

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: P480289

Luminaire Tested: **IFLD-L-SA7C-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480289
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

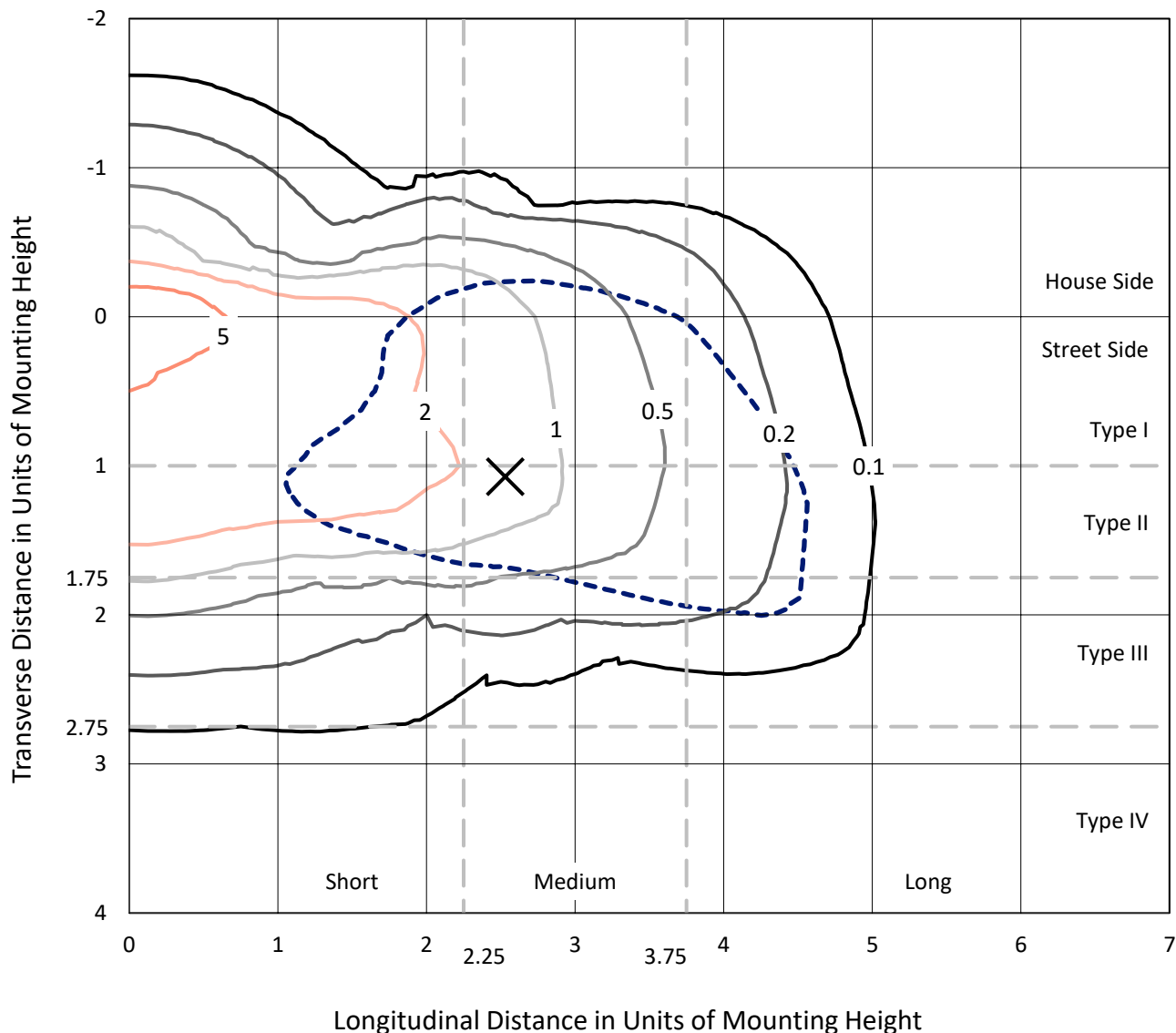
Lumens per Lamp: N/A
Luminaire Lumens: 35121.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

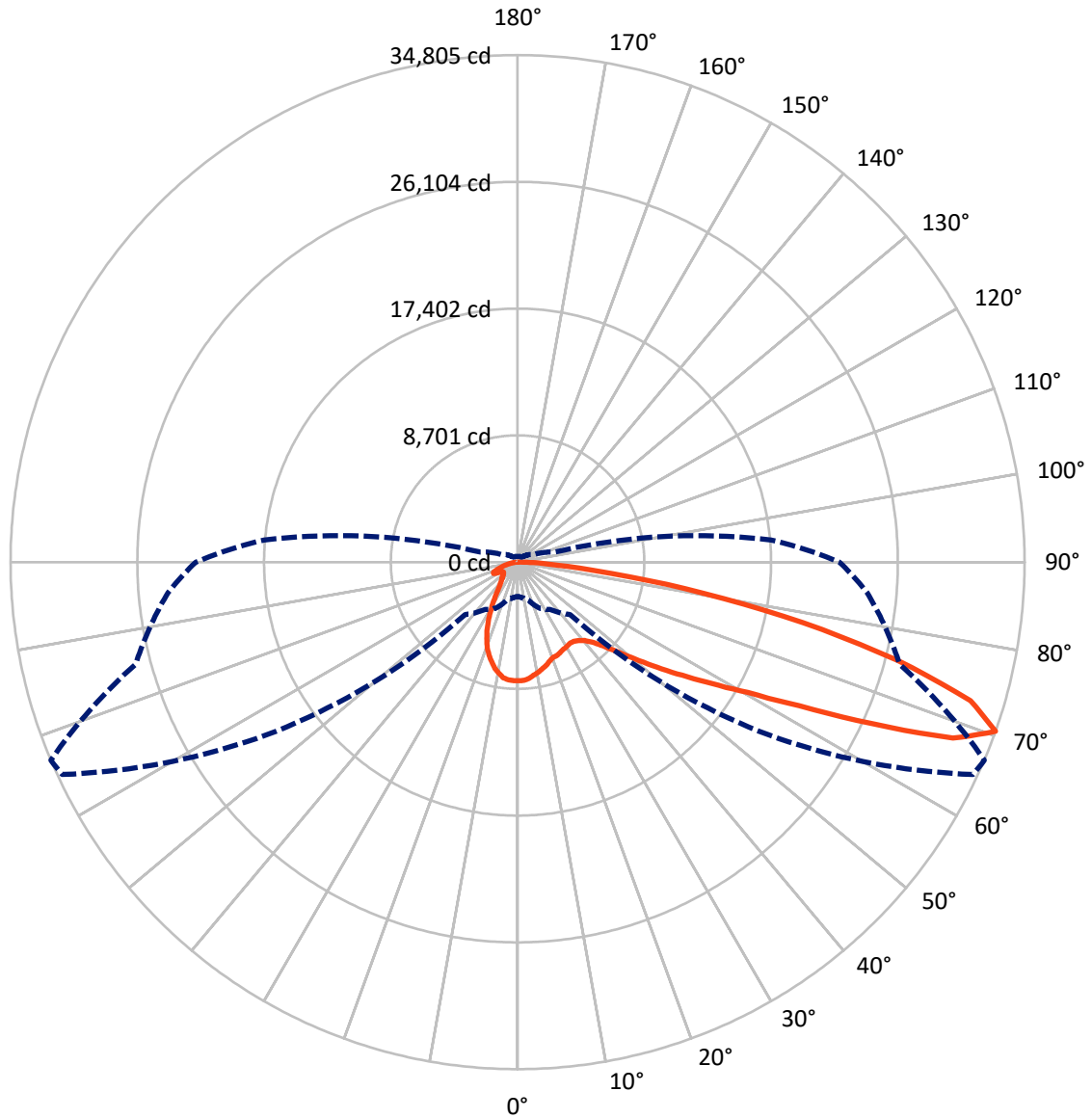
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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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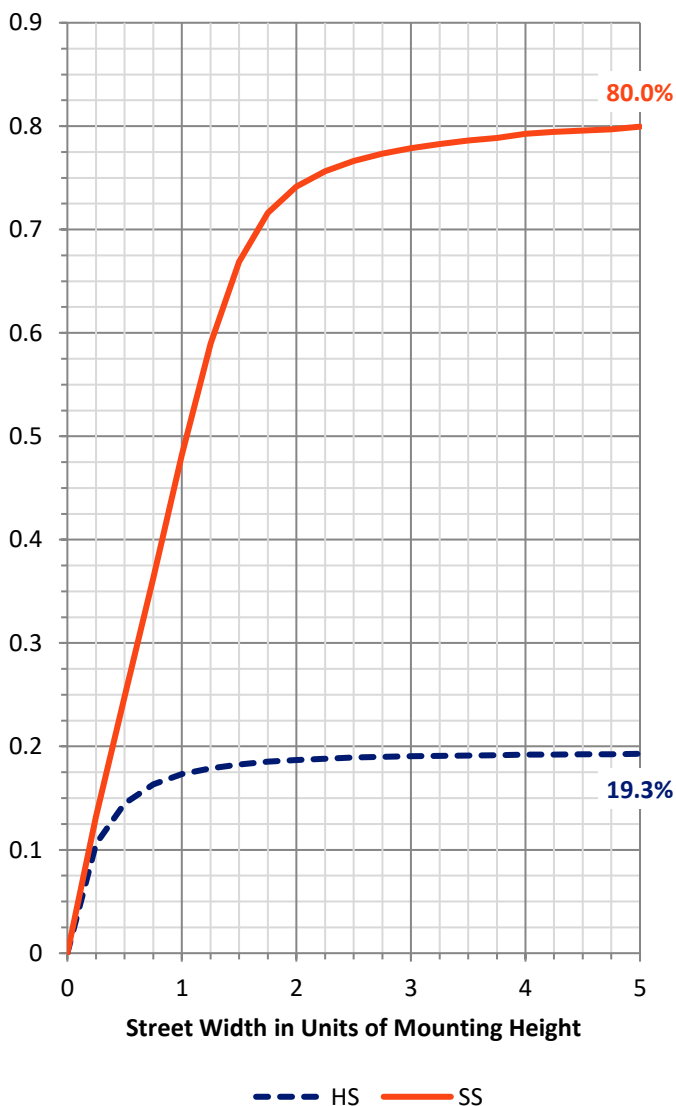
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6840.3	0.0	6840.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	28281.4	0.0	28281.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	35121.7	0.0	35121.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.4	2.0
10°-20°	1699.0	4.8
20°-30°	2294.4	6.5
30°-40°	3070.1	8.7
40°-50°	4514.5	12.9
50°-60°	7037.0	20.0
60°-70°	8668.4	24.7
70°-80°	6125.0	17.4
80°-90°	1003.9	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°	35121.7	100.0
0°-180°	35121.7	100.0

Coefficient of Utilization



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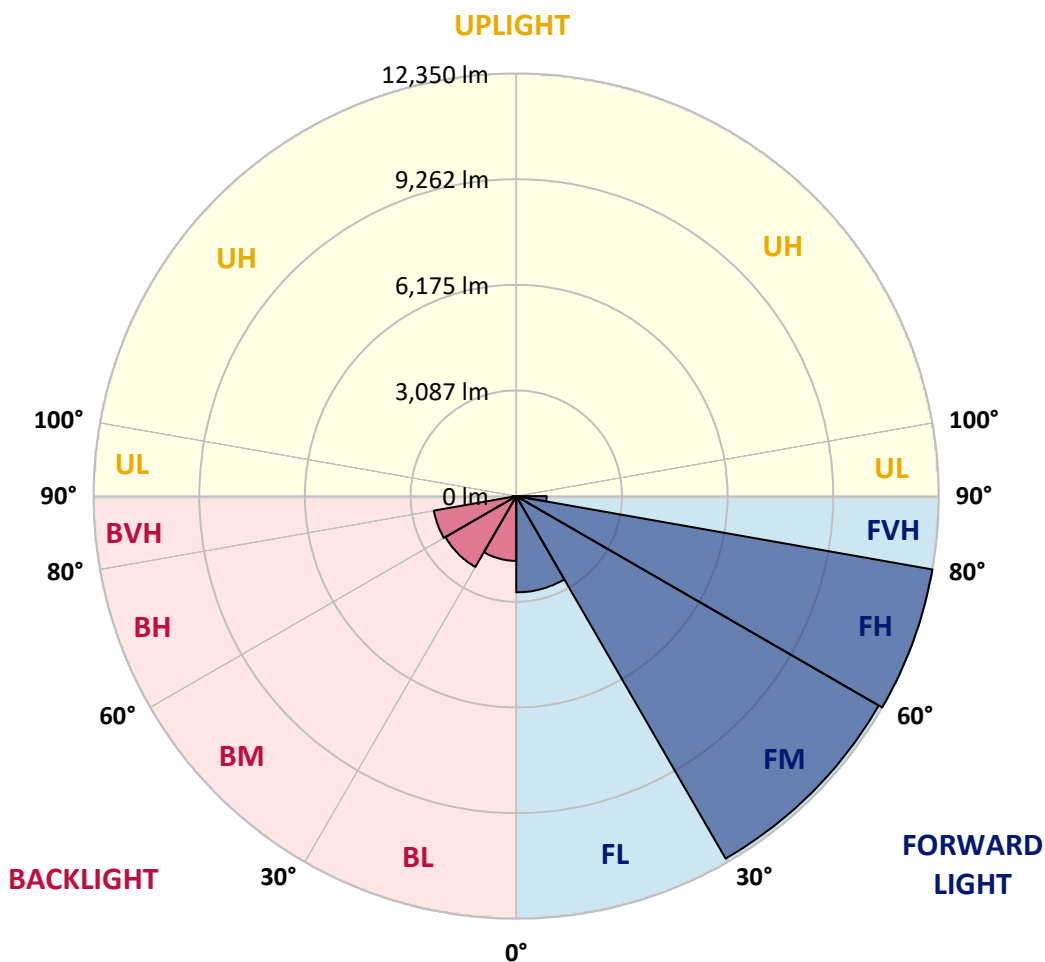
