

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: P480052

Luminaire Tested: **IFLD-M-SA4E-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480052
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

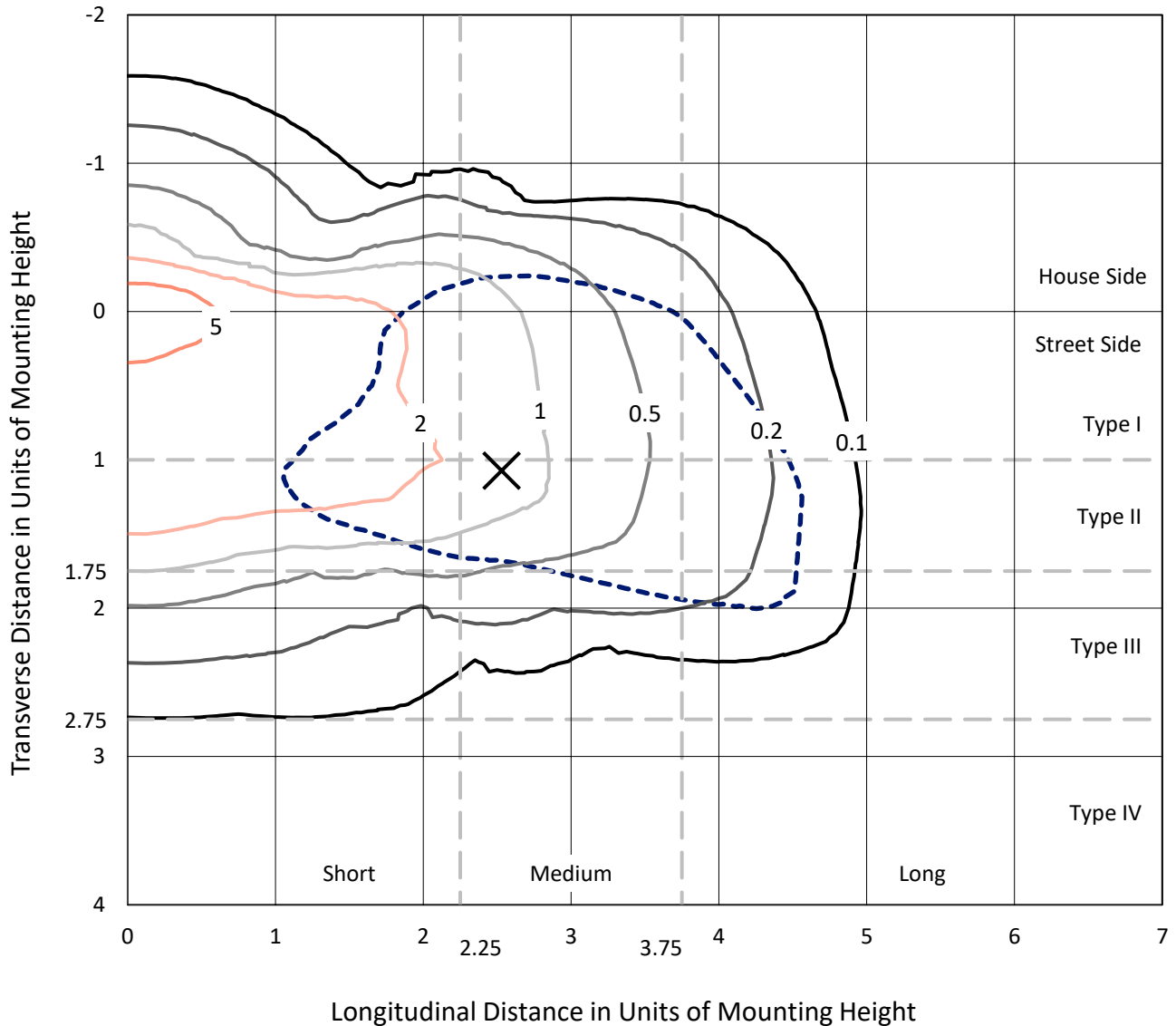
Lumens per Lamp: N/A
Luminaire Lumens: 32870.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (A_{in}): 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

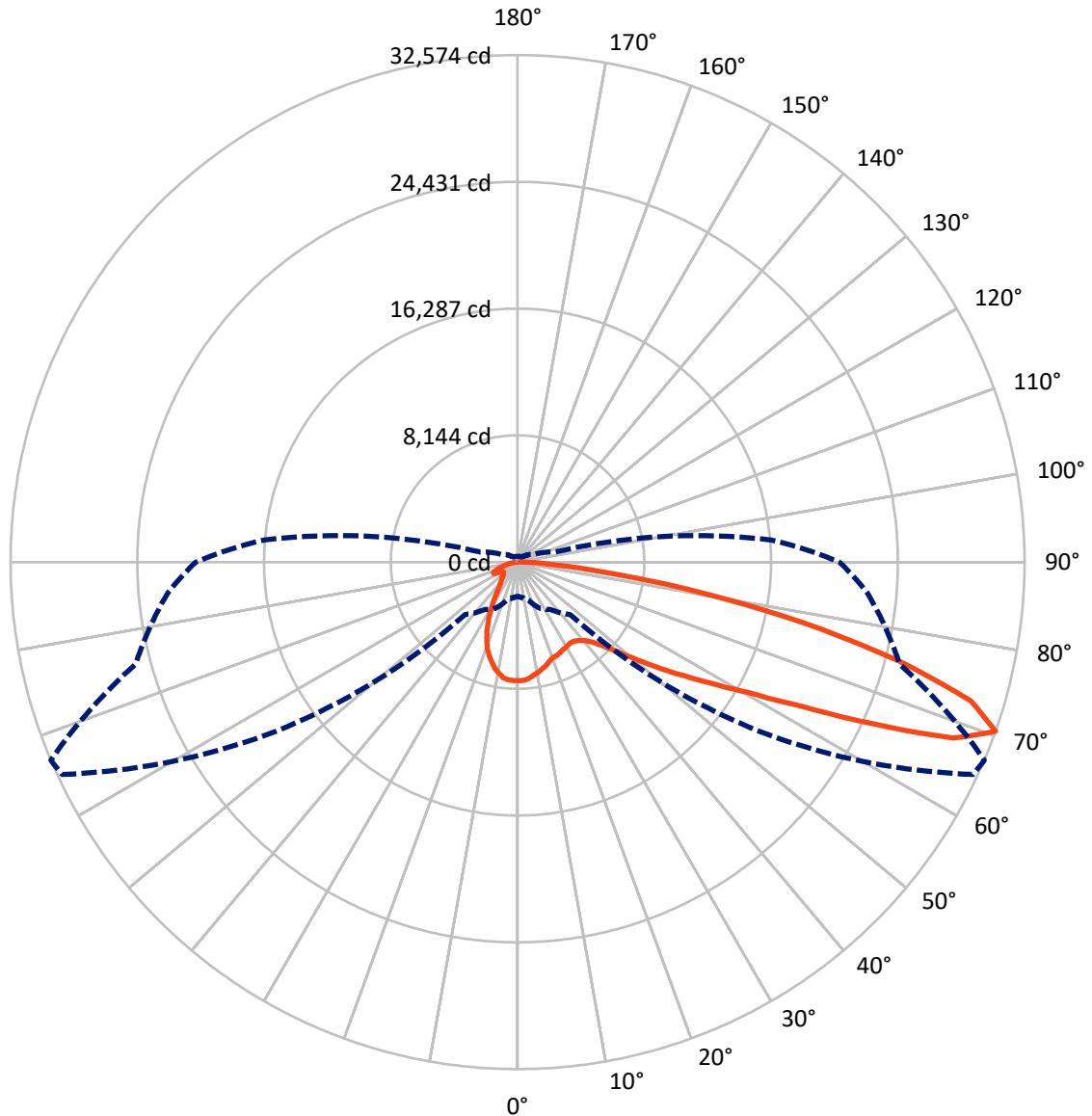
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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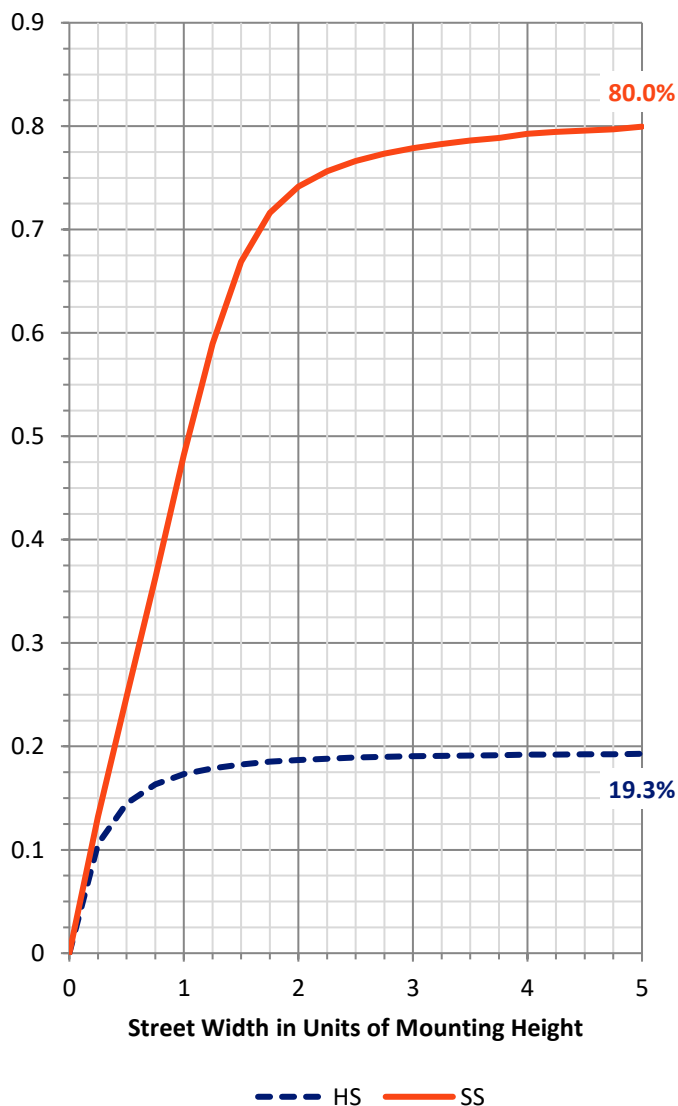
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6401.9	0.0	6401.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26469.0	0.0	26469.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	32870.9	0.0	32870.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	2.0
10°-20°	1590.1	4.8
20°-30°	2147.3	6.5
30°-40°	2873.3	8.7
40°-50°	4225.2	12.9
50°-60°	6586.0	20.0
60°-70°	8112.9	24.7
70°-80°	5732.5	17.4
80°-90°	939.6	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°	32870.9	100.0
0°-180°	32870.9	100.0

Coefficient of Utilization

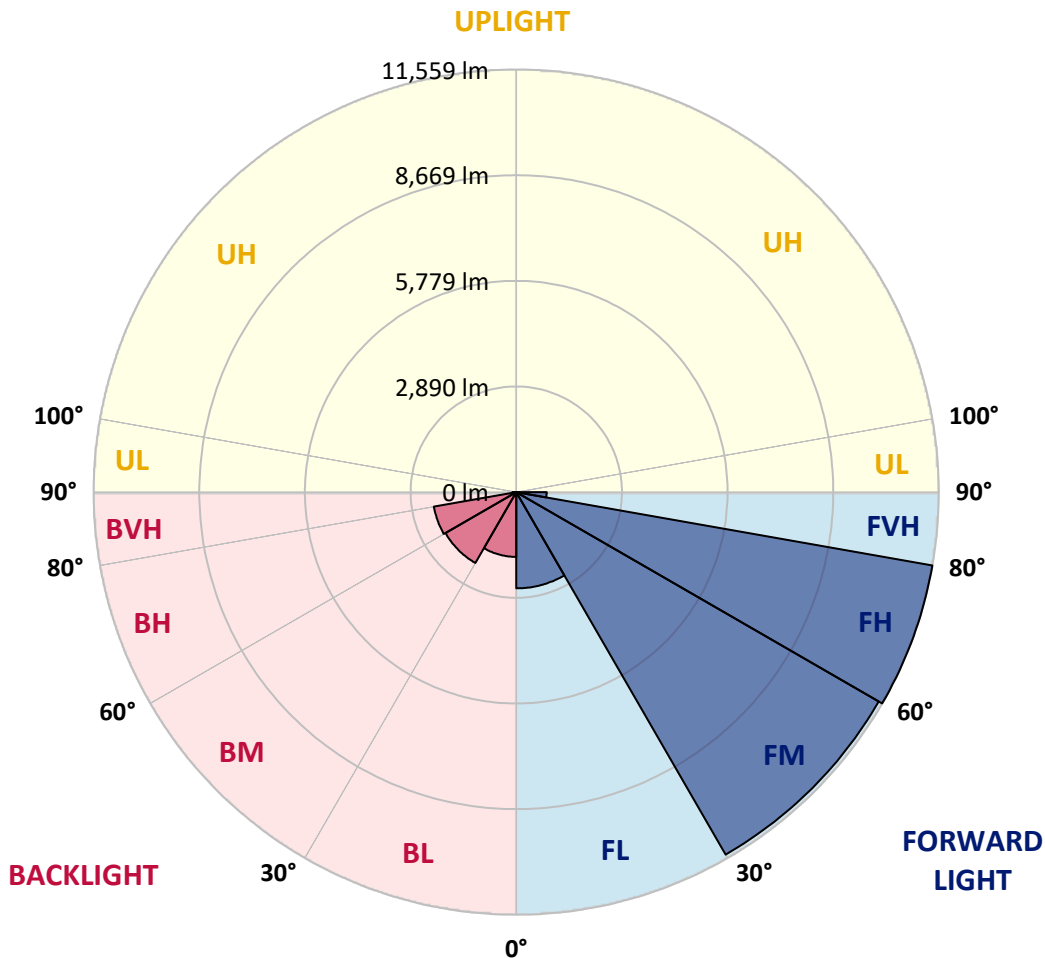


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2631.1	8.0			
