

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: P480055

Luminaire Tested: **IFLD-L-SA7C-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

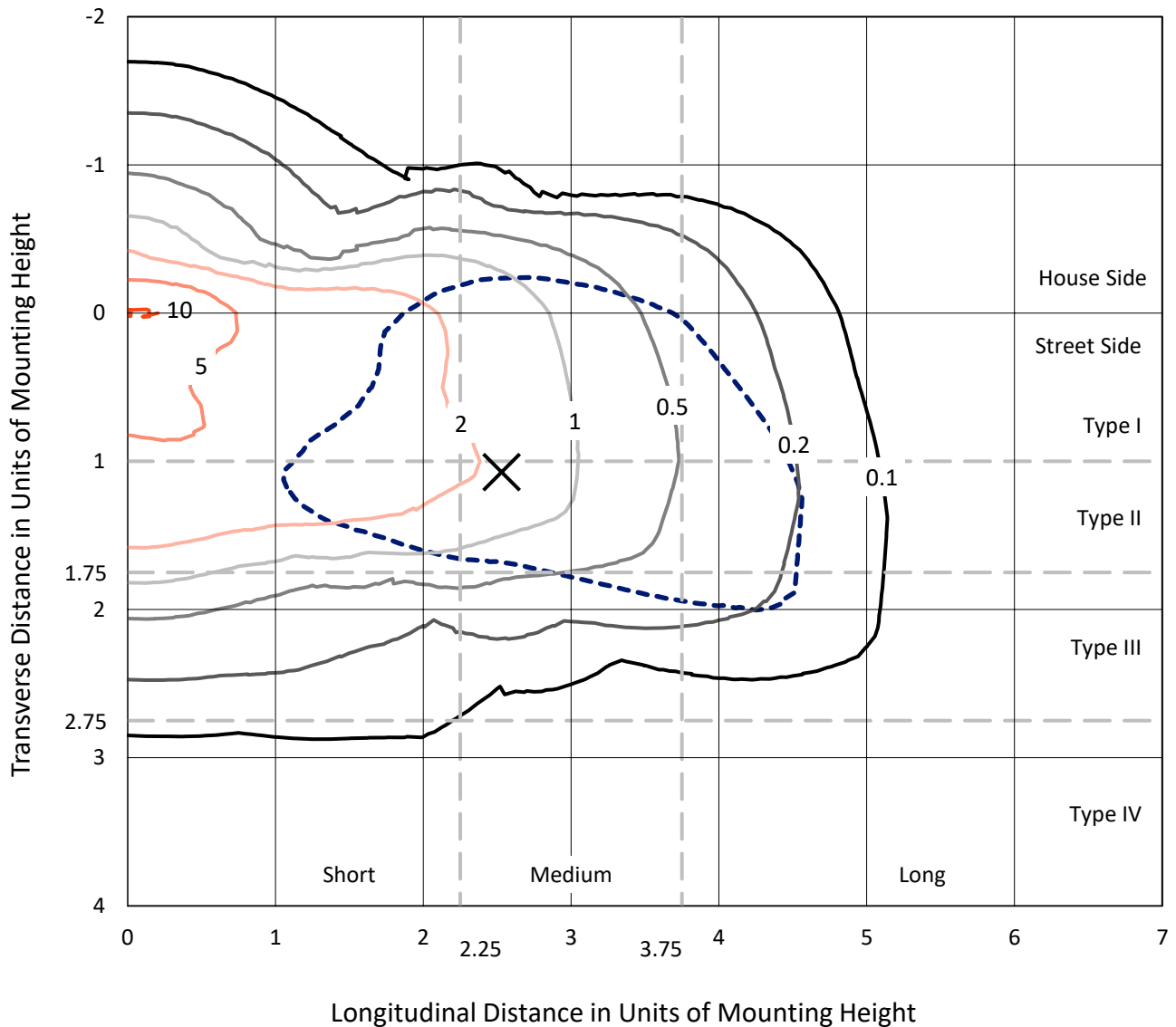
Lumens per Lamp: N/A
Luminaire Lumens: 40248.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

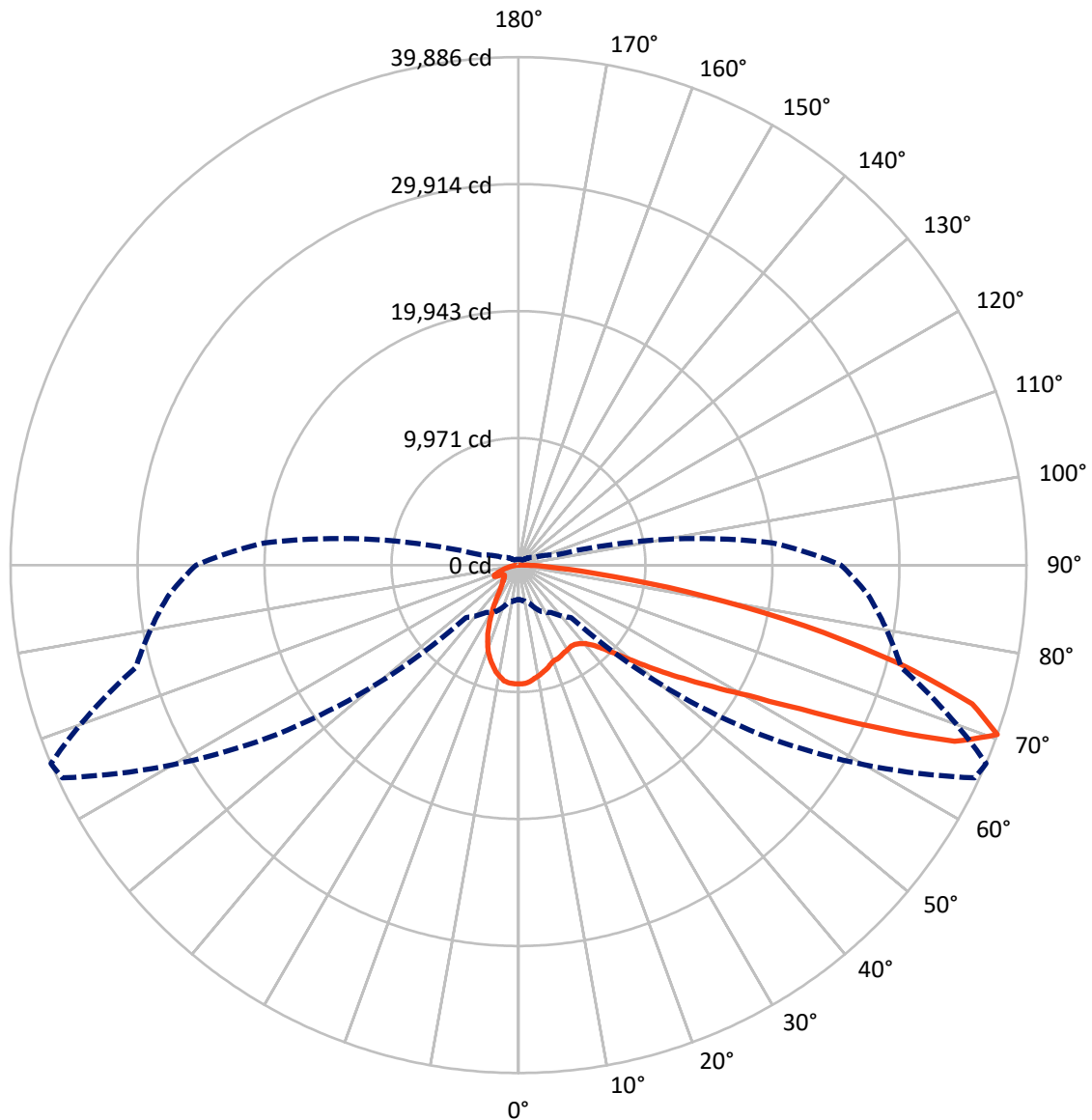
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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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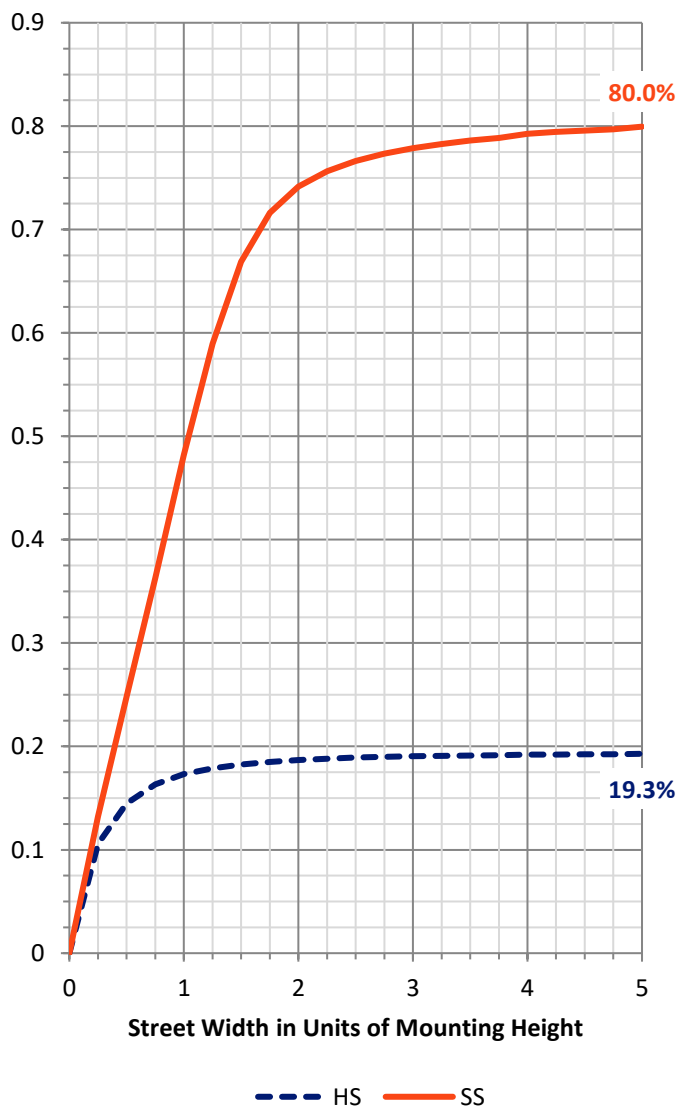
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7838.9	0.0	7838.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32410.1	0.0	32410.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	40248.9	0.0	40248.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.0	2.0
10°-20°	1947.0	4.8
20°-30°	2629.3	6.5
30°-40°	3518.3	8.7
40°-50°	5173.6	12.9
50°-60°	8064.3	20.0
60°-70°	9933.8	24.7
70°-80°	7019.2	17.4
80°-90°	1150.5	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°	40248.9	100.0
0°-180°	40248.9	100.0

Coefficient of Utilization

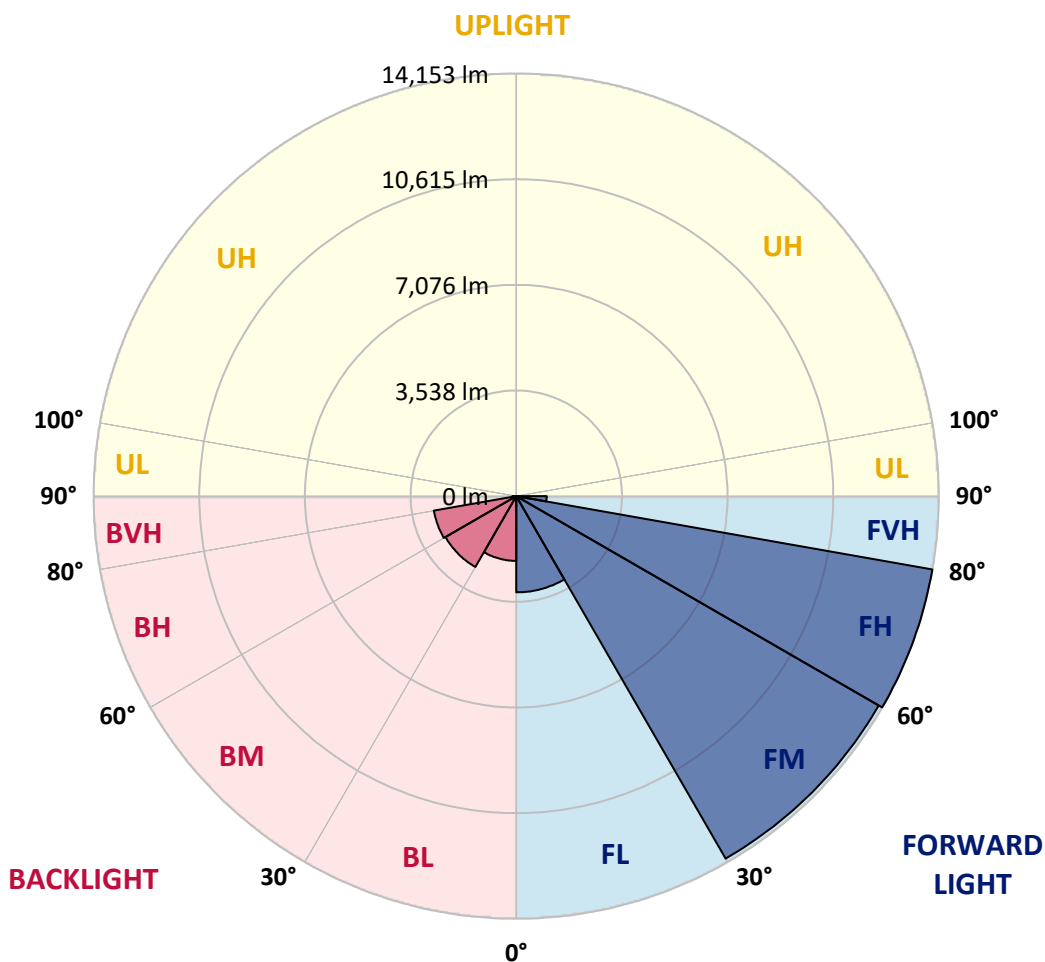


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3221.6	8.0			
FM (30°-60°)	14017.8	34.8			
FH (60°-80°)	14152.9	35.2			G5
