

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: P480015

Luminaire Tested: **IFLD-L-SA7B-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480015
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

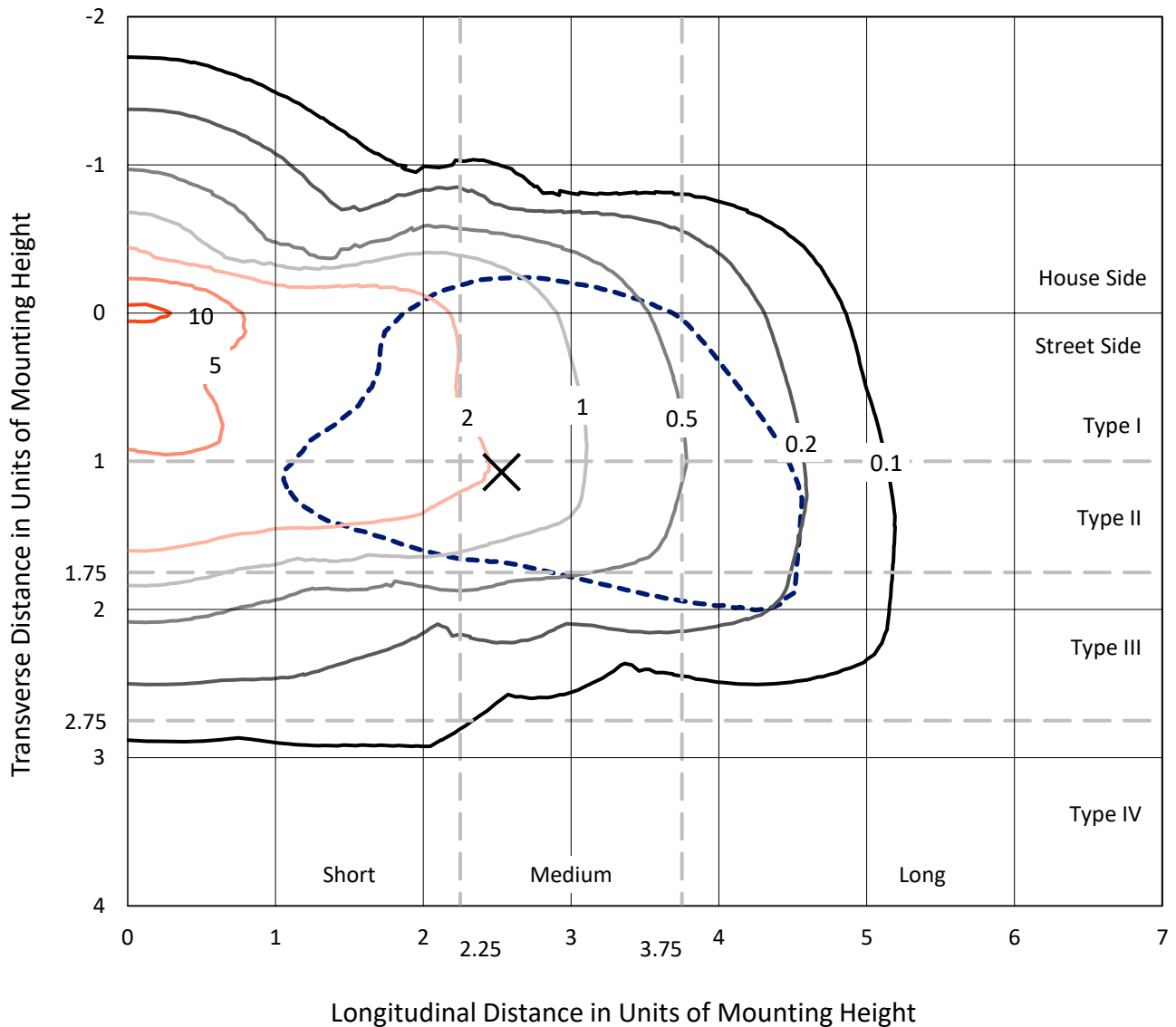
Lumens per Lamp: N/A
Luminaire Lumens: 29694.8 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

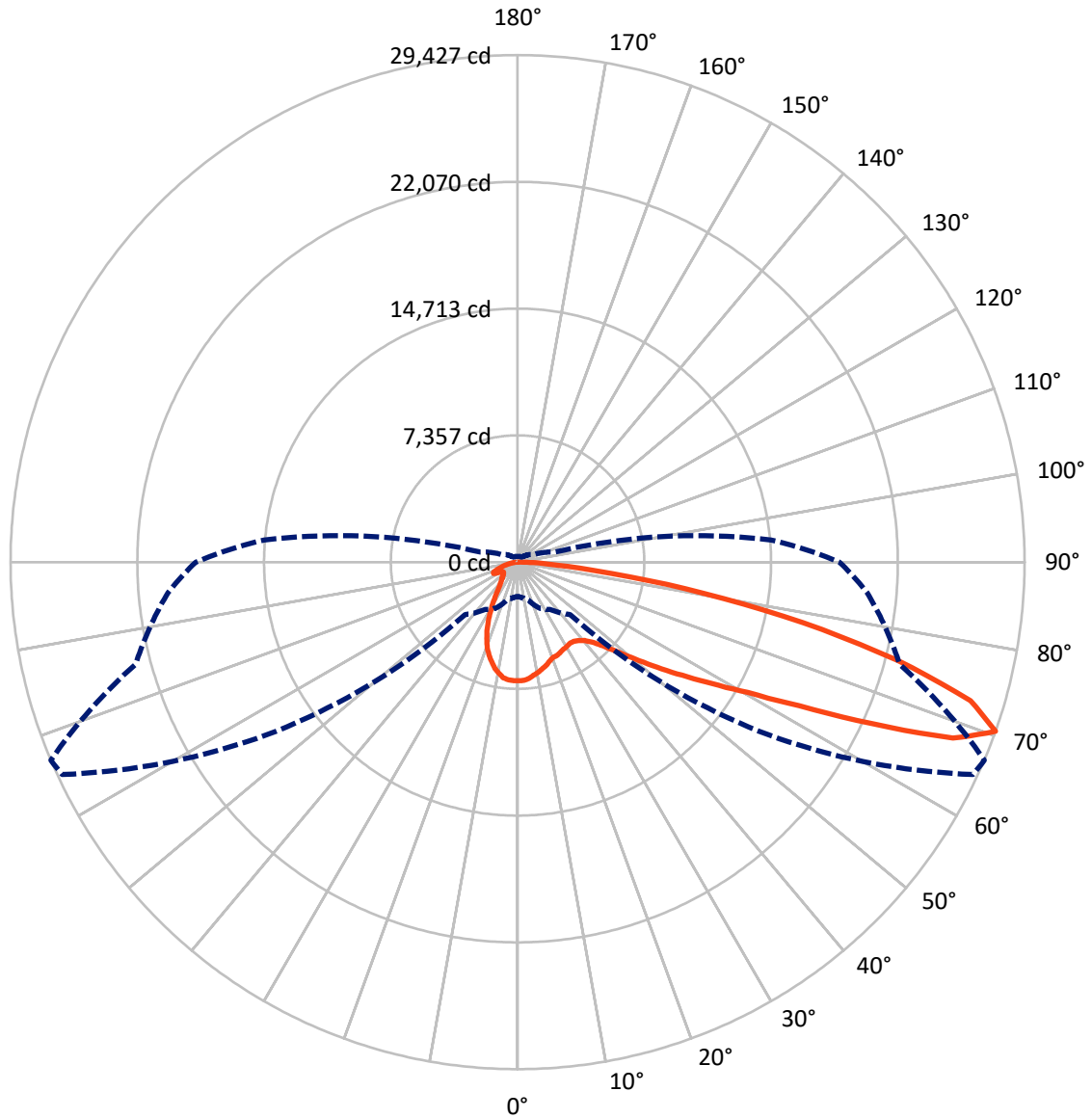
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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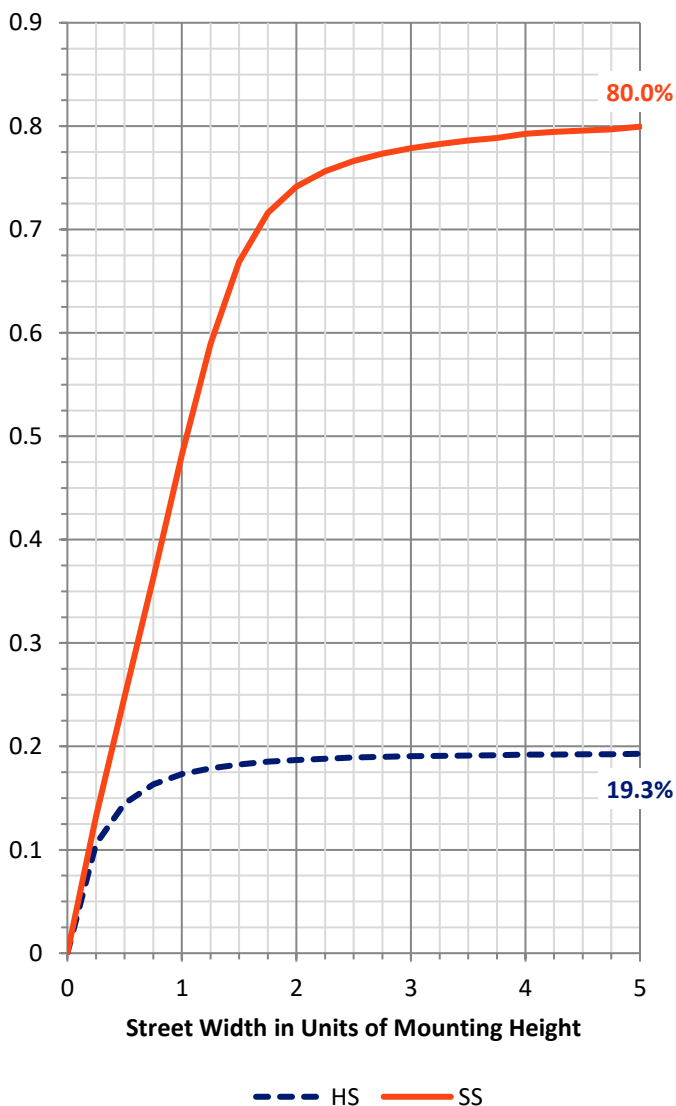
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5783.4	0.0	5783.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	23911.4	0.0	23911.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	29694.8	0.0	29694.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.8	2.0
10°-20°	1436.5	4.8
20°-30°	1939.9	6.5
30°-40°	2595.7	8.7
40°-50°	3816.9	12.9
50°-60°	5949.6	20.0
60°-70°	7329.0	24.7
70°-80°	5178.6	17.4
80°-90°	848.8	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°	29694.8	100.0
0°-180°	29694.8	100.0

Coefficient of Utilization

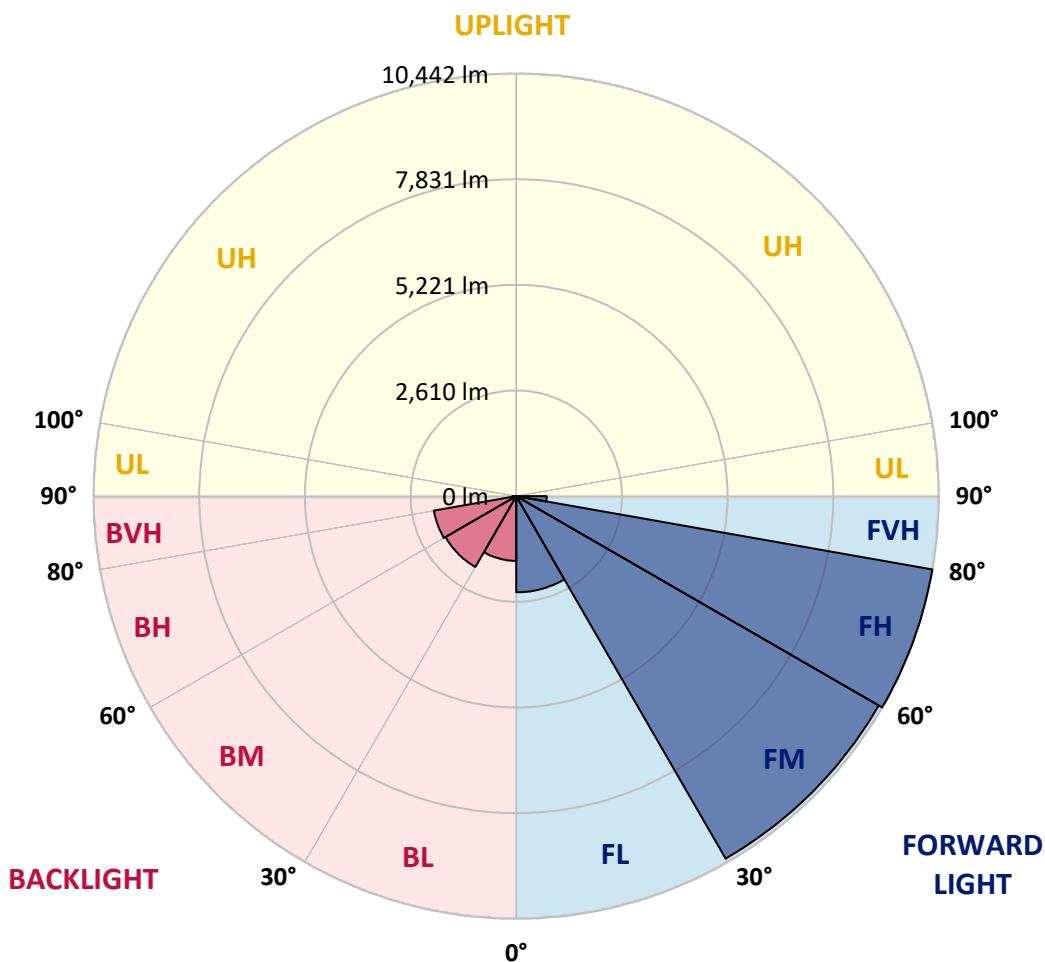


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.8	8.0			
FM (30°-60°)	10342.0	34.8			
