

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: P480279

Luminaire Tested: **IFLD-S-SA6C-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480279
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

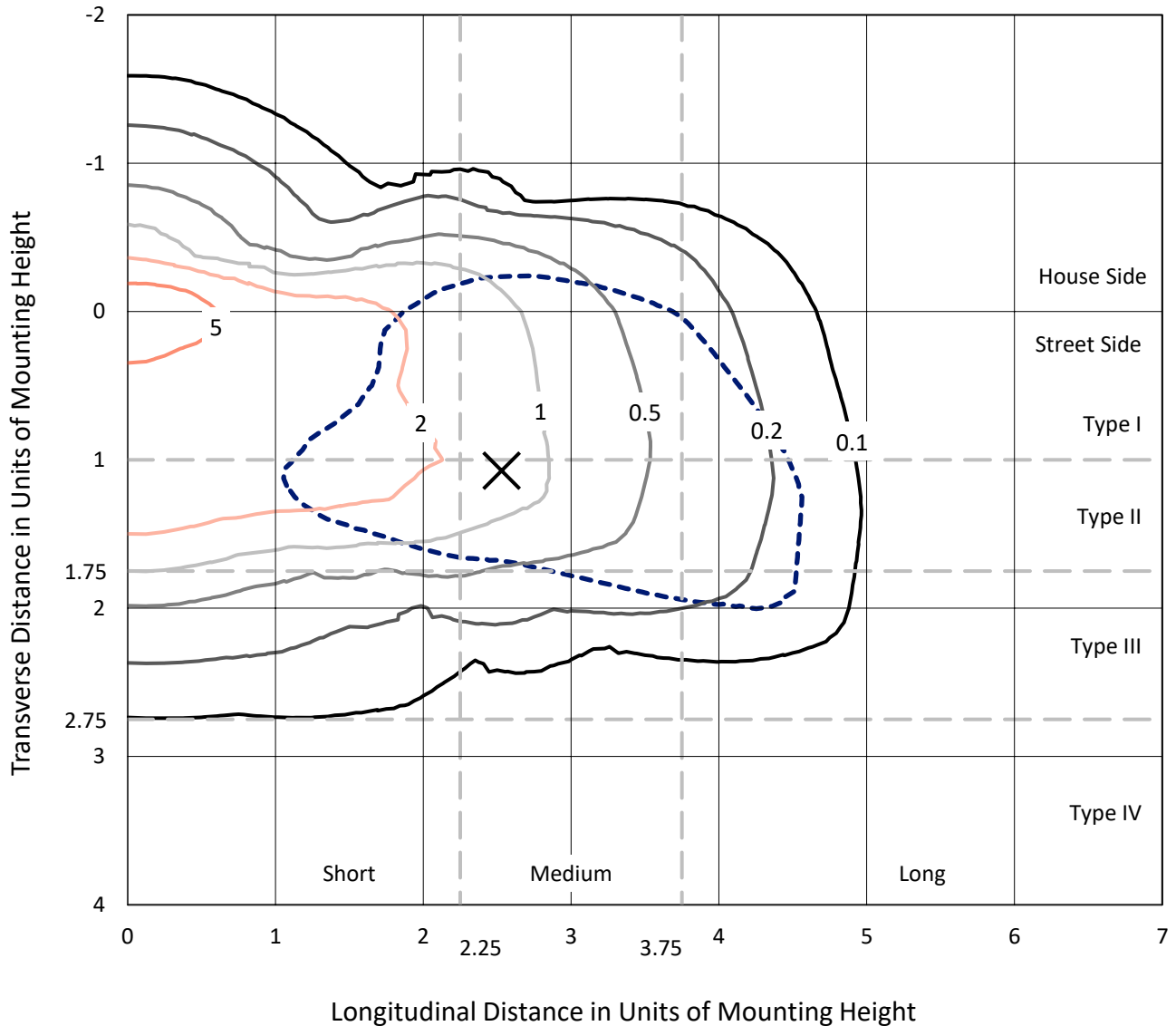
Lumens per Lamp: N/A
Luminaire Lumens: 32919.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