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2811.2	8.0			
FM (30°-60°)	12232.1	34.8			
FH (60°-80°)	12349.9	35.2			G5
FVH (80°-90°)	888.1	2.5			G5
BL (0°-30°)	1891.6	5.4	B3/2500		
BM (30°-60°)	2389.5	6.8	B2/2500		
BH (60°-80°)	2443.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	115.8	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6
2.5°	7570.6	7656.2	7687.3	7733.9	7854.5	7943.9	7998.3	8060.6	8134.4	8196.7	8235.5
5°	7041.8	7088.5	7162.4	7212.9	7364.5	7605.6	7768.9	8033.3	8025.6	8122.8	8270.5
7.5°	6528.6	6575.2	6610.2	6711.3	6929.1	7146.8	7446.2	7873.9	7842.8	8068.3	8297.8
10°	6209.7	6174.7	6186.4	6357.5	6528.6	6773.5	7150.7	7586.2	7698.9	8048.9	8375.5
12.5°	5910.3	5871.4	5964.7	6073.6	6283.6	6505.2	6956.3	7349.0	7520.1	7978.9	8410.5
15°	5723.7	5696.4	5813.1	5859.8	6108.6	6373.0	6691.9	7170.1	7356.8	7893.4	8356.1
17.5°	5618.7	5642.0	5684.8	5785.9	5945.3	6170.8	6520.8	7049.6	7131.2	7788.4	8344.4
20°	5638.1	5665.3	5669.2	5712.0	5820.9	5995.8	6353.6	6921.3	6975.7	7768.9	8375.5
22.5°	5793.7	5754.8	5770.3	5743.1	5774.2	5910.3	6225.3	6750.2	6960.2	7605.6	8309.4
25°	6027.0	5972.5	5964.7	5871.4	5813.1	5852.0	6201.9	6707.4	6843.5	7555.1	8305.5
27.5°	6439.1	6357.5	6357.5	6217.5	5980.3	5918.1	6135.8	6637.4	6758.0	7508.4	8216.1
