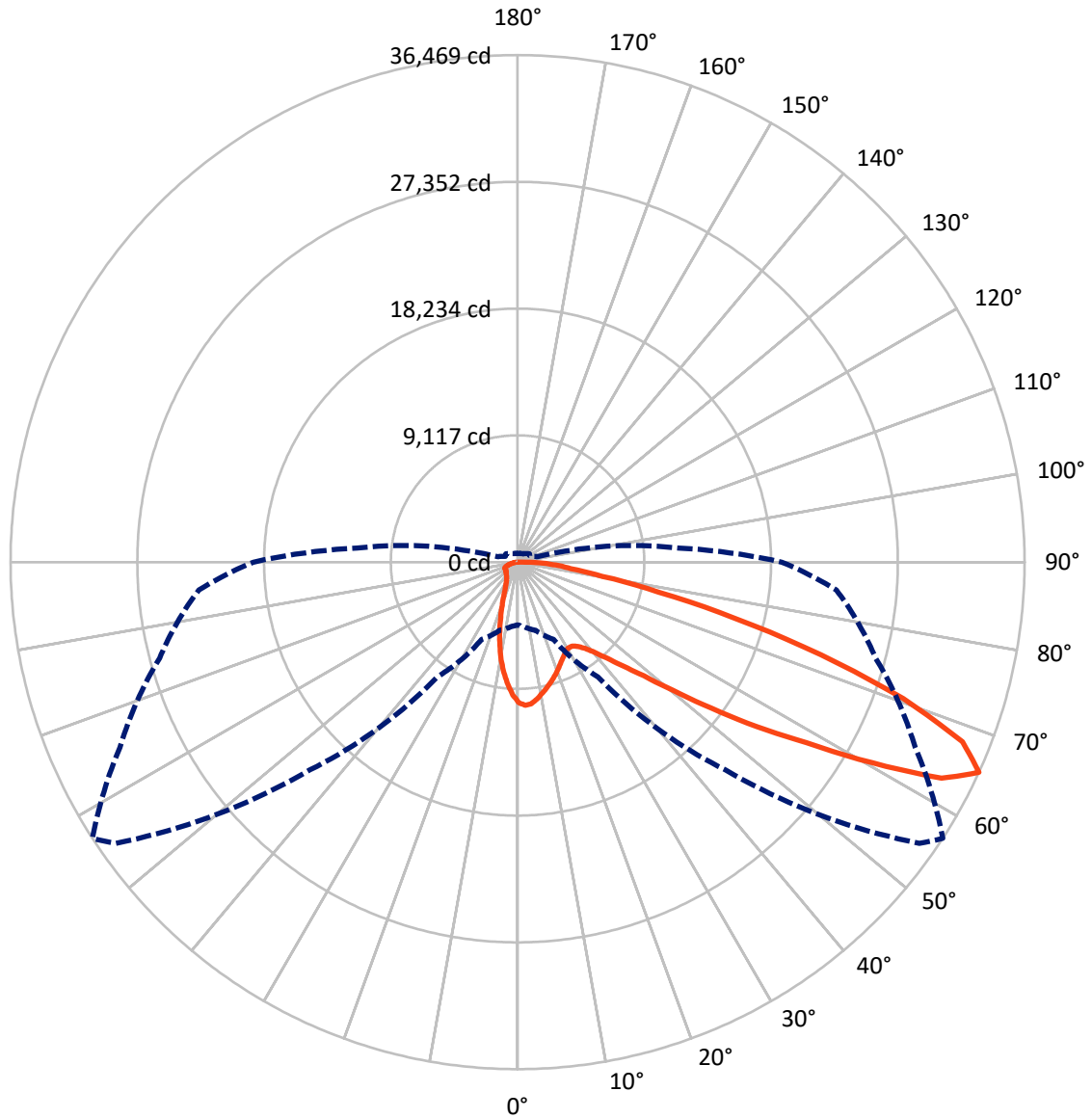
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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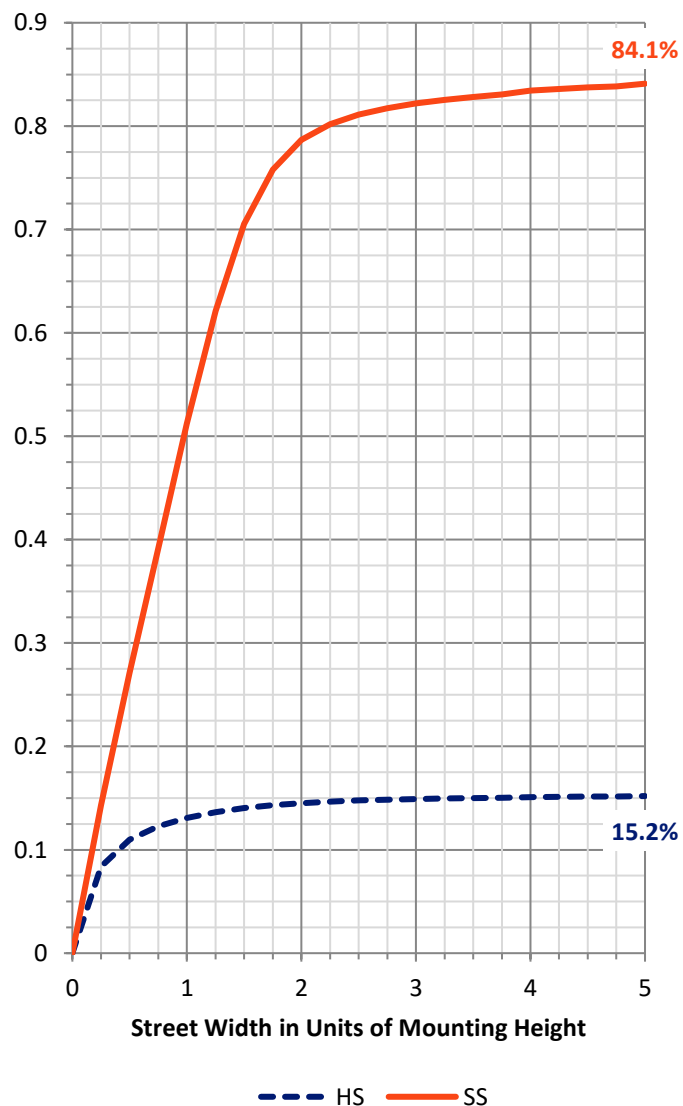
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5635.8	0.0	5635.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	31113.0	0.0	31113.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	36748.7	0.0	36748.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.2	2.3
10°-20°	1821.3	5.0
20°-30°	2354.7	6.4
30°-40°	3168.7	8.6
40°-50°	5052.6	13.7
50°-60°	8924.1	24.3
60°-70°	9817.8	26.7
70°-80°	4106.9	11.2
80°-90°	656.4	1.8
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°	36748.7	100.0
0°-180°	36748.7	100.0

Coefficient of Utilization



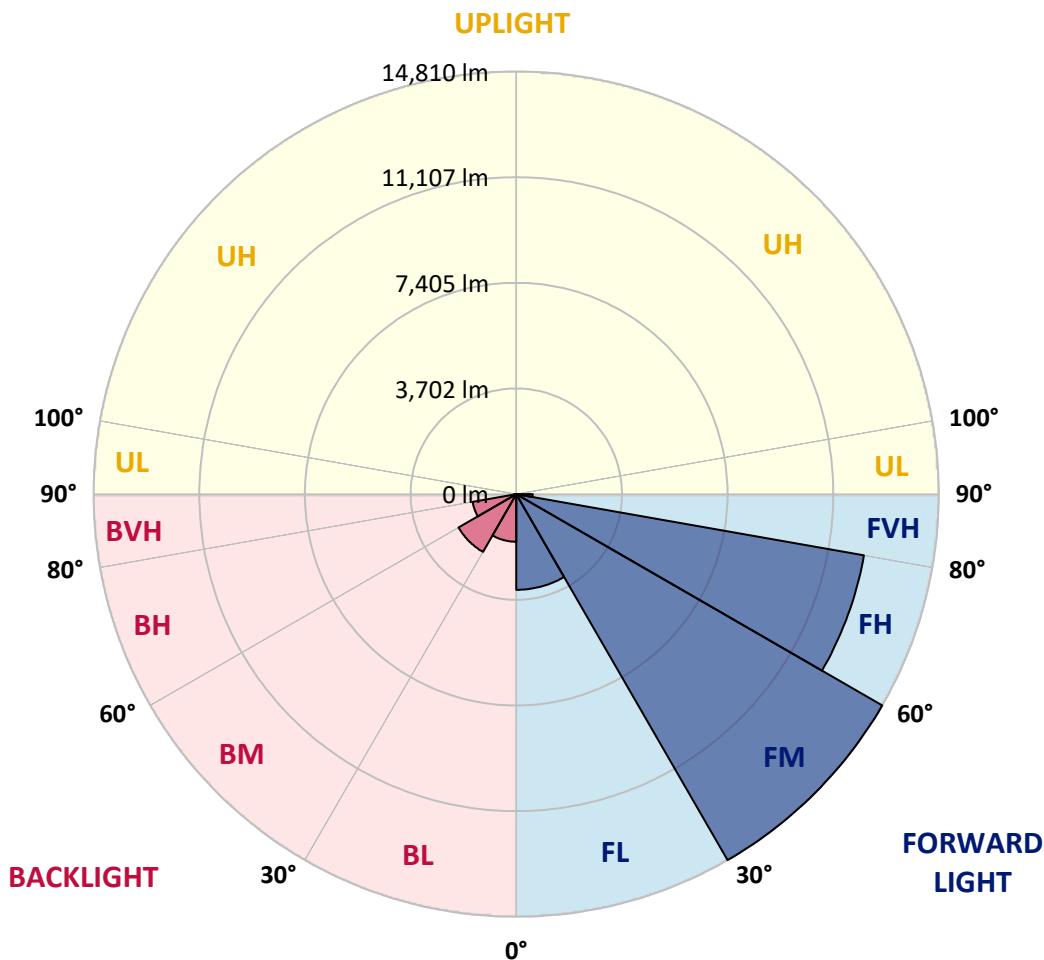
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3353.2	9.1			
FM (30°-60°)	14809.7	40.3			
FH (60°-80°)	12370.7	33.7			G5
FVH (80°-90°)	579.4	1.6			G4/750
BL (0°-30°)	1669.0	4.5	B3/2500		
BM (30°-60°)	2335.8	6.4	B2/2500		
BH (60°-80°)	1554.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	77.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4
2.5°	10378.3	10394.8	10394.8	10427.9	10316.3	10370.0	10361.7	10312.1	10328.7	10241.8	10155.0
5°	10084.7	10072.3	10138.5	10146.7	10233.6	10258.4	10279.0	10246.0	10254.2	10064.0	9981.3
7.5°	9332.2	9328.0	9439.7	9534.8	9716.7	9886.2	9997.9	9964.8	10010.3	9890.4	9696.0