FH (60°-80°)	10441.7	35.2			G4/12000
FVH (80°-90°)	750.9	2.5			G5
BL (0°-30°)	1599.3	5.4	B3/2500		
BM (30°-60°)	2020.3	6.8	B2/2500		
BH (60°-80°)	2065.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	97.9	0.3			G1/100
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°	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2
2.5°	6400.8	6473.2	6499.5	6538.9	6640.8	6716.4	6762.5	6815.1	6877.5	6930.1	6963.0
5°	5953.7	5993.2	6055.6	6098.4	6226.6	6430.4	6568.5	6792.1	6785.5	6867.7	6992.6
7.5°	5519.8	5559.2	5588.8	5674.3	5858.4	6042.5	6295.6	6657.3	6631.0	6821.6	7015.6
10°	5250.2	5220.6	5230.5	5375.1	5519.8	5726.9	6045.8	6414.0	6509.3	6805.2	7081.4
12.5°	4997.1	4964.2	5043.1	5135.1	5312.7	5500.1	5881.4	6213.4	6358.1	6746.0	7110.9
15°	4839.3	4816.2	4914.9	4954.3	5164.7	5388.3	5657.9	6062.2	6220.0	6673.7	7064.9
17.5°	4750.5	4770.2	4806.4	4891.9	5026.6	5217.3	5513.2	5960.3	6029.3	6584.9	7055.1
20°	4766.9	4789.9	4793.2	4829.4	4921.4	5069.4	5371.8	5851.8	5897.8	6568.5	7081.4
22.5°	4898.4	4865.6	4878.7	4855.7	4882.0	4997.1	5263.3	5707.2	5884.7	6430.4	7025.5
25°	5095.7	5049.7	5043.1	4964.2	4914.9	4947.7	5243.6	5671.0	5786.1	6387.7	7022.2
27.5°	5444.2	5375.1	5375.1	5256.8	5056.2	5003.6	5187.7	5611.8	5713.7	6348.2	6946.6