30°	6835.7	6835.7	6839.6	6641.3	6376.9	6069.7	6163.0	6610.2	6688.0	7368.4	8095.6
32.5°	7317.9	7306.2	7286.8	7189.6	6781.3	6322.5	6295.2	6575.2	6614.1	7321.8	8060.6
35°	7788.4	7757.3	7908.9	7823.4	7407.3	6816.3	6431.3	6590.8	6676.3	7251.8	7951.7
37.5°	8142.2	8161.7	8476.6	8531.1	8173.3	7376.2	6816.3	6746.3	6828.0	7352.9	7951.7
40°	8601.0	8678.8	8974.3	9157.1	8939.3	8115.0	7426.8	7006.8	7065.1	7578.4	8122.8
42.5°	9203.7	9269.8	9647.0	9884.2	9822.0	9056.0	8029.5	7551.2	7504.5	7955.6	8379.4
45°	10000.9	10012.5	10393.6	10720.2	10848.5	10039.7	8986.0	8239.4	8200.5	8604.9	8849.9
47.5°	10949.6	10937.9	11175.1	11525.1	11871.2	11214.0	10086.4	9285.4	9145.4	9534.2	9631.5
50°	11867.3	11816.7	11871.2	12318.3	12983.2	12683.8	11424.0	10564.7	10424.7	10638.5	10805.7
52.5°	12372.7	12435.0	12287.2	12878.2	14165.3	14421.9	13197.1	12092.8	11972.2	12077.2	12368.9
55°	12018.9	12147.2	12050.0	12609.9	14682.4	16541.1	15491.2	13862.0	13706.5	13667.6	14145.8
57.5°	10514.1	10747.4	10766.9	11653.4	14503.6	18182.0	18718.5	15950.0	15716.7	15320.1	15813.9
60°	8072.2	8305.5	8484.4	9534.2	12971.6	19161.8	22459.1	18920.7	18150.8	17124.3	17419.8
62.5°	5657.6	5817.0	5995.8	6641.3	10000.9	18586.3	25694.3	23104.6	21685.4	19025.7	19395.1