10°	8439.1	8534.2	8649.9	8745.0	9080.0	9295.0	9584.4	9613.3	9787.0	9758.1	9406.6
12.5°	7769.2	7810.6	7897.4	8170.3	8476.3	8831.9	9245.3	9282.6	9452.1	9534.8	9228.8
15°	7219.3	7256.5	7368.2	7570.8	7913.9	8335.7	8860.8	8955.9	9295.0	9323.9	8997.3
17.5°	6818.2	6847.2	6921.6	7124.2	7405.4	7947.0	8443.2	8612.7	9059.3	9199.9	8757.4
20°	6661.1	6599.1	6640.4	6768.6	7049.8	7467.4	8108.3	8257.1	8827.7	9104.8	8530.0
22.5°	6590.8	6537.1	6561.9	6553.6	6776.9	7074.6	7748.6	7905.7	8608.6	8993.1	8327.4
25°	6644.6	6644.6	6619.8	6599.1	6623.9	6818.2	7359.9	7603.8	8315.0	8898.0	8120.7
27.5°	6934.0	6822.4	6834.8	6747.9	6723.1	6723.1	7186.2	7330.9	8219.9	8844.3	7951.2
30°	7120.1	7173.8	7178.0	7049.8	6921.6	6690.1	7025.0	7165.6	8141.4	8910.4	7851.9
32.5°	7595.6	7570.8	7500.5	7475.7	7285.5	7025.0	7103.5	7198.6	8095.9	9059.3	7880.9
35°	8071.1	8058.7	8062.8	8050.4	7851.9	7467.4	7314.4	7442.6	8178.6	9319.8	7980.1
37.5°	8563.1	8596.2	8736.8	8736.8	8525.9	8108.3	7905.7	7868.5	8480.4	9745.7	8215.8
40°	9055.1	9137.8	9315.6	9596.8	9299.1	8910.4	8583.8	8525.9	8844.3	10316.3	8782.3
42.5°	9526.5	9663.0	10014.4	10432.0	10332.8	9944.1	9510.0	9443.8	9592.7	11163.9	9572.0
45°	10130.2	10246.0	10800.0	11440.9	11577.4	11234.2	10725.6	10671.8	10663.6	12404.3	10659.4
47.5°	11048.1	11172.1	11726.2	12371.2	12793.0	12846.7	12276.1	12218.2	12019.8	14078.9	12251.3
50°	12197.6	12400.2	12867.4	13619.9	14231.9	14806.6	14645.4	14475.8	14087.2	16026.4	14269.1
