

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: P480256

Luminaire Tested: **IFLD-L-SA8D-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480256
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

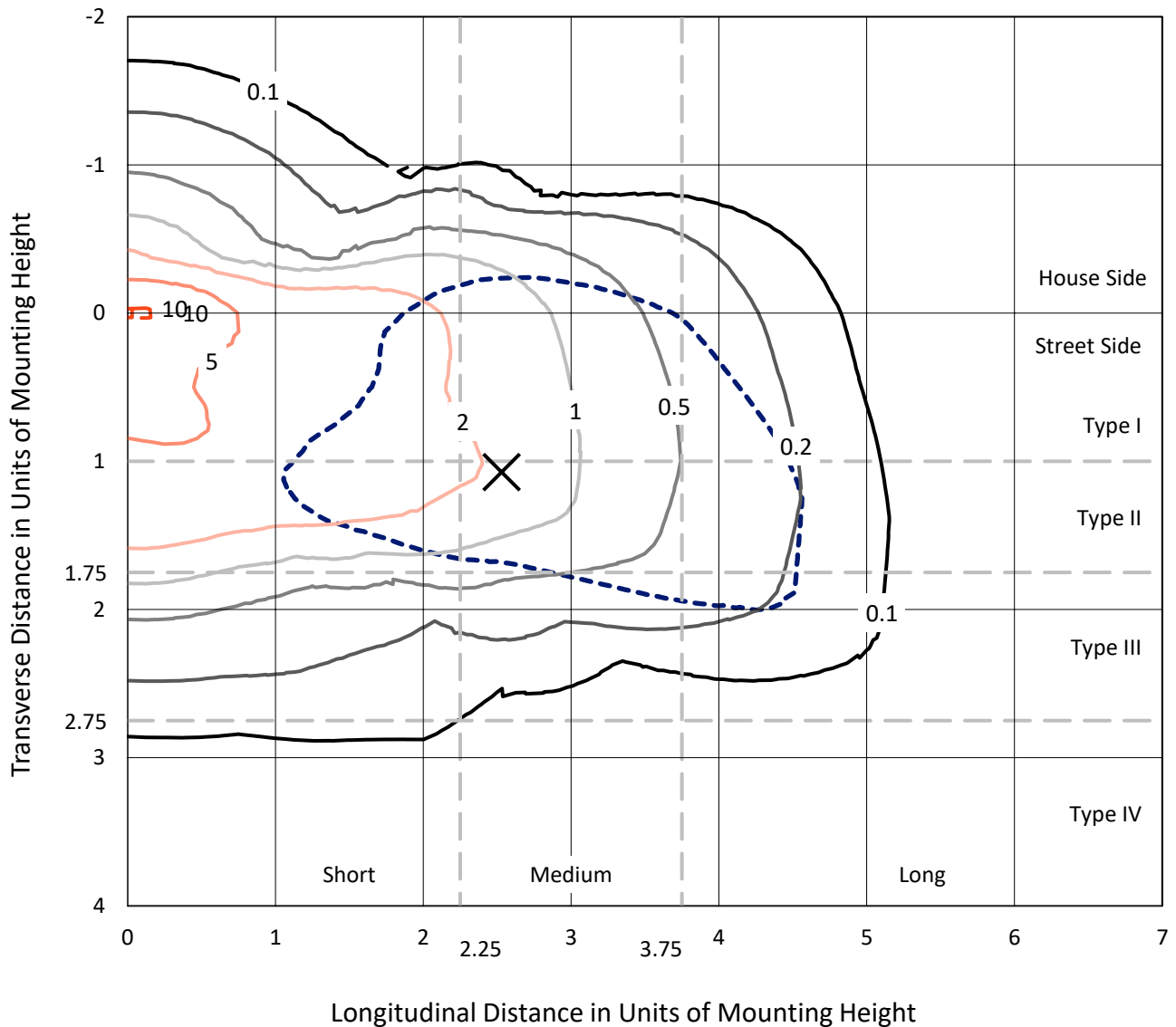
Lumens per Lamp: N/A
Luminaire Lumens: 40859.5 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

REPORT NUMBER: P480256
 CATALOG NUMBER: IFLD-L-SA8D-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