30°	5779.5	5779.5	5782.8	5615.1	5391.6	5131.8	5210.7	5588.8	5654.6	6229.9	6844.7
32.5°	6187.1	6177.3	6160.8	6078.7	5733.5	5345.5	5322.5	5559.2	5592.1	6190.4	6815.1
35°	6584.9	6558.6	6686.9	6614.5	6262.8	5763.1	5437.6	5572.4	5644.7	6131.3	6723.0
37.5°	6884.1	6900.5	7166.8	7212.9	6910.4	6236.5	5763.1	5703.9	5772.9	6216.7	6723.0
40°	7272.0	7337.8	7587.6	7742.2	7558.1	6861.1	6279.2	5924.1	5973.5	6407.4	6867.7
42.5°	7781.6	7837.5	8156.4	8356.9	8304.3	7656.7	6788.8	6384.4	6344.9	6726.3	7084.6
45°	8455.5	8465.4	8787.6	9063.7	9172.2	8488.4	7597.5	6966.3	6933.4	7275.3	7482.4
47.5°	9257.7	9247.8	9448.4	9744.3	10036.9	9481.3	8527.9	7850.6	7732.3	8061.0	8143.2
50°	10033.6	9990.8	10036.9	10414.9	10977.1	10723.9	9658.8	8932.2	8813.9	8994.7	9136.1
52.5°	10460.9	10513.5	10388.6	10888.3	11976.5	12193.5	11157.9	10224.2	10122.3	10211.1	10457.7
55°	10161.8	10270.3	10188.1	10661.5	12413.7	13985.2	13097.6	11720.1	11588.6	11555.7	11960.1
57.5°	8889.5	9086.8	9103.2	9852.8	12262.5	15372.5	15826.2	13485.5	13288.2	12952.9	13370.4
60°	6824.9	7022.2	7173.4	8061.0	10967.2	16201.0	18988.8	15997.2	15346.2	14478.3	14728.2
62.5°	4783.4	4918.2	5069.4	5615.1	8455.5	15714.4	21724.1	19534.6	18334.6	16085.9	16398.2