52.5°	13036.9	13285.0	13917.6	14881.0	15960.2	16874.0	17452.9	17452.9	16559.8	18164.0	16696.2
55°	13260.2	13409.1	14207.1	15600.5	17448.7	19760.1	20971.6	20880.6	19503.7	20413.4	19520.2
57.5°	12371.2	12565.6	13533.1	14992.7	18230.2	22460.1	24465.4	24486.1	22720.6	23026.5	22307.1
60°	9923.4	9985.5	11126.7	13078.3	17477.7	24635.0	29237.0	29315.5	26379.8	25354.4	23725.3
62.5°	6859.6	7058.1	7918.1	9629.9	14480.0	24391.0	33839.0	34227.6	29311.4	26582.4	23948.6
65°	4515.2	4635.1	5094.0	6136.0	10080.6	21141.1	35269.6	36468.7	31552.4	26652.7	23014.1
67.5°	3274.7	3295.4	3431.9	3969.4	6057.4	15203.5	32825.9	34517.1	32391.8	26065.6	20822.7
70°	2646.3	2662.8	2712.4	3055.6	3911.5	9514.1	26772.6	29423.0	29873.7	23282.9	16770.6
72.5°	2150.1	2170.8	2232.8	2555.3	3225.1	5292.5	19578.1	22807.4	24300.0	17225.5	11147.3
75°	1691.1	1707.7	1856.5	2174.9	3030.8	3634.5	12987.3	16150.4	16353.0	10068.2	5218.1
77.5°	1157.7	1186.7	1368.6	1844.1	2853.0	3179.6	8095.9	10345.2	9282.6	3940.4	1794.5
80°	736.0	777.3	884.8	1397.6	2522.2	3034.9	5036.1	6177.3	4064.5	1347.9	864.2
82.5°	434.2	475.5	583.0	905.5	1980.6	2815.8	3547.6	3866.0	1906.1	690.5	521.0
85°	239.8	268.8	351.5	545.8	1161.9	2501.5	2840.6	2774.4	1091.6	368.0	326.6
87.5°	78.6	91.0	128.2	219.1	479.6	1178.4	1703.5	1600.2	566.5	169.5	128.2
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°	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4	10105.4