FVH (80°-90°)	1017.8	2.5			G5
BL (0°-30°)	2167.7	5.4	B3/2500		
BM (30°-60°)	2738.3	6.8	B3/5000		
BH (60°-80°)	2800.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	132.7	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°	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5
2.5°	8675.8	8773.9	8809.5	8863.0	9001.1	9103.6	9166.0	9237.3	9322.0	9393.2	9437.8
5°	8069.8	8123.3	8208.0	8265.9	8439.7	8715.9	8903.1	9206.1	9197.2	9308.6	9477.9
7.5°	7481.6	7535.1	7575.2	7691.1	7940.6	8190.1	8533.2	9023.4	8987.8	9246.2	9509.1
10°	7116.2	7076.1	7089.5	7285.6	7481.6	7762.4	8194.6	8693.7	8822.9	9223.9	9598.2
12.5°	6773.1	6728.6	6835.5	6960.3	7200.9	7454.9	7971.8	8421.8	8617.9	9143.7	9638.3
15°	6559.2	6528.0	6661.7	6715.2	7000.4	7303.4	7668.8	8216.9	8430.8	9045.7	9575.9
17.5°	6438.9	6465.7	6514.7	6630.5	6813.2	7071.7	7472.7	8078.7	8172.3	8925.4	9562.6
20°	6461.2	6492.4	6496.8	6545.9	6670.6	6871.2	7281.1	7931.7	7994.1	8903.1	9598.2
22.5°	6639.4	6594.9	6612.7	6581.5	6617.2	6773.1	7134.1	7735.6	7976.2	8715.9	9522.5
25°	6906.8	6844.4	6835.5	6728.6	6661.7	6706.3	7107.3	7686.6	7842.6	8658.0	9518.0
27.5°	7379.1	7285.6	7285.6	7125.1	6853.3	6782.0	7031.6	7606.4	7744.5	8604.5	9415.5
