

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: P480879

Luminaire Tested: **IFLD-L-SA8C-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480879
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

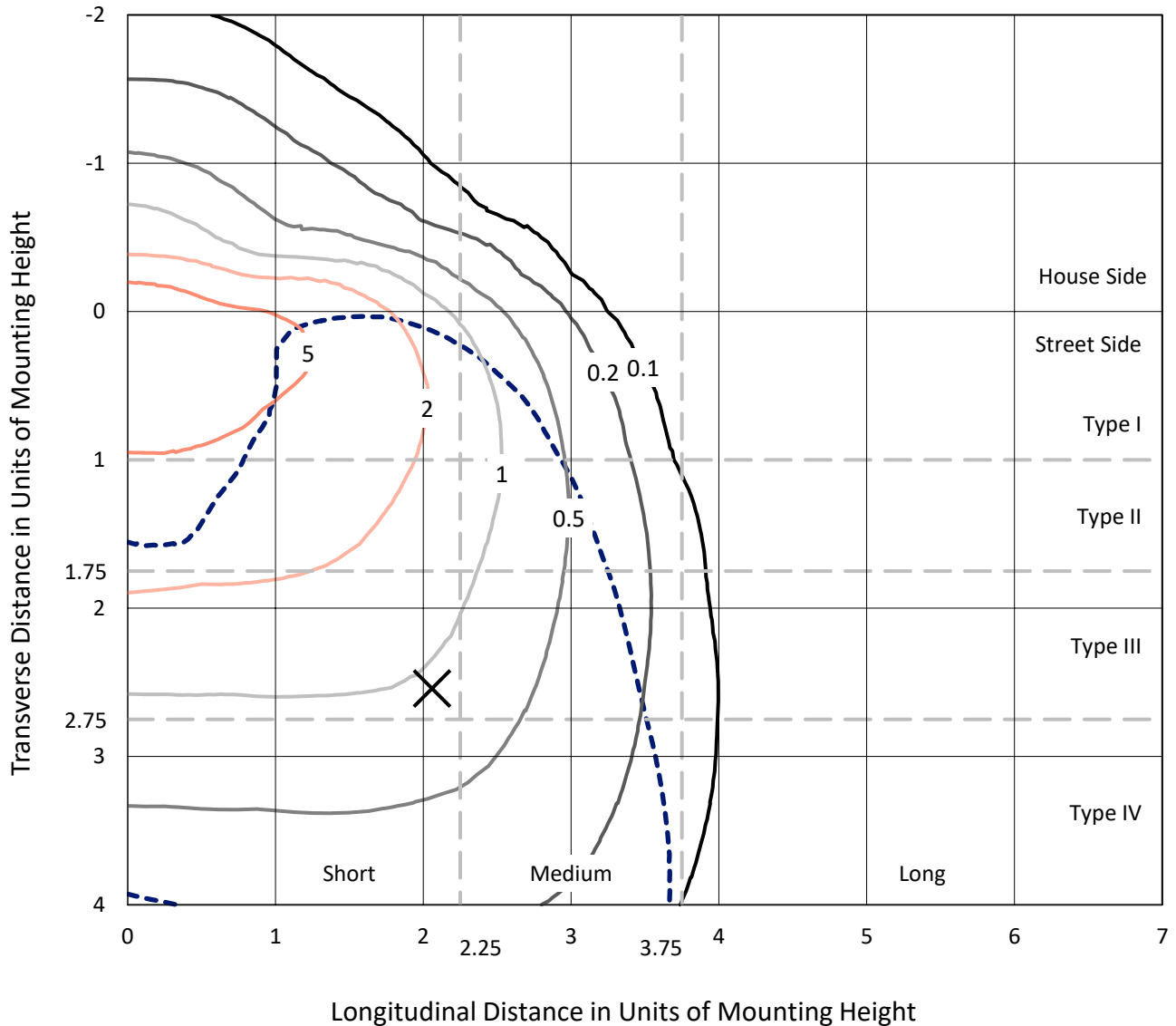
Lumens per Lamp: N/A
Luminaire Lumens: 48334.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

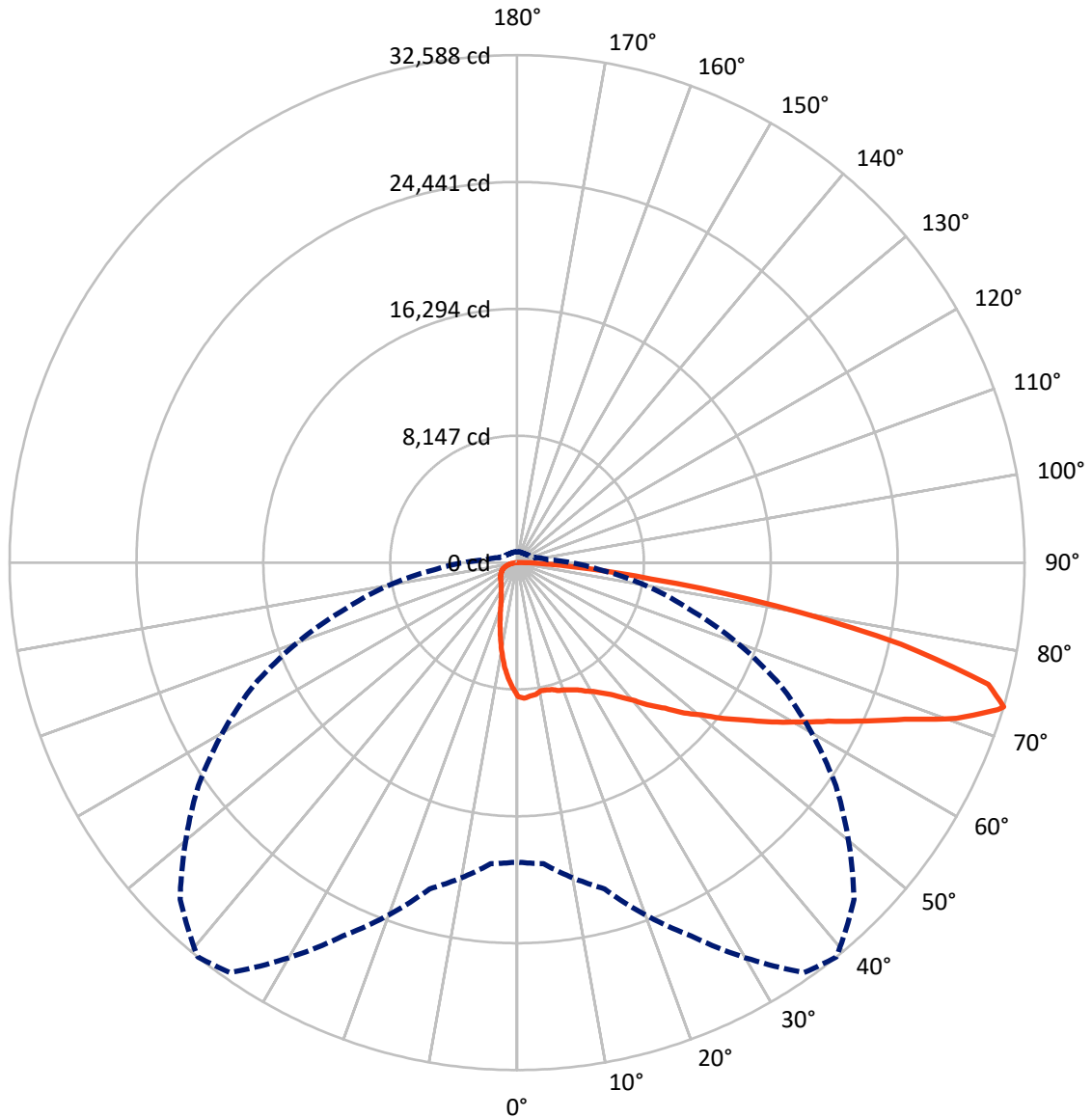
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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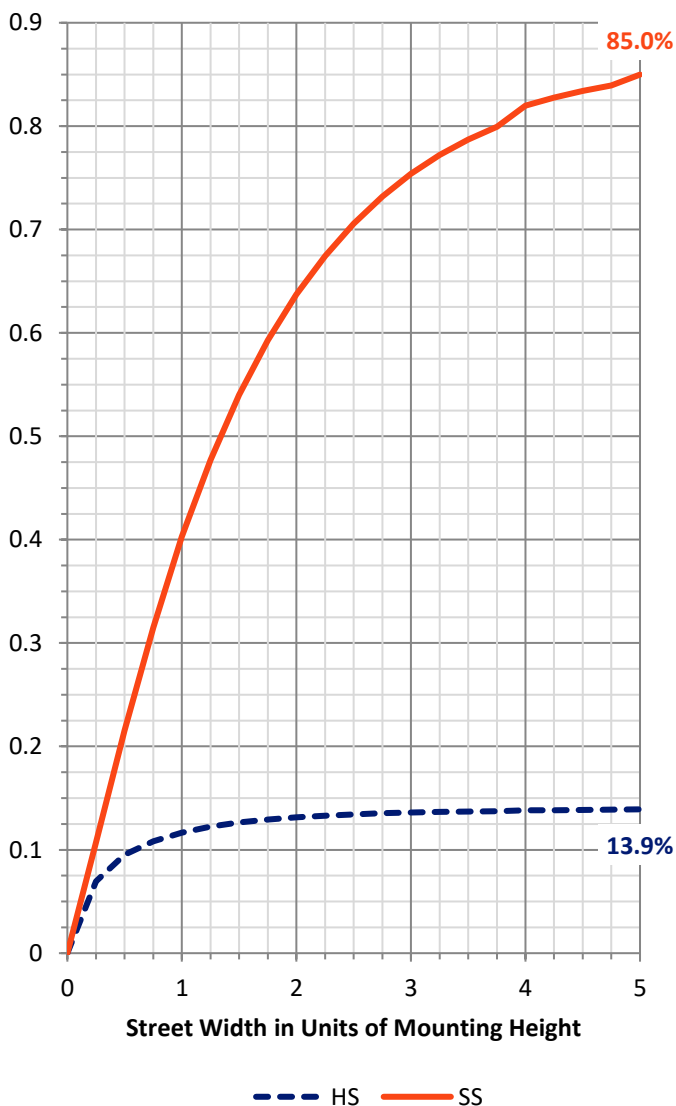
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6794.5	0.0	6794.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	41540.3	0.0	41540.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	48334.9	0.0	48334.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.9	1.5
10°-20°	1898.7	3.9
20°-30°	2901.4	6.0
30°-40°	4230.3	8.8
40°-50°	6392.5	13.2
50°-60°	9256.7	19.2
60°-70°	11761.1	24.3
70°-80°	9534.2	19.7
80°-90°	1613.1	3.3
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°	48334.9	100.0
0°-180°	48334.9	100.0

Coefficient of Utilization



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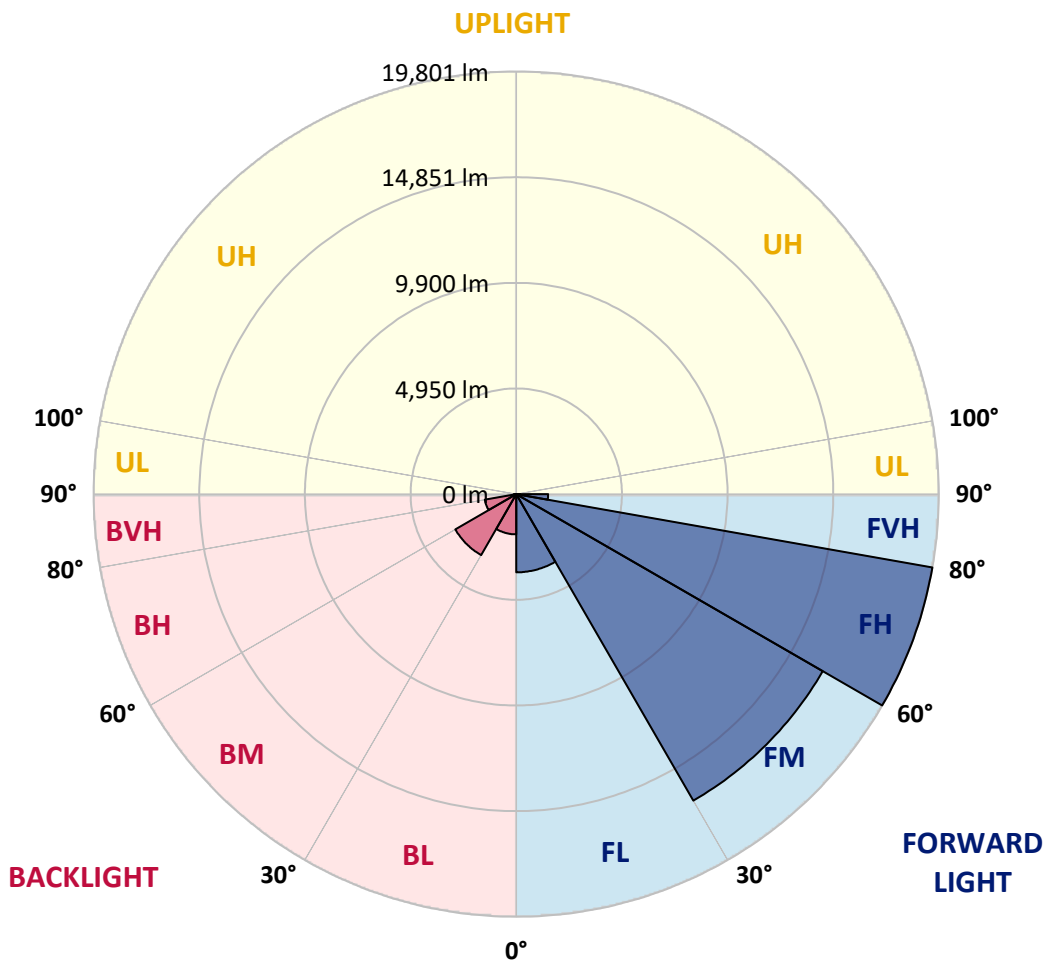
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3662.7	7.6			
FM (30°-60°)	16582.0	34.3			