65°	4121.7	4246.1	4428.8	4809.9	6143.6	15378.4	27195.2	28073.9	26728.6	21444.3	21397.6
67.5°	3102.9	3180.7	3421.8	4032.2	4257.8	9499.3	25639.8	33323.2	32234.5	24131.1	23007.4
70°	2348.6	2414.7	2640.2	3476.2	3977.8	5093.7	20227.2	34493.6	34804.7	27144.6	24088.4
72.5°	1617.6	1691.4	1944.2	2896.8	3787.3	4040.0	12695.5	31336.3	32514.4	28385.0	22929.6
75°	991.5	1042.1	1189.8	2196.9	3760.0	3950.6	6987.4	25678.7	26926.9	26227.0	20060.0
77.5°	699.9	696.0	723.2	1287.0	3258.4	3973.9	4308.3	18815.8	20028.9	19329.0	13613.1
80°	509.4	513.3	540.5	769.9	2212.5	4040.0	3394.5	12602.2	12963.8	10078.6	5369.8
82.5°	307.2	322.7	388.8	521.0	1329.8	3647.3	3137.9	7002.9	6551.9	3235.1	1477.6
85°	163.3	163.3	229.4	330.5	707.7	2721.8	3021.3	3332.3	2791.8	1003.2	548.3
87.5°	38.9	38.9	66.1	132.2	283.9	1302.6	2060.8	1325.9	1061.5	338.3	225.5
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°	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6	8130.6
2.5°	8220.0	8173.3	8231.7	8115.0	8021.7	8025.6	7881.7	7873.9	7854.5	7753.4	7788.4
5°	8313.3	8274.4	8208.3	8080.0	7873.9	7667.8	7543.4	7384.0	7317.9	7282.9	7298.4
7.5°	8402.7	8332.7	8142.2	7963.4	7644.5	7255.7	7030.1	6816.3	6544.1	6513.0	6458.6
10°	8426.1	8278.3	8033.3	7652.3	7228.5	6796.8	6283.6	5887.0	5677.0	5513.7	5451.5