65°	3484.8	3590.0	3744.5	4066.7	5194.3	13002.2	22993.0	23736.0	22598.5	18130.8	18091.3
67.5°	2623.5	2689.2	2893.0	3409.2	3599.9	8031.5	21678.0	28174.2	27253.7	20402.5	19452.4
70°	1985.7	2041.6	2232.2	2939.1	3363.2	4306.7	17101.8	29163.8	29426.8	22950.3	20366.3
72.5°	1367.6	1430.1	1643.8	2449.2	3202.1	3415.8	10733.8	26494.3	27490.4	23999.0	19386.6
75°	838.3	881.1	1006.0	1857.5	3179.0	3340.1	5907.7	21710.9	22766.2	22174.4	16960.4
77.5°	591.8	588.5	611.5	1088.2	2755.0	3359.9	3642.6	15908.4	16934.1	16342.4	11509.7
80°	430.7	434.0	457.0	650.9	1870.6	3415.8	2870.0	10654.9	10960.7	8521.3	4540.1
82.5°	259.7	272.9	328.8	440.5	1124.3	3083.7	2653.0	5920.9	5539.5	2735.2	1249.3
85°	138.1	138.1	194.0	279.4	598.3	2301.3	2554.4	2817.4	2360.5	848.2	463.5
87.5°	32.9	32.9	55.9	111.8	240.0	1101.3	1742.4	1121.1	897.5	286.0	190.7
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°	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2	6874.2
2.5°	6949.9	6910.4	6959.7	6861.1	6782.2	6785.5	6663.8	6657.3	6640.8	6555.4	6584.9
5°	7028.8	6995.9	6940.0	6831.5	6657.3	6483.0	6377.8	6243.0	6187.1	6157.6	6170.7
7.5°	7104.4	7045.2	6884.1	6732.9	6463.3	6134.5	5943.9	5763.1	5532.9	5506.6	5460.6
10°	7124.1	6999.2	6792.1	6469.9	6111.5	5746.6	5312.7	4977.3	4799.8	4661.7	4609.1