30°	7833.6	7833.6	7838.1	7610.8	7307.8	6955.8	7062.8	7575.2	7664.3	8444.1	9277.4
32.5°	8386.2	8372.8	8350.5	8239.1	7771.3	7245.5	7214.3	7535.1	7579.7	8390.6	9237.3
35°	8925.4	8889.7	9063.5	8965.5	8488.7	7811.4	7370.2	7552.9	7651.0	8310.4	9112.5
37.5°	9330.9	9353.1	9714.1	9776.5	9366.5	8453.0	7811.4	7731.2	7824.7	8426.3	9112.5
40°	9856.7	9945.8	10284.4	10493.9	10244.3	9299.7	8511.0	8029.7	8096.6	8684.7	9308.6
42.5°	10547.4	10623.1	11055.3	11327.2	11255.9	10378.0	9201.6	8653.6	8600.1	9117.0	9602.7
45°	11460.8	11474.2	11910.9	12285.2	12432.2	11505.4	10297.8	9442.3	9397.7	9861.1	10141.9
47.5°	12548.1	12534.7	12806.5	13207.6	13604.2	12851.1	11558.9	10640.9	10480.5	10926.1	11037.5
50°	13599.7	13541.8	13604.2	14116.6	14878.6	14535.5	13091.7	12107.0	11946.5	12191.6	12383.2
52.5°	14179.0	14250.3	14081.0	14758.3	16233.2	16527.3	15123.7	13858.2	13720.0	13840.3	14174.5
55°	13773.5	13920.5	13809.1	14450.8	16825.9	18955.8	17752.7	15885.6	15707.4	15662.8	16210.9
57.5°	12049.0	12316.4	12338.7	13354.6	16620.9	20836.3	21451.2	18278.5	18011.2	17556.6	18122.6
60°	9250.7	9518.0	9723.0	10926.1	14865.2	21959.2	25737.9	21682.9	20800.6	19624.2	19962.9
62.5°	6483.5	6666.2	6871.2	7610.8	11460.8	21299.7	29445.2	26477.5	24851.1	21803.2	22226.5