FH (60°-80°)	19800.9	41.0			G5
FVH (80°-90°)	1494.8	3.1			G5
BL (0°-30°)	1884.3	3.9	B3/2500		
BM (30°-60°)	3297.5	6.8	B3/5000		
BH (60°-80°)	1494.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	118.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9
2.5°	8809.4	8717.5	8733.7	8701.2	8733.7	8722.9	8706.6	8625.5	8706.6	8625.5	8603.9
5°	8690.4	8690.4	8744.5	8663.4	8674.2	8620.1	8674.2	8614.7	8560.6	8425.4	8387.6
7.5°	8652.6	8647.2	8652.6	8539.0	8593.1	8560.6	8506.6	8441.7	8333.5	8247.0	8122.6
10°	8393.0	8447.1	8387.6	8420.0	8463.3	8366.0	8360.5	8344.3	8295.7	8182.1	8106.4
12.5°	8252.4	8344.3	8376.8	8349.7	8387.6	8398.4	8366.0	8344.3	8284.8	8209.1	7992.8
15°	8311.9	8203.7	8295.7	8474.1	8436.3	8463.3	8468.7	8447.1	8420.0	8279.4	8138.8
17.5°	8328.1	8263.2	8457.9	8495.7	8544.4	8641.8	8576.9	8571.5	8468.7	8371.4	8165.9
20°	8366.0	8338.9	8495.7	8695.8	8701.2	8717.5	8749.9	8668.8	8614.7	8447.1	8133.4
22.5°	8506.6	8598.5	8744.5	8831.0	8879.7	8890.5	8890.5	8728.3	8668.8	8533.6	8284.8
25°	8928.4	8831.0	9036.5	9139.3	9069.0	9052.8	9014.9	8868.9	8804.0	8685.0	8355.1
27.5°	9236.6	9231.2	9350.2	9490.8	9301.5	9339.4	9204.2	9160.9	9014.9	8950.0	8479.5
30°	9658.4	9777.4	9772.0	9815.3	9566.5	9609.8	9436.7	9355.6	9274.5	9312.3	8847.3
32.5°	10199.2	10156.0	10226.3	10193.8	9945.0	9982.9	9777.4	9653.0	9680.1	9793.6	9350.2
