

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: P480291

Luminaire Tested: **IFLD-L-SA7E-830-U-SL2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480291
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-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

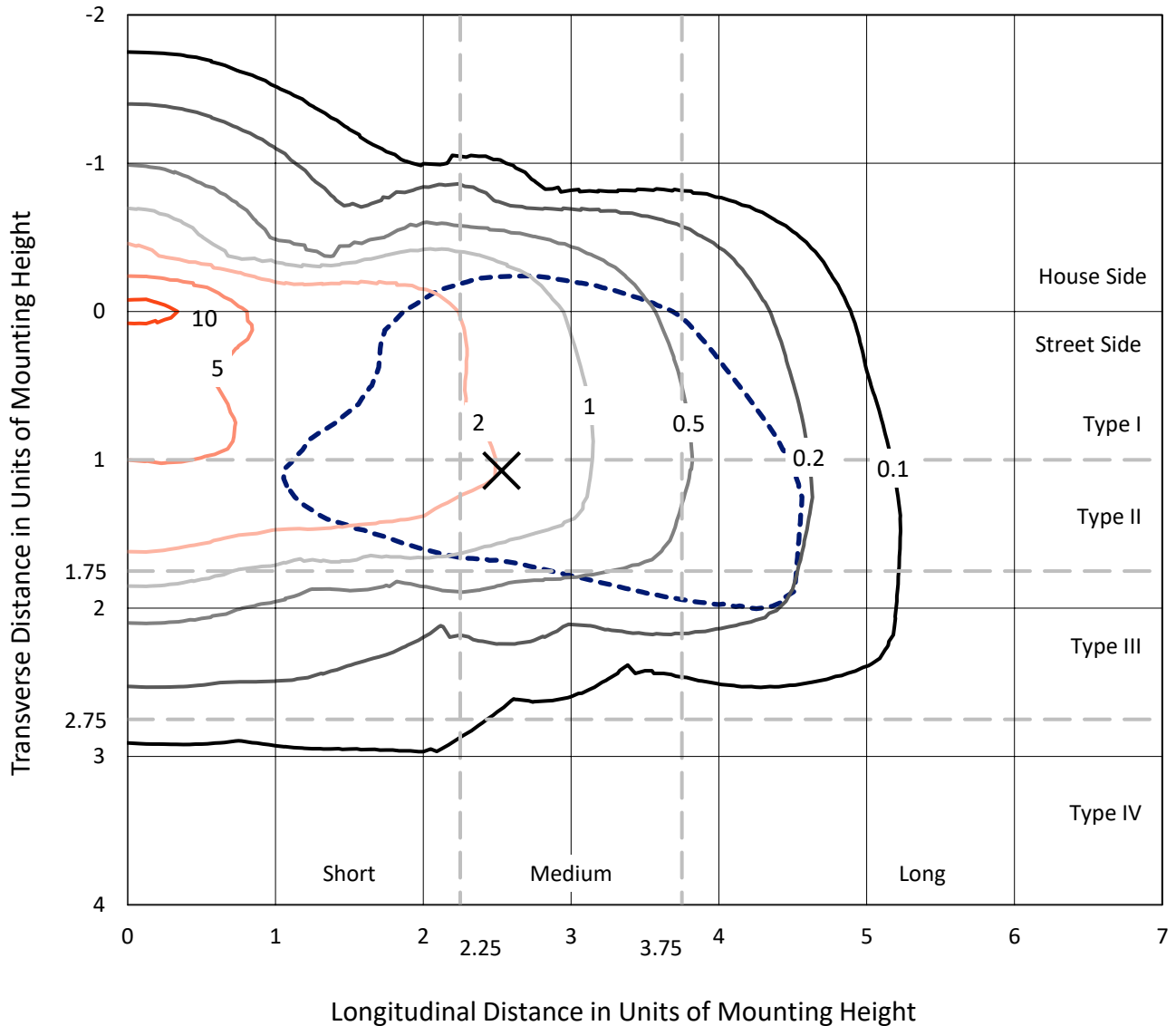
Lumens per Lamp: N/A
Luminaire Lumens: 44724.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

REPORT NUMBER: P480291
 CATALOG NUMBER: IFLD-L-SA7E-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