65°	4723.4	4866.0	5075.4	5512.1	7040.5	17623.5	31165.3	32172.3	30630.5	24574.8	24521.4
67.5°	3555.9	3645.0	3921.3	4620.9	4879.3	10886.0	29382.9	38187.9	36940.2	27653.9	26366.1
70°	2691.4	2767.2	3025.6	3983.7	4558.5	5837.4	23180.1	39529.2	39885.7	31107.3	27604.9
72.5°	1853.7	1938.4	2228.0	3319.7	4340.1	4629.8	14548.8	35910.9	37261.1	32528.8	26277.0
75°	1136.3	1194.2	1363.5	2517.6	4309.0	4527.3	8007.4	29427.4	30857.8	30055.7	22988.5
77.5°	802.1	797.6	828.8	1474.9	3734.1	4554.0	4937.2	21562.6	22952.9	22150.8	15600.5
80°	583.7	588.2	619.4	882.3	2535.5	4629.8	3890.1	14441.9	14856.3	11550.0	6153.7
82.5°	352.0	369.8	445.6	597.1	1524.0	4179.7	3596.0	8025.3	7508.4	3707.4	1693.3
85°	187.2	187.2	262.9	378.8	811.0	3119.2	3462.3	3818.8	3199.4	1149.6	628.3
87.5°	44.6	44.6	75.8	151.5	325.3	1492.8	2361.7	1519.5	1216.5	387.7	258.4
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°	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5	9317.5
2.5°	9420.0	9366.5	9433.4	9299.7	9192.7	9197.2	9032.3	9023.4	9001.1	8885.3	8925.4
5°	9526.9	9482.4	9406.6	9259.6	9023.4	8787.2	8644.6	8461.9	8386.2	8346.1	8363.9
7.5°	9629.4	9549.2	9330.9	9125.9	8760.5	8314.9	8056.4	7811.4	7499.4	7463.8	7401.4
10°	9656.2	9486.8	9206.1	8769.4	8283.7	7789.1	7200.9	6746.4	6505.8	6318.6	6247.3