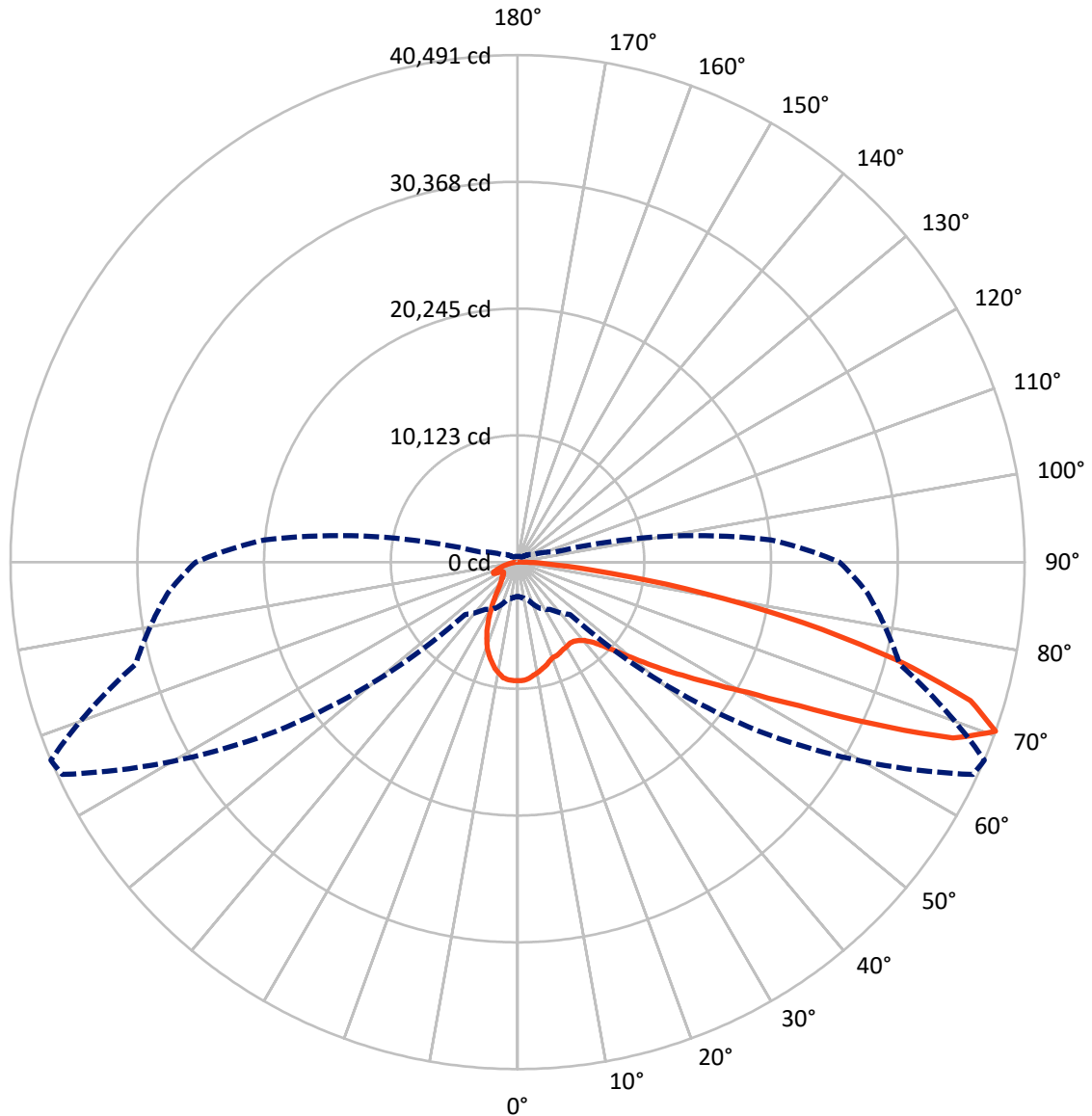
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P480256
CATALOG NUMBER: IFLD-L-SA8D-827-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480256
 CATALOG NUMBER: IFLD-L-SA8D-827-U-SL2