35°	10545.3	10502.1	10529.1	10529.1	10453.4	10410.1	10323.6	10161.4	10291.2	10502.1	9912.6
37.5°	10918.5	10972.5	11129.4	11096.9	10999.6	10999.6	10988.8	10875.2	11042.8	11562.0	10810.3
40°	11248.3	11394.4	11491.7	11556.6	11670.2	11670.2	11762.1	11697.2	12000.0	12832.8	11908.1
42.5°	11594.4	11599.9	12129.8	12178.5	12432.7	12540.8	12611.1	12665.2	13233.0	14163.2	13081.6
45°	12037.9	12064.9	12530.0	12903.1	13297.9	13335.8	13600.8	13779.2	14476.8	15617.9	14357.9
47.5°	12621.9	12589.5	13087.0	13681.9	14174.0	14433.6	14752.6	14947.3	15807.2	17197.0	15753.1
50°	13389.9	13292.5	13579.1	14514.7	15093.3	15379.9	15947.8	16272.2	17278.1	18705.8	16710.3
52.5°	14325.4	14163.2	14390.3	15412.4	16061.3	16640.0	17180.8	17543.1	18592.2	19873.9	17418.7
55°	15315.0	14979.8	15044.7	16364.2	17299.7	17845.9	18586.8	18965.4	20036.1	20923.0	18127.1
57.5°	16293.9	16083.0	15953.2	17278.1	18776.1	19300.6	19982.0	20474.1	21382.7	21853.1	18727.4
60°	17115.9	17061.8	16850.9	18695.0	20338.9	20787.8	21501.6	21804.5	22491.3	22713.0	18738.2
62.5°	17791.8	17608.0	17943.3	19836.0	21928.9	22437.2	23221.3	23248.4	23735.1	23248.4	18186.6
65°	18321.8	18332.6	18868.0	21215.0	23767.5	24519.2	25151.9	25081.6	24768.0	22929.3	16883.3