12.5°	8391.1	8328.9	7858.4	7368.4	6726.9	6050.3	5451.5	4891.6	4502.7	4300.5	4246.1
15°	8387.2	8278.3	7664.0	6936.8	6116.4	5233.7	4382.2	3709.5	3301.2	3134.0	3134.0
17.5°	8391.1	8130.6	7434.5	6501.3	5397.0	4203.3	3266.2	2714.1	2488.5	2465.2	2484.7
20°	8313.3	8021.7	7193.5	5988.1	4494.9	3157.3	2371.9	2146.4	2146.4	2177.5	2189.1
22.5°	8243.3	7858.4	6812.4	5354.3	3577.3	2286.4	1928.6	1862.5	1936.4	1990.8	2014.2
25°	8146.1	7722.3	6423.6	4697.1	2721.8	1843.1	1675.9	1691.4	1761.4	1858.6	1850.9
27.5°	8006.1	7485.1	5960.9	3935.0	2025.8	1590.3	1547.6	1555.3	1629.2	1672.0	1664.2
30°	7846.7	7244.0	5533.1	3176.8	1605.9	1458.1	1454.2	1473.7	1485.4	1508.7	1504.8
32.5°	7644.5	6925.2	5078.2	2469.1	1446.5	1384.3	1368.7	1357.0	1368.7	1364.8	1353.1
35°	7500.6	6754.1	4615.5	1882.0	1357.0	1318.2	1306.5	1287.0	1271.5	1248.2	1244.3
37.5°	7461.8	6583.0	4129.4	1535.9	1287.0	1267.6	1228.7	1193.7	1174.3	1162.6	1154.8
40°	7438.4	6470.2	3655.1	1349.3	1228.7	1209.3	1162.6	1116.0	1096.5	1084.9	1088.7
42.5°	7520.1	6408.0	3172.9	1255.9	1178.2	1143.2	1092.6	1038.2	1034.3	1026.5	1038.2
45°	7807.8	6485.8	2725.7	1189.8	1127.6	1069.3	1003.2	976.0	972.1	964.3	972.1
47.5°	8461.1	6680.2	2344.7	1147.1	1073.2	1022.6	952.6	913.8	909.9	906.0	906.0