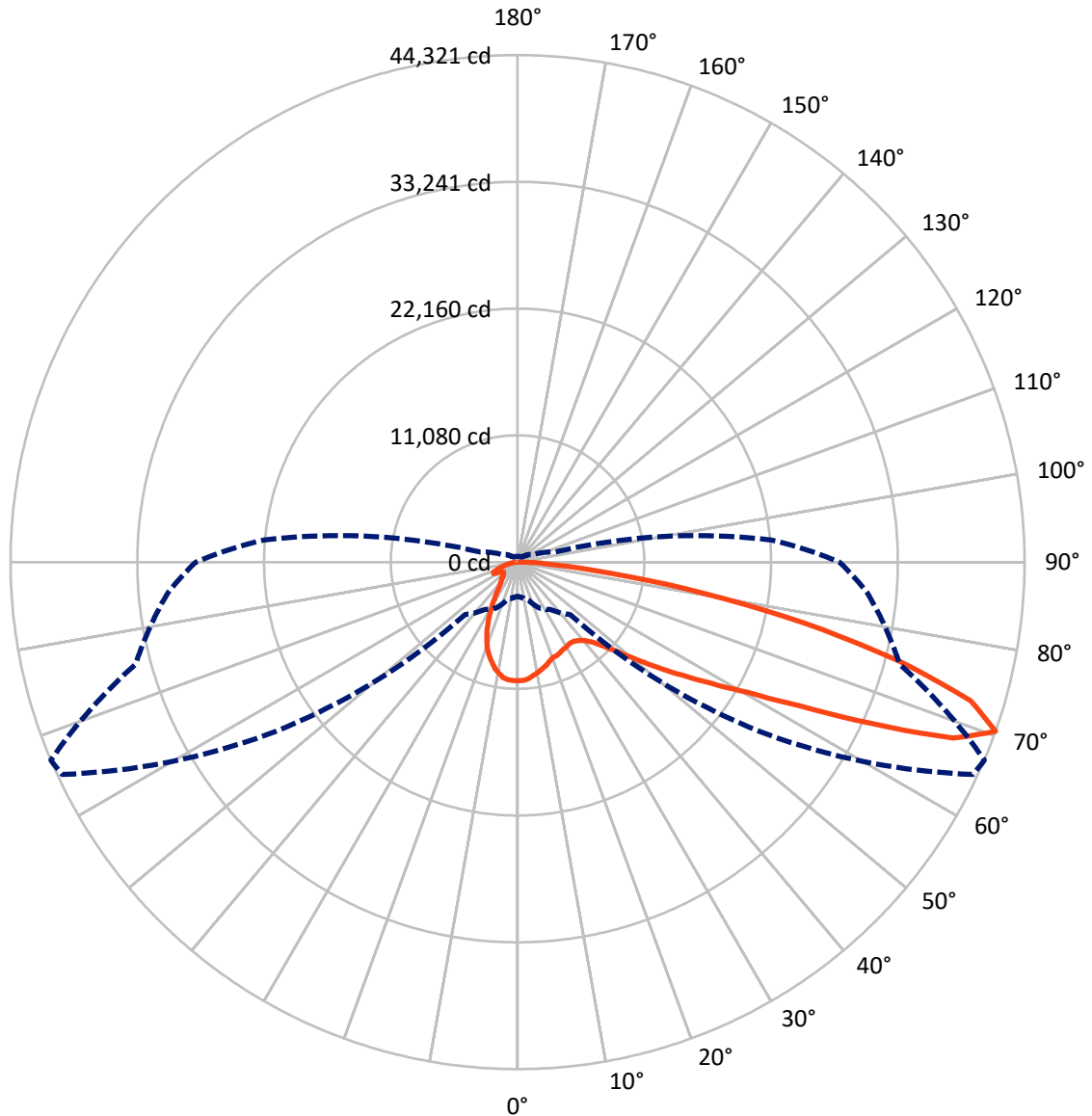
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P480291
CATALOG NUMBER: IFLD-L-SA7E-830-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480291
 CATALOG NUMBER: IFLD-L-SA7E-830-U-SL2