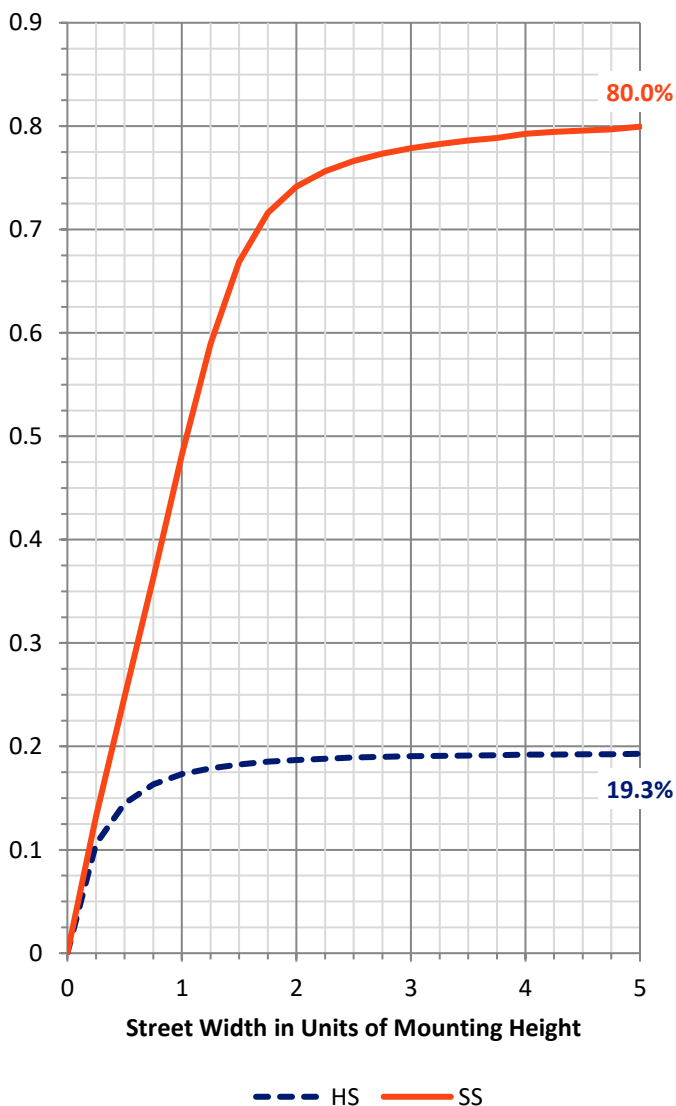
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7957.8	0.0	7957.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32901.7	0.0	32901.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	40859.5	0.0	40859.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.3	2.0
10°-20°	1976.6	4.8
20°-30°	2669.2	6.5
30°-40°	3571.7	8.7
40°-50°	5252.0	12.9
50°-60°	8186.6	20.0
60°-70°	10084.6	24.7
70°-80°	7125.6	17.4
80°-90°	1167.9	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°	40859.5	100.0
0°-180°	40859.5	100.0