FM (30°-60°)	11448.2	34.8			
FH (60°-80°)	11558.5	35.2			G4/12000
FVH (80°-90°)	831.2	2.5			G5
BL (0°-30°)	1770.3	5.4	B3/2500		
BM (30°-60°)	2236.3	6.8	B2/2500		
BH (60°-80°)	2286.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	108.4	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°	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5
2.5°	7085.5	7165.5	7194.6	7238.3	7351.1	7434.8	7485.8	7544.0	7613.1	7671.4	7707.8
5°	6590.5	6634.2	6703.4	6750.7	6892.6	7118.2	7271.1	7518.5	7511.3	7602.2	7740.5
7.5°	6110.2	6153.8	6186.6	6281.2	6485.0	6688.8	6969.0	7369.3	7340.2	7551.3	7766.0
10°	5811.8	5779.0	5789.9	5950.0	6110.2	6339.4	6692.4	7100.0	7205.6	7533.1	7838.8
12.5°	5531.5	5495.2	5582.5	5684.4	5880.9	6088.3	6510.5	6878.0	7038.2	7467.6	7871.5
15°	5356.9	5331.4	5440.6	5484.2	5717.1	5964.6	6263.0	6710.6	6885.3	7387.5	7820.6
17.5°	5258.6	5280.4	5320.5	5415.1	5564.3	5775.4	6102.9	6597.8	6674.2	7289.3	7809.7
20°	5276.8	5302.3	5305.9	5345.9	5447.8	5611.6	5946.4	6477.7	6528.7	7271.1	7838.8
22.5°	5422.4	5386.0	5400.5	5375.1	5404.2	5531.5	5826.3	6317.6	6514.1	7118.2	7776.9
25°	5640.7	5589.8	5582.5	5495.2	5440.6	5477.0	5804.5	6277.6	6404.9	7070.9	7773.3
27.5°	6026.5	5950.0	5950.0	5819.0	5597.0	5538.8	5742.6	6212.1	6324.9	7027.2	7689.6