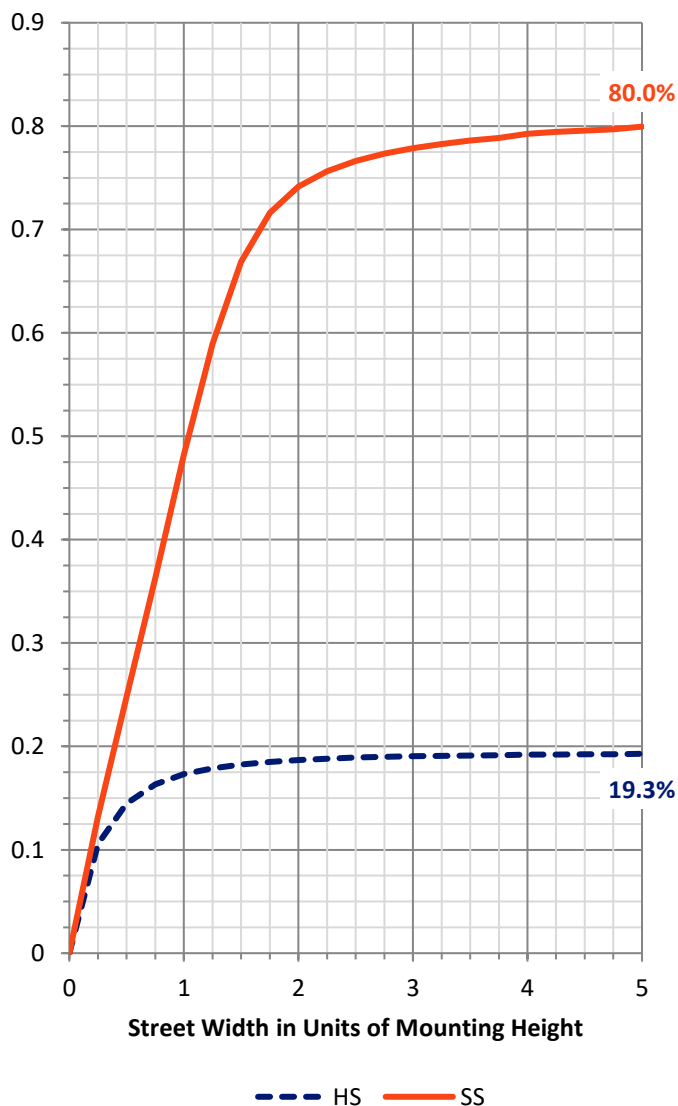
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8710.5	0.0	8710.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	36013.8	0.0	36013.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	44724.3	0.0	44724.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.4	2.0
10°-20°	2163.5	4.8
20°-30°	2921.7	6.5
30°-40°	3909.5	8.7
40°-50°	5748.8	12.9
50°-60°	8961.0	20.0
60°-70°	11038.4	24.7
70°-80°	7799.6	17.4
80°-90°	1278.4	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°	44724.3	100.0
0°-180°	44724.3	100.0