Coefficient of Utilization

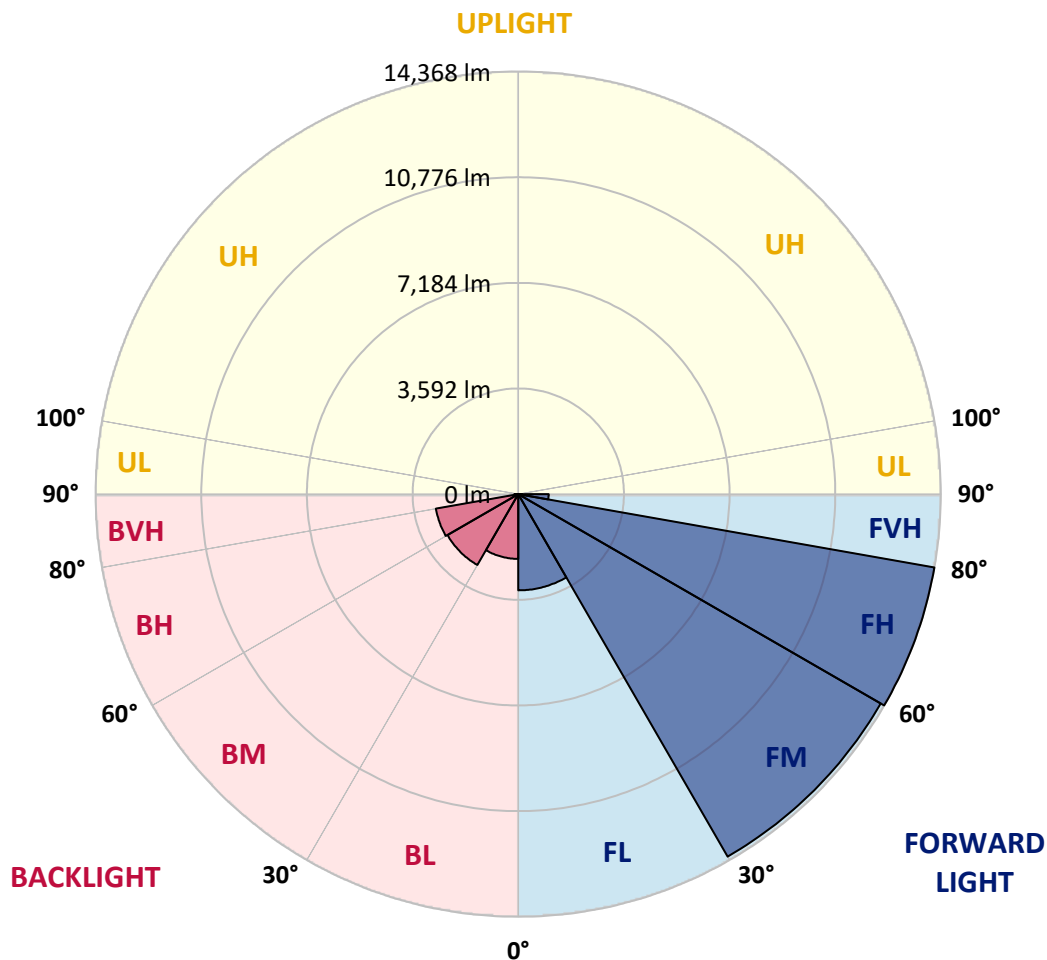


REPORT NUMBER: P480256
 CATALOG NUMBER: IFLD-L-SA8D-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.5	8.0			
FM (30°-60°)	14230.5	34.8			
FH (60°-80°)	14367.6	35.2			G5
FVH (80°-90°)	1033.2	2.5			G5
BL (0°-30°)	2200.6	5.4	B3/2500		
BM (30°-60°)	2779.8	6.8	B3/5000		
BH (60°-80°)	2842.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	134.7	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