30°	6397.7	6397.7	6401.3	6215.7	5968.2	5680.7	5768.1	6186.6	6259.4	6896.2	7576.8
32.5°	6848.9	6838.0	6819.8	6728.8	6346.7	5917.3	5891.8	6153.8	6190.2	6852.6	7544.0
35°	7289.3	7260.1	7402.1	7322.0	6932.6	6379.5	6019.2	6168.4	6248.5	6787.1	7442.1
37.5°	7620.4	7638.6	7933.4	7984.3	7649.5	6903.5	6379.5	6314.0	6390.4	6881.7	7442.1
40°	8049.8	8122.6	8399.2	8570.3	8366.5	7595.0	6950.8	6557.8	6612.4	7092.7	7602.2
42.5°	8613.9	8675.8	9028.8	9250.8	9192.5	8475.6	7514.9	7067.3	7023.6	7445.7	7842.4
45°	9360.0	9370.9	9727.5	10033.2	10153.3	9396.3	8410.1	7711.4	7675.0	8053.5	8282.8
47.5°	10247.9	10237.0	10459.0	10786.5	11110.4	10495.4	9440.0	8690.3	8559.3	8923.3	9014.2
50°	11106.8	11059.4	11110.4	11528.9	12151.2	11871.0	10691.9	9887.6	9756.6	9956.8	10113.3
52.5°	11579.8	11638.1	11499.8	12052.9	13257.5	13497.7	12351.4	11317.8	11205.0	11303.3	11576.2
55°	11248.7	11368.8	11277.8	11801.8	13741.5	15481.0	14498.5	12973.7	12828.1	12791.7	13239.3
57.5°	9840.3	10058.7	10076.9	10906.6	13574.1	17016.8	17519.0	14927.9	14709.5	14338.3	14800.5
60°	7554.9	7773.3	7940.7	8923.3	12140.3	17933.8	21019.9	17708.2	16987.7	16026.9	16303.5
62.5°	5295.0	5444.2	5611.6	6215.7	9360.0	17395.2	24047.7	21624.0	20295.7	17806.5	18152.2