2.5°	10097.1	10084.7	9898.6	9758.1	9518.2	9319.8	9241.2	9133.7	9129.6	9051.0	9030.3
5°	9853.2	9725.0	9439.7	9166.8	8740.9	8455.6	8195.1	8013.2	7938.8	7777.5	7740.3
7.5°	9538.9	9369.4	8931.1	8418.4	7918.1	7471.5	7066.3	6661.1	6433.7	6355.1	6268.3
10°	9212.3	8914.6	8265.4	7690.7	6991.9	6305.5	5668.8	5098.2	4788.1	4568.9	4473.8
12.5°	8951.8	8554.8	7727.9	6867.9	5945.8	5027.9	4287.8	3688.2	3336.8	3171.4	3096.9
15°	8658.2	8133.1	7140.7	6053.3	4903.8	3861.9	3138.3	2666.9	2526.3	2447.8	2435.4
17.5°	8348.1	7740.3	6504.0	5251.2	3886.7	2906.7	2439.5	2249.3	2187.3	2154.2	2137.7
20°	8058.7	7388.8	5850.7	4358.0	3043.2	2332.0	2112.9	2013.6	2009.5	2026.0	2021.9
22.5°	7649.3	6929.9	5205.7	3531.1	2431.2	2030.2	1889.6	1864.8	1889.6	1910.3	1918.5
25°	7417.8	6553.6	4486.2	2803.4	2009.5	1802.8	1757.3	1749.0	1786.2	1811.0	1806.9
27.5°	7178.0	6164.9	3816.4	2245.2	1761.4	1641.5	1633.2	1641.5	1678.7	1715.9	1711.8
30°	6991.9	5854.8	3187.9	1877.2	1571.2	1525.7	1517.5	1525.7	1546.4	1550.5	1550.5
32.5°	6838.9	5486.8	2654.5	1629.1	1455.4	1418.2	1426.5	1422.4	1426.5	1430.6	1434.8
35°	6747.9	5267.7	2216.2	1476.1	1360.3	1331.4	1327.3	1314.9	1319.0	1323.1	1319.0
37.5°	6942.3	5160.2	1868.9	1368.6	1294.2	1269.4	1261.1	1252.8	1240.4	1240.4	1240.4
40°	7235.8	5102.3	1658.0	1298.3	1244.6	1215.6	1190.8	1182.5	1182.5	1186.7	1190.8
42.5°	7818.8	5197.4	1513.3	1244.6	1182.5	1149.5	1124.7	1128.8	1141.2	1153.6	1145.3