12.5°	9616.0	9544.8	9005.6	8444.1	7708.9	6933.5	6247.3	5605.6	5160.0	4928.3	4866.0
15°	9611.6	9486.8	8782.8	7949.5	7009.3	5997.8	5021.9	4251.0	3783.1	3591.5	3591.5
17.5°	9616.0	9317.5	8519.9	7450.4	6184.9	4816.9	3743.0	3110.3	2851.8	2825.1	2847.4
20°	9526.9	9192.7	8243.6	6862.2	5151.1	3618.3	2718.2	2459.7	2459.7	2495.4	2508.7
22.5°	9446.7	9005.6	7806.9	6135.9	4099.5	2620.1	2210.2	2134.4	2219.1	2281.5	2308.2
25°	9335.3	8849.6	7361.3	5382.8	3119.2	2112.1	1920.5	1938.4	2018.6	2130.0	2121.1
27.5°	9174.9	8577.8	6831.0	4509.5	2321.6	1822.5	1773.5	1782.4	1867.1	1916.1	1907.2
30°	8992.2	8301.5	6340.9	3640.6	1840.3	1671.0	1666.5	1688.8	1702.2	1728.9	1724.5
32.5°	8760.5	7936.1	5819.5	2829.6	1657.6	1586.3	1568.5	1555.1	1568.5	1564.1	1550.7
35°	8595.6	7740.1	5289.3	2156.7	1555.1	1510.6	1497.2	1474.9	1457.1	1430.4	1425.9
37.5°	8551.1	7544.0	4732.3	1760.1	1474.9	1452.7	1408.1	1368.0	1345.7	1332.3	1323.4
40°	8524.3	7414.8	4188.6	1546.2	1408.1	1385.8	1332.3	1278.9	1256.6	1243.2	1247.7
42.5°	8617.9	7343.5	3636.1	1439.3	1350.2	1310.1	1252.1	1189.8	1185.3	1176.4	1189.8
45°	8947.6	7432.6	3123.7	1363.5	1292.2	1225.4	1149.6	1118.5	1114.0	1105.1	1114.0
47.5°	9696.3	7655.4	2687.0	1314.5	1229.9	1171.9	1091.7	1047.2	1042.7	1038.2	1038.2