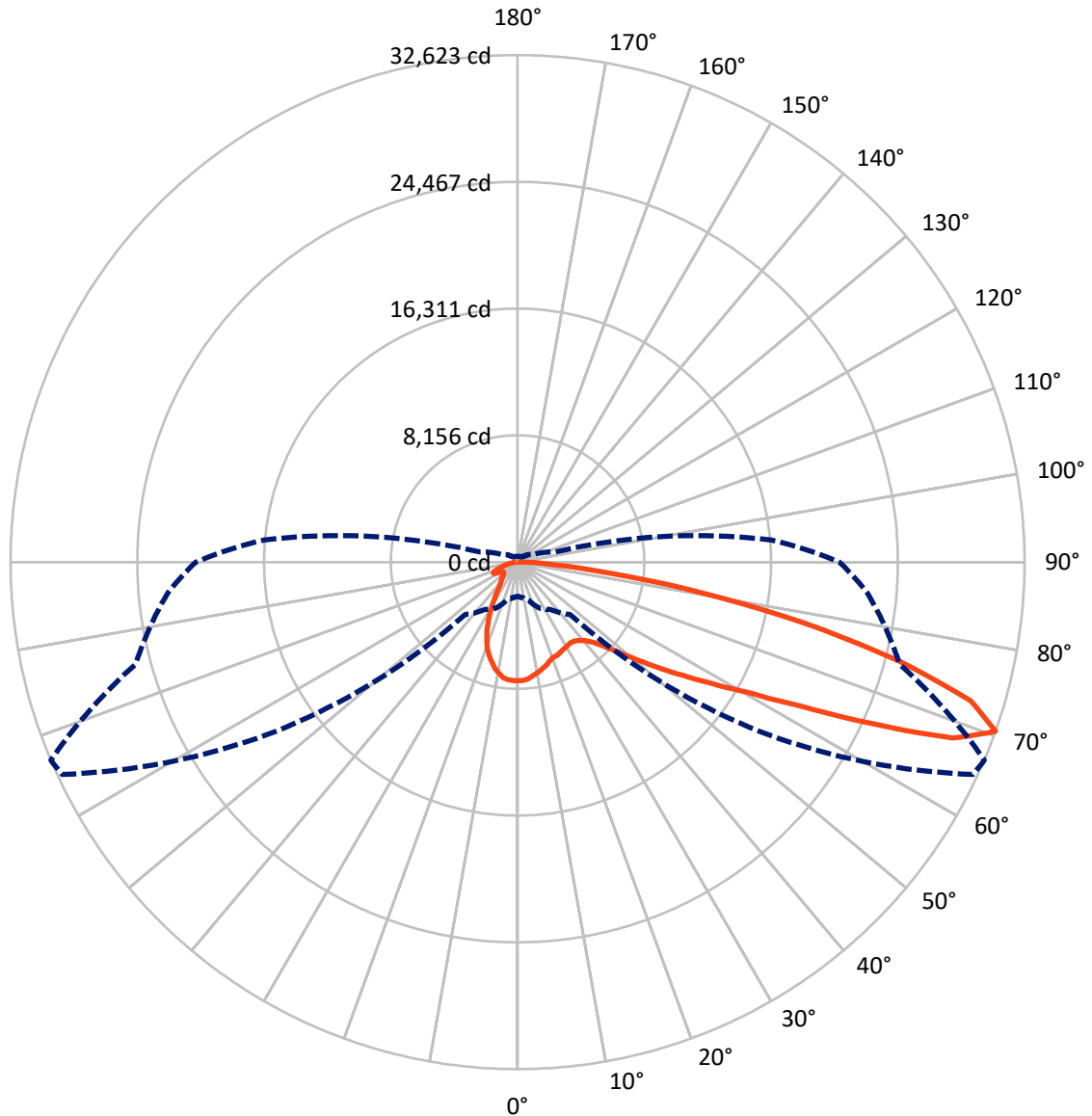
✕ Max cd
 - - - 1/2 Max cd



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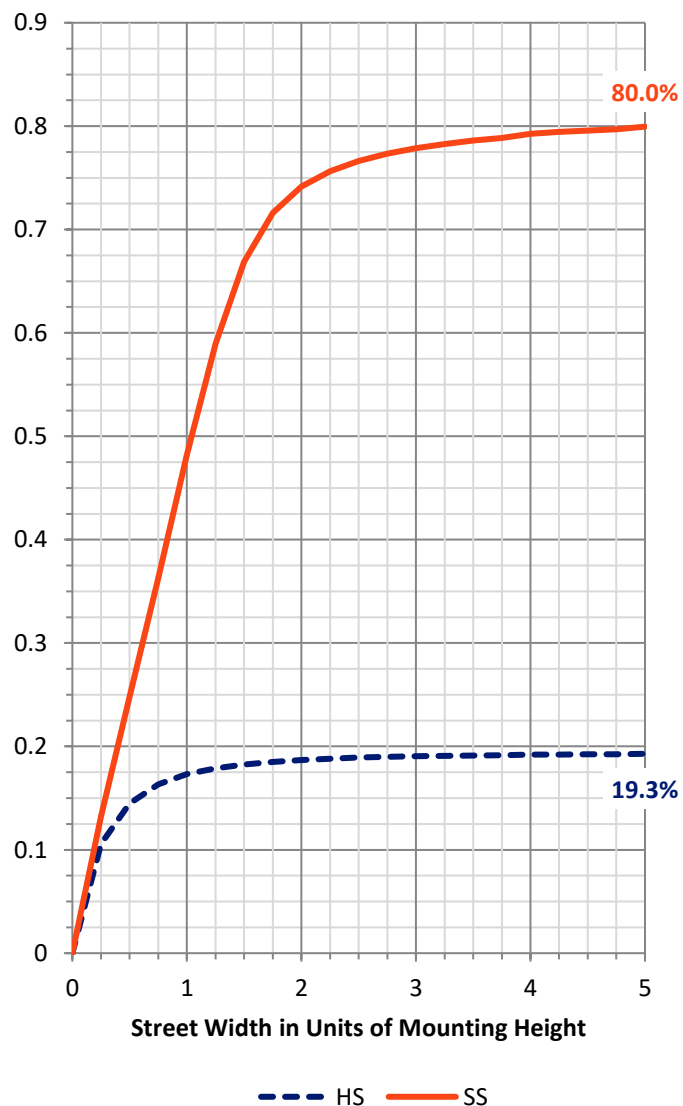
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6411.5	0.0	6411.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26508.5	0.0	26508.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	32919.9	0.0	32919.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.9	2.0
10°-20°	1592.5	4.8
20°-30°	2150.5	6.5
30°-40°	2877.6	8.7
40°-50°	4231.5	12.9
50°-60°	6595.8	20.0
60°-70°	8125.0	24.7
70°-80°	5741.0	17.4
80°-90°	941.0	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°	32919.9	100.0
0°-180°	32919.9	100.0