12.5°	7094.5	7041.9	6644.1	6229.9	5687.4	5115.4	4609.1	4135.7	3807.0	3636.0	3590.0
15°	7091.2	6999.2	6479.7	5865.0	5171.3	4425.0	3705.1	3136.3	2791.1	2649.8	2649.8
17.5°	7094.5	6874.2	6285.8	5496.8	4563.1	3553.8	2761.5	2294.7	2104.0	2084.3	2100.7
20°	7028.8	6782.2	6081.9	5062.8	3800.4	2669.5	2005.4	1814.7	1814.7	1841.0	1850.9
22.5°	6969.6	6644.1	5759.8	4526.9	3024.5	1933.1	1630.6	1574.7	1637.2	1683.2	1702.9
25°	6887.4	6529.1	5431.0	3971.3	2301.3	1558.3	1416.9	1430.1	1489.3	1571.4	1564.9
27.5°	6769.0	6328.5	5039.8	3327.0	1712.8	1344.6	1308.4	1315.0	1377.5	1413.6	1407.1
30°	6634.3	6124.7	4678.2	2685.9	1357.8	1232.8	1229.5	1246.0	1255.8	1275.6	1272.3
32.5°	6463.3	5855.1	4293.5	2087.6	1223.0	1170.4	1157.2	1147.4	1157.2	1153.9	1144.1
35°	6341.7	5710.5	3902.3	1591.2	1147.4	1114.5	1104.6	1088.2	1075.0	1055.3	1052.0
37.5°	6308.8	5565.8	3491.4	1298.6	1088.2	1071.7	1038.9	1009.3	992.8	983.0	976.4
40°	6289.1	5470.5	3090.3	1140.8	1038.9	1022.4	983.0	943.5	927.1	917.2	920.5
42.5°	6358.1	5417.9	2682.6	1061.9	996.1	966.5	923.8	877.8	874.5	867.9	877.8
45°	6601.4	5483.6	2304.6	1006.0	953.4	904.1	848.2	825.2	821.9	815.3	821.9
47.5°	7153.7	5648.0	1982.4	969.8	907.4	864.6	805.4	772.6	769.3	766.0	766.0