Coefficient of Utilization

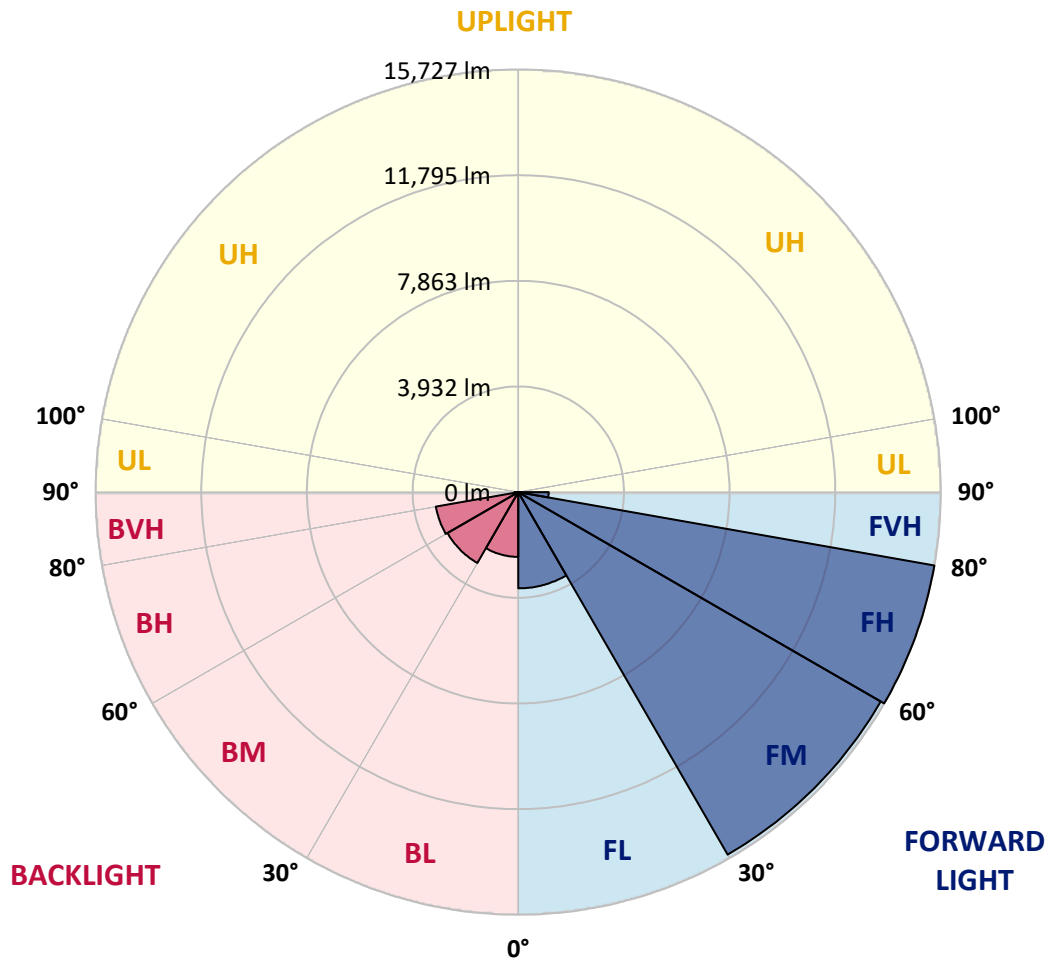


REPORT NUMBER: P480291
 CATALOG NUMBER: IFLD-L-SA7E-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3579.8	8.0			
FM (30°-60°)	15576.5	34.8			
FH (60°-80°)	15726.6	35.2			G5
FVH (80°-90°)	1130.9	2.5			G5
BL (0°-30°)	2408.7	5.4	B3/2500		
BM (30°-60°)	3042.8	6.8	B3/5000		
BH (60°-80°)	3111.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	147.5	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