REPORT NUMBER: P480256

CATALOG NUMBER: IFLD-L-SA8D-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	8807.5	8907.0	8943.2	8997.4	9137.7	9241.7	9305.0	9377.4	9463.4	9535.8	9581.0
5°	8192.2	8246.5	8332.5	8391.3	8567.7	8848.2	9038.2	9345.8	9336.7	9449.8	9621.7
7.5°	7595.1	7649.4	7690.1	7807.7	8061.1	8314.4	8662.7	9160.3	9124.1	9386.5	9653.4
10°	7224.2	7183.5	7197.1	7396.1	7595.1	7880.1	8318.9	8825.5	8956.7	9363.9	9743.8
12.5°	6875.9	6830.6	6939.2	7065.9	7310.1	7568.0	8092.7	8549.6	8748.6	9282.4	9784.6
15°	6658.7	6627.1	6762.8	6817.1	7106.6	7414.2	7785.1	8341.5	8558.7	9182.9	9721.2
17.5°	6536.6	6563.7	6613.5	6731.1	6916.6	7179.0	7586.1	8201.3	8296.3	9060.8	9707.6
20°	6559.2	6590.9	6595.4	6645.2	6771.8	6975.4	7391.6	8052.0	8115.3	9038.2	9743.8
22.5°	6740.2	6694.9	6713.0	6681.4	6717.5	6875.9	7242.3	7853.0	8097.2	8848.2	9666.9
25°	7011.6	6948.3	6939.2	6830.6	6762.8	6808.0	7215.1	7803.2	7961.5	8789.4	9662.4
27.5°	7491.1	7396.1	7396.1	7233.2	6957.3	6884.9	7138.2	7721.8	7862.0	8735.1	9558.4
30°	7952.5	7952.5	7957.0	7726.3	7418.7	7061.3	7169.9	7690.1	7780.6	8572.2	9418.1
32.5°	8513.4	8499.8	8477.2	8364.1	7889.2	7355.4	7323.7	7649.4	7694.6	8517.9	9377.4
35°	9060.8	9024.6	9201.0	9101.5	8617.5	7929.9	7482.0	7667.5	7767.0	8436.5	9250.8
37.5°	9472.4	9495.0	9861.5	9924.8	9508.6	8581.3	7929.9	7848.4	7943.4	8554.1	9250.8
40°	10006.2	10096.7	10440.5	10653.1	10399.8	9440.8	8640.1	8151.5	8219.4	8816.5	9449.8
42.5°	10707.4	10784.3	11223.1	11499.0	11426.6	10535.5	9341.2	8784.8	8730.6	9255.3	9748.4
45°	11634.7	11648.3	12091.6	12471.6	12620.8	11679.9	10454.0	9585.5	9540.3	10010.7	10295.7
47.5°	12738.5	12724.9	13000.8	13408.0	13810.6	13046.1	11734.2	10802.4	10639.5	11091.9	11205.0
50°	13806.0	13747.2	13810.6	14330.8	15104.3	14756.0	13290.3	12290.6	12127.8	12376.6	12571.1
52.5°	14394.1	14466.5	14294.6	14982.2	16479.5	16778.0	15353.1	14068.4	13928.2	14050.3	14389.6
55°	13982.5	14131.7	14018.6	14670.0	17081.1	19243.4	18022.0	16126.6	15945.7	15900.5	16456.9
57.5°	12231.8	12503.2	12525.9	13557.2	16873.0	21152.4	21776.6	18555.8	18284.4	17823.0	18397.5
60°	9391.0	9662.4	9870.5	11091.9	15090.7	22292.3	26128.3	22011.8	21116.2	19921.9	20265.7
62.5°	6581.8	6767.3	6975.4	7726.3	11634.7	21622.8	29892.0	26879.2	25228.1	22134.0	22563.7
65°	4795.0	4939.8	5152.4	5595.7	7147.3	17890.8	31638.1	32660.4	31095.2	24947.7	24893.4
67.5°	3609.8	3700.3	3980.8	4691.0	4953.3	11051.2	29828.6	38767.3	37500.7	28073.5	26766.2
70°	2732.3	2809.2	3071.5	4044.1	4627.6	5925.9	23531.8	40128.9	40490.8	31579.3	28023.7
72.5°	1881.8	1967.8	2261.8	3370.1	4406.0	4700.0	14769.6	36455.7	37826.4	33022.3	26675.7
75°	1153.5	1212.3	1384.2	2555.8	4374.3	4596.0	8128.9	29873.9	31325.9	30511.7	23337.3
77.5°	814.2	809.7	841.4	1497.3	3790.8	4623.1	5012.2	21889.7	23301.1	22486.8	15837.1
80°	592.6	597.1	628.8	895.7	2573.9	4700.0	3949.1	14661.0	15081.7	11725.2	6247.1
82.5°	357.4	375.5	452.4	606.2	1547.1	4243.1	3650.5	8147.0	7622.3	3763.6	1719.0
85°	190.0	190.0	266.9	384.5	823.3	3166.5	3514.8	3876.7	3247.9	1167.1	637.8