67.5°	18803.1	19008.6	19792.8	22729.2	26130.8	26839.2	27542.2	26612.1	25049.2	21436.7	14336.2
70°	19181.7	19387.2	21042.0	24573.3	28915.8	29954.1	30110.9	27217.7	23756.7	18159.6	10815.7
72.5°	19138.4	19511.5	21750.4	26044.2	31387.2	32284.9	31019.5	25514.3	19792.8	12659.8	6311.0
73°	19230.3	19414.2	21690.9	26455.2	32138.9	32587.7	30597.7	24978.9	18667.9	11356.5	5337.6
75°	17456.6	18078.5	20614.7	25784.7	31333.1	31252.0	28174.9	20814.8	13270.9	5964.9	2585.0
77.5°	12914.0	13308.7	16245.2	21204.2	25719.8	25200.6	21252.9	13303.3	6300.2	2211.8	1395.2
80°	6311.0	6619.2	8609.3	12243.4	16818.4	16861.7	13189.8	6922.1	2698.5	1249.2	951.8
82.5°	3152.8	3336.6	4137.0	5380.8	8274.0	8668.8	6689.5	3936.9	1671.0	708.4	540.8
85°	2060.4	2190.2	2547.1	2633.6	3509.7	3704.4	3114.9	3071.7	1087.0	384.0	438.0
87.5°	1368.2	1389.8	1562.9	1330.3	1406.0	1352.0	1503.4	1936.0	319.1	162.2	119.0
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°	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9	8603.9
2.5°	8576.9	8501.2	8420.0	8306.5	8225.3	8101.0	7987.4	7938.7	7927.9	7933.3	7879.2
5°	8355.1	8247.0	8084.7	7852.2	7717.0	7511.5	7338.5	7246.5	7149.2	7165.4	7122.1
7.5°	8046.9	7927.9	7679.2	7408.8	7073.5	6781.5	6619.2	6392.1	6262.3	6165.0	6219.0
10°	7949.5	7744.1	7370.9	6997.8	6478.6	6094.7	5721.5	5461.9	5283.5	5110.4	5186.1