65°	3857.5	3974.0	4145.0	4501.7	5749.9	14392.9	25452.4	26274.8	25015.7	20070.0	20026.4
67.5°	2904.1	2976.8	3202.5	3773.8	3984.9	8890.5	23996.7	31187.7	30168.7	22584.7	21533.0
70°	2198.1	2259.9	2471.0	3253.4	3722.9	4767.3	18931.0	32283.1	32574.2	25405.1	22544.7
72.5°	1513.9	1583.0	1819.6	2711.2	3544.6	3781.1	11881.9	29328.1	30430.8	26566.0	21460.2
75°	928.0	975.3	1113.6	2056.1	3519.1	3697.4	6539.6	24033.1	25201.3	24546.2	18774.5
77.5°	655.1	651.4	676.9	1204.6	3049.6	3719.2	4032.2	17610.0	18745.4	18090.3	12740.7
80°	476.7	480.4	505.8	720.6	2070.7	3781.1	3177.0	11794.6	12133.0	9432.7	5025.7
82.5°	287.5	302.1	363.9	487.6	1244.6	3413.5	2936.8	6554.1	6132.0	3027.8	1382.9
85°	152.8	152.8	214.7	309.3	662.3	2547.4	2827.6	3118.8	2612.9	938.9	513.1
87.5°	36.4	36.4	61.9	123.7	265.7	1219.1	1928.8	1241.0	993.5	316.6	211.1
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°	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5	7609.5
2.5°	7693.2	7649.5	7704.1	7595.0	7507.6	7511.3	7376.6	7369.3	7351.1	7256.5	7289.3
5°	7780.6	7744.2	7682.3	7562.2	7369.3	7176.4	7060.0	6910.8	6848.9	6816.2	6830.7
7.5°	7864.3	7798.7	7620.4	7453.0	7154.6	6790.7	6579.6	6379.5	6124.7	6095.6	6044.7
10°	7886.1	7747.8	7518.5	7161.9	6765.2	6361.3	5880.9	5509.7	5313.2	5160.3	5102.1