REPORT NUMBER: P480291

CATALOG NUMBER: IFLD-L-SA7E-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5
2.5°	9640.5	9749.5	9789.1	9848.5	10002.0	10115.9	10185.2	10264.4	10358.5	10437.7	10487.2
5°	8967.1	9026.5	9120.6	9185.0	9378.1	9685.1	9893.1	10229.8	10219.9	10343.6	10531.8
7.5°	8313.5	8373.0	8417.5	8546.3	8823.5	9100.8	9482.1	10026.7	9987.1	10274.3	10566.5
10°	7907.5	7862.9	7877.8	8095.7	8313.5	8625.5	9105.8	9660.3	9803.9	10249.6	10665.5
12.5°	7526.2	7476.7	7595.6	7734.2	8001.6	8283.8	8858.2	9358.3	9576.2	10160.4	10710.0
15°	7288.6	7253.9	7402.5	7461.9	7778.8	8115.5	8521.5	9130.5	9368.2	10051.5	10640.7
17.5°	7154.9	7184.6	7239.1	7367.8	7570.8	7858.0	8303.6	8977.0	9081.0	9917.8	10625.9
20°	7179.6	7214.3	7219.3	7273.7	7412.4	7635.2	8090.7	8813.6	8883.0	9893.1	10665.5
22.5°	7377.7	7328.2	7348.0	7313.3	7352.9	7526.2	7927.3	8595.8	8863.1	9685.1	10581.3
25°	7674.8	7605.5	7595.6	7476.7	7402.5	7452.0	7897.6	8541.3	8714.6	9620.7	10576.4
27.5°	8199.6	8095.7	8095.7	7917.4	7615.4	7536.2	7813.4	8452.2	8605.7	9561.3	10462.5
30°	8704.7	8704.7	8709.7	8457.1	8120.4	7729.3	7848.1	8417.5	8516.5	9383.1	10309.0
32.5°	9318.7	9303.8	9279.1	9155.3	8635.4	8051.1	8016.4	8373.0	8422.5	9323.6	10264.4
35°	9917.8	9878.2	10071.3	9962.4	9432.6	8679.9	8189.7	8392.8	8501.7	9234.5	10125.8
37.5°	10368.4	10393.2	10794.2	10863.5	10408.0	9393.0	8679.9	8590.8	8694.8	9363.2	10125.8
40°	10952.7	11051.7	11428.0	11660.7	11383.5	10333.7	9457.3	8922.6	8996.8	9650.4	10343.6
42.5°	11720.2	11804.3	12284.6	12586.7	12507.4	11532.0	10224.8	9615.8	9556.4	10130.7	10670.4
45°	12735.2	12750.1	13235.3	13651.2	13814.6	12784.7	11442.9	10492.2	10442.7	10957.6	11269.6
47.5°	13943.4	13928.5	14230.6	14676.2	15116.9	14280.1	12844.1	11824.1	11645.9	12141.0	12264.8
50°	15111.9	15047.5	15116.9	15686.3	16533.0	16151.7	14547.4	13453.2	13274.9	13547.2	13760.2
52.5°	15755.6	15834.8	15646.7	16399.3	18038.2	18365.0	16805.3	15399.1	15245.6	15379.3	15750.7
55°	15305.0	15468.4	15344.6	16057.6	18696.8	21063.6	19726.7	17652.0	17454.0	17404.4	18013.5
57.5°	13388.8	13685.9	13710.6	14839.6	18469.0	23153.1	23836.4	20311.0	20013.9	19508.8	20137.7
60°	10279.3	10576.4	10804.1	12141.0	16518.1	24400.9	28599.7	24093.9	23113.5	21806.3	22182.6
62.5°	7204.4	7407.4	7635.2	8457.1	12735.2	23668.1	32719.4	29421.7	27614.4	24227.6	24698.0
65°	5248.6	5407.0	5639.7	6125.0	7823.3	19583.1	34630.6	35749.7	34036.5	27307.4	27248.0
67.5°	3951.3	4050.3	4357.3	5134.7	5421.9	12096.5	32650.1	42434.2	41047.8	30728.9	29297.9
70°	2990.7	3074.9	3362.1	4426.6	5065.4	6486.4	25757.6	43924.6	44320.7	34566.3	30674.4
72.5°	2059.8	2153.9	2475.7	3688.9	4822.7	5144.6	16166.6	39904.0	41404.3	36145.8	29198.9
75°	1262.6	1327.0	1515.2	2797.6	4788.1	5030.7	8897.8	32699.6	34289.0	33397.7	25544.7
77.5°	891.3	886.3	921.0	1638.9	4149.3	5060.4	5486.2	23960.2	25505.1	24613.8	17335.1
80°	648.6	653.6	688.3	980.4	2817.4	5144.6	4322.6	16047.7	16508.2	12834.2	6838.0
82.5°	391.2	411.0	495.1	663.5	1693.4	4644.5	3995.8	8917.6	8343.2	4119.6	1881.6
85°	208.0	208.0	292.1	420.9	901.2	3466.0	3847.3	4243.4	3555.2	1277.5	698.2