12.5°	7900.9	7695.4	7176.2	6624.6	5954.0	5370.0	4845.4	4526.4	4272.2	4120.8	4180.3
15°	7857.6	7603.4	6992.4	6213.6	5461.9	4694.0	4104.6	3682.8	3439.4	3293.4	3309.6
17.5°	7917.1	7554.8	6722.0	5813.4	4921.1	4099.2	3444.8	3006.8	2758.0	2666.1	2644.4
20°	7857.6	7500.7	6457.0	5413.3	4380.4	3531.3	2904.0	2541.7	2368.6	2292.9	2276.7
22.5°	7879.2	7370.9	6181.2	4969.8	3877.4	3055.4	2541.7	2265.9	2130.7	2092.8	2103.7
25°	7982.0	7295.2	5905.4	4483.1	3379.9	2703.9	2309.2	2098.2	2000.9	1963.1	1973.9
27.5°	8057.7	7360.1	5656.6	4023.4	2958.1	2390.3	2114.5	1973.9	1909.0	1881.9	1876.5
30°	8247.0	7397.9	5413.3	3612.4	2612.0	2184.8	1979.3	1865.7	1822.4	1806.2	1800.8
32.5°	8528.2	7468.2	5132.1	3233.9	2357.8	1990.1	1871.1	1773.8	1763.0	1746.7	1752.1
35°	8987.9	7711.6	4818.4	2909.4	2114.5	1860.3	1757.6	1692.7	1692.7	1692.7	1708.9
37.5°	9647.6	8052.3	4537.2	2601.2	1957.6	1746.7	1660.2	1638.6	1627.8	1644.0	1654.8
40°	10496.6	8463.3	4310.1	2357.8	1822.4	1671.0	1595.3	1584.5	1579.1	1573.7	1584.5
42.5°	11426.8	8987.9	4115.4	2168.6	1725.1	1589.9	1535.8	1525.0	1503.4	1514.2	1530.4
45°	12351.5	9636.8	3942.3	2017.1	1660.2	1546.6	1470.9	1465.5	1454.7	1449.3	1476.3
47.5°	13379.0	10274.9	3888.2	1925.2	1611.5	1481.8	1427.7	1422.3	1389.8	1384.4	1406.0
50°	14179.4	10745.4	3947.7	1881.9	1541.2	1433.1	1395.2	1368.2	1341.1	1314.1	1314.1