12.5°	7853.3	7795.1	7354.8	6896.2	6295.8	5662.6	5102.1	4578.1	4214.2	4024.9	3974.0
15°	7849.7	7747.8	7172.8	6492.3	5724.4	4898.3	4101.3	3471.8	3089.7	2933.2	2933.2
17.5°	7853.3	7609.5	6958.1	6084.7	5051.2	3933.9	3056.9	2540.1	2329.1	2307.2	2325.4
20°	7780.6	7507.6	6732.5	5604.3	4206.9	2955.0	2219.9	2008.8	2008.8	2037.9	2048.9
22.5°	7715.0	7354.8	6375.8	5011.1	3348.0	2139.8	1805.0	1743.2	1812.3	1863.3	1885.1
25°	7624.1	7227.4	6011.9	4396.1	2547.4	1725.0	1568.5	1583.0	1648.5	1739.5	1732.2
27.5°	7493.1	7005.4	5578.9	3682.8	1896.0	1488.4	1448.4	1455.7	1524.8	1564.8	1557.6
30°	7343.9	6779.8	5178.5	2973.2	1503.0	1364.7	1361.1	1379.2	1390.2	1412.0	1408.4
32.5°	7154.6	6481.4	4752.8	2310.9	1353.8	1295.5	1281.0	1270.1	1281.0	1277.3	1266.4
35°	7020.0	6321.2	4319.7	1761.4	1270.1	1233.7	1222.8	1204.6	1190.0	1168.2	1164.5
37.5°	6983.6	6161.1	3864.8	1437.5	1204.6	1186.4	1150.0	1117.2	1099.0	1088.1	1080.8
40°	6961.7	6055.6	3420.8	1262.8	1150.0	1131.8	1088.1	1044.4	1026.2	1015.3	1019.0
42.5°	7038.2	5997.4	2969.6	1175.5	1102.7	1069.9	1022.6	971.7	968.0	960.7	971.7
45°	7307.5	6070.1	2551.1	1113.6	1055.4	1000.8	938.9	913.4	909.8	902.5	909.8
47.5°	7918.8	6252.1	2194.4	1073.6	1004.4	957.1	891.6	855.2	851.6	847.9	847.9