87.5°	45.2	45.2	76.9	153.8	330.2	1515.4	2397.5	1542.5	1234.9	393.6	262.4
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: P480256
 CATALOG NUMBER: IFLD-L-SA8D-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9	9458.9
2.5°	9562.9	9508.6	9576.5	9440.8	9332.2	9336.7	9169.3	9160.3	9137.7	9020.1	9060.8
5°	9671.5	9626.2	9549.3	9400.0	9160.3	8920.5	8775.8	8590.3	8513.4	8472.7	8490.8
7.5°	9775.5	9694.1	9472.4	9264.3	8893.4	8441.0	8178.7	7929.9	7613.2	7577.0	7513.7
10°	9802.6	9630.7	9345.8	8902.4	8409.4	7907.3	7310.1	6848.7	6604.5	6414.5	6342.1
12.5°	9761.9	9689.6	9142.2	8572.2	7825.8	7038.7	6342.1	5690.7	5238.3	5003.1	4939.8
15°	9757.4	9630.7	8916.0	8070.1	7115.6	6088.8	5098.1	4315.5	3840.5	3646.0	3646.0
17.5°	9761.9	9458.9	8649.1	7563.5	6278.8	4890.0	3799.8	3157.5	2895.1	2868.0	2890.6
20°	9671.5	9332.2	8368.7	6966.3	5229.3	3673.2	2759.4	2497.0	2497.0	2533.2	2546.8
22.5°	9590.0	9142.2	7925.4	6229.0	4161.7	2659.9	2243.7	2166.8	2252.8	2316.1	2343.2
25°	9476.9	8983.9	7473.0	5464.5	3166.5	2144.2	1949.7	1967.8	2049.2	2162.3	2153.2
27.5°	9314.1	8707.9	6934.7	4577.9	2356.8	1850.2	1800.4	1809.4	1895.4	1945.1	1936.1
30°	9128.6	8427.5	6437.1	3695.8	1868.2	1696.4	1691.8	1714.4	1728.0	1755.2	1750.6
32.5°	8893.4	8056.5	5907.8	2872.5	1682.8	1610.4	1592.3	1578.7	1592.3	1587.8	1574.2
35°	8726.0	7857.5	5369.5	2189.4	1578.7	1533.5	1519.9	1497.3	1479.2	1452.1	1447.6
37.5°	8680.8	7658.5	4804.1	1786.8	1497.3	1474.7	1429.5	1388.7	1366.1	1352.6	1343.5
40°	8653.7	7527.3	4252.2	1569.7	1429.5	1406.8	1352.6	1298.3	1275.7	1262.1	1266.6
42.5°	8748.6	7454.9	3691.3	1461.1	1370.7	1329.9	1271.1	1207.8	1203.3	1194.2	1207.8
45°	9083.4	7545.4	3171.0	1384.2	1311.8	1244.0	1167.1	1135.4	1130.9	1121.9	1130.9
47.5°	9843.4	7771.5	2727.7	1334.5	1248.5	1189.7	1108.3	1063.0	1058.5	1054.0	1054.0
50°	10892.8	8468.2	2356.8	1275.7	1207.8	1126.4	1049.5	999.7	990.7	972.6	972.6
52.5°	12539.4	9639.8	2135.1	1244.0	1135.4	1067.6	986.1	931.9	909.2	891.1	891.1
55°	14394.1	11091.9	2094.4	1189.7	1058.5	995.2	922.8	868.5	845.9	823.3	814.2
57.5°	16506.6	13014.4	2383.9	1153.5	1004.2	922.8	841.4	791.6	773.5	750.9	741.9
60°	18474.4	14932.4	3284.1	1099.2	954.5	855.0	773.5	723.8	701.2	678.5	678.5
62.5°	20749.8	17307.3	4808.6	1099.2	909.2	782.6	701.2	665.0	651.4	628.8	624.3
65°	23441.3	19763.6	5921.4	1167.1	895.7	719.3	633.3	597.1	583.5	570.0	565.5
67.5°	25490.5	21175.0	5093.6	1348.0	954.5	665.0	565.5	542.8	533.8	520.2	511.2
70°	25707.6	20315.5	3071.5	1456.6	1013.3	610.7	506.6	484.0	484.0	470.5	461.4
72.5°	23758.0	18026.6	2067.3	1298.3	918.3	547.4	447.8	429.7	420.7	411.6	407.1
75°	19881.2	15289.8	1633.0	1035.9	705.7	452.4	389.0	370.9	357.4	352.8	343.8
77.5°	13353.7	9938.4	1207.8	809.7	520.2	366.4	325.7	307.6	294.0	289.5	275.9
80°	5129.8	3786.3	778.1	588.1	366.4	289.5	257.8	239.8	230.7	217.1	208.1
82.5°	1510.9	1225.9	434.3	361.9	235.2	199.0	185.5	171.9	158.3	144.8	140.2
85°	624.3	560.9	266.9	190.0	144.8	117.6	108.6	95.0	81.4	72.4	63.3
87.5°	289.5	239.8	122.1	72.4	49.8	27.1	13.6	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)