52.5°	14731.0	11069.9	3991.0	1849.5	1503.4	1368.2	1319.5	1308.7	1281.7	1254.6	1243.8
55°	15228.5	11264.6	4001.8	1854.9	1465.5	1292.5	1260.0	1254.6	1238.4	1195.1	1184.3
57.5°	15396.2	11183.4	3785.5	1806.2	1443.9	1243.8	1200.5	1211.4	1189.7	1151.9	1146.5
60°	15379.9	10621.0	3293.4	1741.3	1395.2	1189.7	1135.6	1168.1	1168.1	1124.8	1119.4
62.5°	14444.4	9323.1	2693.1	1616.9	1341.1	1135.6	1076.2	1124.8	1141.1	1114.0	1108.6
65°	12503.0	7592.6	2249.7	1492.6	1260.0	1076.2	1016.7	1070.8	1097.8	1087.0	1081.6
67.5°	10345.2	5808.0	1871.1	1330.3	1157.3	995.0	946.4	984.2	1000.5	1005.9	1011.3
70°	7311.4	3866.6	1562.9	1151.9	1016.7	908.5	854.4	859.8	854.4	870.7	870.7
72.5°	3974.8	2228.0	1270.8	978.8	876.1	789.5	751.7	724.7	724.7	719.2	719.2
73°	3401.5	2000.9	1211.4	951.8	838.2	767.9	724.7	703.0	703.0	697.6	692.2
75°	1909.0	1465.5	1038.3	816.6	724.7	670.6	638.1	605.7	600.3	600.3	600.3
77.5°	1254.6	1141.1	827.4	654.4	584.0	535.4	524.6	492.1	492.1	492.1	486.7
80°	941.0	897.7	638.1	497.5	448.9	411.0	400.2	378.5	373.1	351.5	356.9
82.5°	627.3	708.4	465.1	351.5	302.8	281.2	281.2	275.8	259.6	232.5	232.5
85°	497.5	578.6	335.3	216.3	178.5	151.4	156.8	151.4	146.0	119.0	113.6
87.5°	91.9	232.5	97.3	59.5	43.3	27.0	27.0	16.2	10.8	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)