50°	8763.1	6812.5	1896.0	1026.2	971.7	906.2	844.3	804.3	797.0	782.4	782.4
52.5°	10087.8	7755.1	1717.7	1000.8	913.4	858.8	793.3	749.7	731.5	716.9	716.9
55°	11579.8	8923.3	1684.9	957.1	851.6	800.6	742.4	698.7	680.5	662.3	655.1
57.5°	13279.3	10469.9	1917.8	928.0	807.9	742.4	676.9	636.9	622.3	604.1	596.8
60°	14862.4	12012.9	2642.0	884.3	767.9	687.8	622.3	582.3	564.1	545.9	545.9
62.5°	16692.9	13923.5	3868.4	884.3	731.5	629.6	564.1	535.0	524.0	505.8	502.2
65°	18858.2	15899.5	4763.7	938.9	720.6	578.6	509.5	480.4	469.5	458.5	454.9
67.5°	20506.7	17035.0	4097.7	1084.5	767.9	535.0	454.9	436.7	429.4	418.5	411.2
70°	20681.4	16343.5	2471.0	1171.8	815.2	491.3	407.6	389.4	389.4	378.5	371.2
72.5°	19112.9	14502.1	1663.1	1044.4	738.8	440.3	360.3	345.7	338.4	331.2	327.5
75°	15994.2	12300.4	1313.7	833.4	567.7	363.9	313.0	298.4	287.5	283.9	276.6
77.5°	10742.8	7995.3	971.7	651.4	418.5	294.8	262.0	247.5	236.5	232.9	222.0
80°	4126.8	3046.0	625.9	473.1	294.8	232.9	207.4	192.9	185.6	174.7	167.4
82.5°	1215.5	986.2	349.4	291.1	189.2	160.1	149.2	138.3	127.4	116.5	112.8
85°	502.2	451.3	214.7	152.8	116.5	94.6	87.3	76.4	65.5	58.2	50.9
87.5°	232.9	192.9	98.3	58.2	40.0	21.8	10.9	3.6	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)