87.5°	49.5	49.5	84.2	168.4	361.5	1658.7	2624.3	1688.5	1351.8	430.8	287.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480291
 CATALOG NUMBER: IFLD-L-SA7E-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5	10353.5
2.5°	10467.4	10408.0	10482.3	10333.7	10214.9	10219.9	10036.6	10026.7	10002.0	9873.2	9917.8
5°	10586.3	10536.7	10452.6	10289.2	10026.7	9764.3	9605.9	9402.9	9318.7	9274.1	9293.9
7.5°	10700.1	10611.0	10368.4	10140.6	9734.6	9239.5	8952.3	8679.9	8333.3	8293.7	8224.4
10°	10729.9	10541.7	10229.8	9744.5	9204.8	8655.2	8001.6	7496.5	7229.2	7021.2	6942.0
12.5°	10685.3	10606.1	10006.9	9383.1	8566.1	7704.5	6942.0	6229.0	5733.8	5476.3	5407.0
15°	10680.3	10541.7	9759.4	8833.4	7788.7	6664.7	5580.3	4723.7	4203.8	3990.9	3990.9
17.5°	10685.3	10353.5	9467.2	8278.9	6872.7	5352.5	4159.2	3456.1	3168.9	3139.2	3164.0
20°	10586.3	10214.9	9160.2	7625.3	5723.9	4020.6	3020.4	2733.2	2733.2	2772.8	2787.7
22.5°	10497.1	10006.9	8675.0	6818.2	4555.4	2911.5	2455.9	2371.8	2465.8	2535.2	2564.9
25°	10373.3	9833.6	8179.8	5981.4	3466.0	2347.0	2134.1	2153.9	2243.0	2366.8	2356.9
27.5°	10195.1	9531.6	7590.6	5010.9	2579.7	2025.2	1970.7	1980.6	2074.7	2129.1	2119.2
30°	9992.1	9224.6	7046.0	4045.4	2045.0	1856.8	1851.9	1876.6	1891.5	1921.2	1916.2
32.5°	9734.6	8818.6	6466.6	3144.2	1842.0	1762.7	1742.9	1728.1	1742.9	1738.0	1723.1
35°	9551.4	8600.7	5877.4	2396.5	1728.1	1678.6	1663.7	1638.9	1619.1	1589.4	1584.5
37.5°	9501.9	8382.9	5258.5	1955.8	1638.9	1614.2	1564.7	1520.1	1495.3	1480.5	1470.6
40°	9472.2	8239.3	4654.4	1718.2	1564.7	1539.9	1480.5	1421.1	1396.3	1381.5	1386.4
42.5°	9576.2	8160.0	4040.4	1599.3	1500.3	1455.7	1391.4	1322.0	1317.1	1307.2	1322.0
45°	9942.6	8259.1	3471.0	1515.2	1435.9	1361.7	1277.5	1242.8	1237.9	1228.0	1237.9
47.5°	10774.4	8506.6	2985.7	1460.7	1366.6	1302.2	1213.1	1163.6	1158.6	1153.7	1153.7
50°	11923.2	9269.2	2579.7	1396.3	1322.0	1232.9	1148.7	1094.3	1084.4	1064.6	1064.6
52.5°	13725.5	10551.6	2337.1	1361.7	1242.8	1168.5	1079.4	1020.0	995.2	975.4	975.4
55°	15755.6	12141.0	2292.5	1302.2	1158.6	1089.3	1010.1	950.7	925.9	901.2	891.3
57.5°	18067.9	14245.4	2609.4	1262.6	1099.2	1010.1	921.0	866.5	846.7	821.9	812.0
60°	20221.8	16344.8	3594.8	1203.2	1044.8	935.8	846.7	792.2	767.5	742.7	742.7
62.5°	22712.4	18944.4	5263.4	1203.2	995.2	856.6	767.5	727.9	713.0	688.3	683.3
65°	25658.6	21633.0	6481.5	1277.5	980.4	787.3	693.2	653.6	638.7	623.9	618.9
67.5°	27901.6	23177.9	5575.4	1475.5	1044.8	727.9	618.9	594.2	584.3	569.4	559.5
70°	28139.3	22237.1	3362.1	1594.4	1109.1	668.4	554.6	529.8	529.8	515.0	505.1
72.5°	26005.2	19731.6	2262.8	1421.1	1005.2	599.1	490.2	470.4	460.5	450.6	445.6
75°	21761.8	16736.0	1787.5	1133.9	772.4	495.1	425.8	406.0	391.2	386.2	376.3
77.5°	14616.8	10878.4	1322.0	886.3	569.4	401.1	356.5	336.7	321.8	316.9	302.0
80°	5615.0	4144.4	851.7	643.7	401.1	316.9	282.2	262.4	252.5	237.7	227.8
82.5°	1653.8	1341.9	475.3	396.1	257.5	217.9	203.0	188.2	173.3	158.4	153.5
85°	683.3	614.0	292.1	208.0	158.4	128.7	118.8	104.0	89.1	79.2	69.3
87.5°	316.9	262.4	133.7	79.2	54.5	29.7	14.9	5.0	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)