50°	10730.0	8341.6	2321.6	1256.6	1189.8	1109.5	1033.8	984.8	975.9	958.0	958.0
52.5°	12352.0	9495.7	2103.2	1225.4	1118.5	1051.6	971.4	917.9	895.7	877.8	877.8
55°	14179.0	10926.1	2063.1	1171.9	1042.7	980.3	909.0	855.6	833.3	811.0	802.1
57.5°	16259.9	12819.9	2348.3	1136.3	989.2	909.0	828.8	779.8	762.0	739.7	730.8
60°	18198.3	14709.3	3235.1	1082.8	940.2	842.2	762.0	713.0	690.7	668.4	668.4
62.5°	20439.7	17048.7	4736.7	1082.8	895.7	770.9	690.7	655.0	641.7	619.4	614.9
65°	23091.0	19468.3	5832.9	1149.6	882.3	708.5	623.8	588.2	574.8	561.5	557.0
67.5°	25109.6	20858.5	5017.5	1327.9	940.2	655.0	557.0	534.7	525.8	512.4	503.5
70°	25323.4	20011.9	3025.6	1434.8	998.1	601.6	499.1	476.8	476.8	463.4	454.5
72.5°	23402.9	17757.2	2036.4	1278.9	904.6	539.2	441.1	423.3	414.4	405.5	401.0
75°	19584.1	15061.3	1608.6	1020.4	695.1	445.6	383.2	365.4	352.0	347.6	338.7
77.5°	13154.1	9789.8	1189.8	797.6	512.4	360.9	320.8	303.0	289.6	285.2	271.8
80°	5053.1	3729.7	766.4	579.3	360.9	285.2	254.0	236.2	227.3	213.9	205.0
82.5°	1488.3	1207.6	427.8	356.5	231.7	196.1	182.7	169.3	156.0	142.6	138.1
85°	614.9	552.5	262.9	187.2	142.6	115.9	106.9	93.6	80.2	71.3	62.4
87.5°	285.2	236.2	120.3	71.3	49.0	26.7	13.4	4.5	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)