50°	7916.4	6154.3	1712.8	927.1	877.8	818.6	762.7	726.5	720.0	706.8	706.8
52.5°	9113.1	7005.7	1551.7	904.1	825.2	775.9	716.7	677.2	660.8	647.6	647.6
55°	10460.9	8061.0	1522.1	864.6	769.3	723.3	670.7	631.2	614.8	598.3	591.8
57.5°	11996.2	9458.2	1732.5	838.3	729.8	670.7	611.5	575.3	562.2	545.7	539.2
60°	13426.3	10852.2	2386.8	798.9	693.7	621.3	562.2	526.0	509.6	493.1	493.1
62.5°	15079.9	12578.1	3494.7	798.9	660.8	568.7	509.6	483.3	473.4	457.0	453.7
65°	17036.0	14363.3	4303.4	848.2	650.9	522.7	460.3	434.0	424.1	414.2	410.9
67.5°	18525.3	15389.0	3701.8	979.7	693.7	483.3	410.9	394.5	387.9	378.1	371.5
70°	18683.1	14764.3	2232.2	1058.6	736.4	443.8	368.2	351.8	351.8	341.9	335.3
72.5°	17266.2	13100.8	1502.4	943.5	667.4	397.8	325.5	312.3	305.7	299.2	295.9
75°	14448.7	11111.9	1186.8	752.8	512.9	328.8	282.7	269.6	259.7	256.4	249.9
77.5°	9704.8	7222.7	877.8	588.5	378.1	266.3	236.7	223.6	213.7	210.4	200.5
80°	3728.1	2751.7	565.5	427.4	266.3	210.4	187.4	174.2	167.7	157.8	151.2
82.5°	1098.0	890.9	315.6	263.0	171.0	144.7	134.8	124.9	115.1	105.2	101.9
85°	453.7	407.7	194.0	138.1	105.2	85.5	78.9	69.0	59.2	52.6	46.0
87.5°	210.4	174.2	88.8	52.6	36.2	19.7	9.9	3.3	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)