45°	8662.3	5486.8	1447.2	1203.2	1145.3	1099.8	1083.3	1079.2	1091.6	1112.3	1128.8
47.5°	9766.3	5937.5	1422.4	1166.0	1120.5	1058.5	1037.8	1050.2	1066.8	1095.7	1083.3
50°	11573.2	6950.5	1443.0	1132.9	1083.3	1037.8	1013.0	1000.6	1013.0	1033.7	1042.0
52.5°	13934.2	8790.5	1521.6	1116.4	1058.5	1021.3	979.9	959.3	971.7	988.2	988.2
55°	16758.2	11304.5	1740.7	1095.7	1017.2	996.5	951.0	909.6	917.9	917.9	913.8
57.5°	19247.4	13202.3	2001.2	1066.8	992.3	963.4	905.5	855.9	847.6	851.8	855.9
60°	20363.7	13706.8	2125.3	1058.5	992.3	922.1	843.5	793.9	781.5	773.2	773.2
62.5°	20169.4	12834.3	1873.1	1021.3	1017.2	889.0	785.6	731.9	715.3	698.8	702.9
65°	18995.1	11589.8	1476.1	971.7	1021.3	868.3	727.7	674.0	645.0	624.4	620.2
67.5°	16849.2	9894.5	1170.1	934.5	979.9	831.1	678.1	616.1	591.3	570.6	562.3
70°	13181.6	7756.8	1017.2	884.8	880.7	740.1	620.2	566.5	529.3	504.4	504.4
72.5°	8546.6	4903.8	872.4	785.6	760.8	620.2	537.5	504.4	475.5	454.8	454.8
75°	3870.1	2278.3	702.9	657.4	620.2	496.2	454.8	438.3	413.5	392.8	392.8
77.5°	1389.3	971.7	525.1	516.8	463.1	384.5	368.0	355.6	339.1	318.4	318.4
80°	777.3	616.1	392.8	376.3	322.5	285.3	264.6	264.6	256.4	244.0	239.8
82.5°	492.0	401.1	289.4	252.2	210.9	190.2	181.9	177.8	173.7	157.1	153.0
85°	310.1	272.9	190.2	148.9	124.0	95.1	91.0	86.8	78.6	70.3	70.3
87.5°	140.6	157.1	74.4	45.5	33.1	20.7	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)