50°	9363.2	7279.0	2025.8	1096.5	1038.2	968.2	902.1	859.3	851.6	836.0	836.0
52.5°	10778.5	8286.1	1835.3	1069.3	976.0	917.7	847.7	801.0	781.6	766.0	766.0
55°	12372.7	9534.2	1800.3	1022.6	909.9	855.4	793.2	746.6	727.1	707.7	699.9
57.5°	14188.6	11186.8	2049.2	991.5	863.2	793.2	723.2	680.5	664.9	645.5	637.7
60°	15880.0	12835.5	2822.9	944.9	820.4	734.9	664.9	622.1	602.7	583.3	583.3
62.5°	17835.9	14876.9	4133.3	944.9	781.6	672.7	602.7	571.6	559.9	540.5	536.6
65°	20149.5	16988.2	5089.9	1003.2	769.9	618.2	544.4	513.3	501.6	489.9	486.0
67.5°	21910.9	18201.4	4378.3	1158.7	820.4	571.6	486.0	466.6	458.8	447.2	439.4
70°	22097.5	17462.6	2640.2	1252.1	871.0	524.9	435.5	416.1	416.1	404.4	396.6
72.5°	20421.6	15495.1	1777.0	1116.0	789.3	470.5	384.9	369.4	361.6	353.8	350.0
75°	17089.3	13142.6	1403.7	890.4	606.6	388.8	334.4	318.8	307.2	303.3	295.5
77.5°	11478.4	8542.7	1038.2	696.0	447.2	315.0	280.0	264.4	252.7	248.9	237.2
80°	4409.4	3254.6	668.8	505.5	315.0	248.9	221.6	206.1	198.3	186.6	178.9
82.5°	1298.7	1053.7	373.3	311.1	202.2	171.1	159.4	147.8	136.1	124.4	120.5
85°	536.6	482.2	229.4	163.3	124.4	101.1	93.3	81.7	70.0	62.2	54.4
87.5°	248.9	206.1	105.0	62.2	42.8	23.3	11.7	3.9	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)