Coefficient of Utilization



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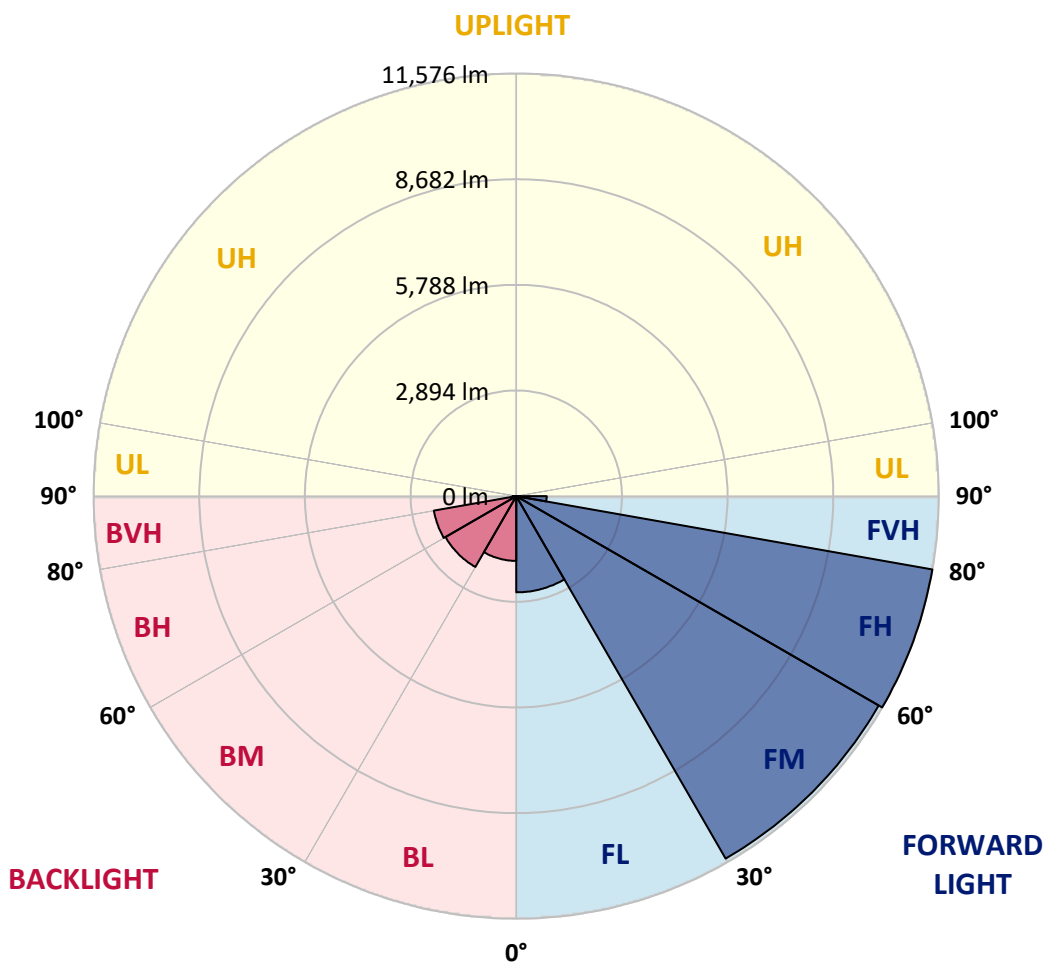
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2635.0	8.0			
FM	(30°-60°)	11465.3	34.8			
FH	(60°-80°)	11575.7	35.2			G4/12000
FVH	(80°-90°)	832.4	2.5			G5
BL	(0°-30°)	1773.0	5.4	B3/2500		
BM	(30°-60°)	2239.7	6.8	B2/2500		
BH	(60°-80°)	2290.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	108.6	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°	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9
2.5°	7096.0	7176.2	7205.4	7249.1	7362.1	7445.9	7496.9	7555.3	7624.5	7682.8	7719.3
5°	6600.4	6644.1	6713.4	6760.7	6902.9	7128.8	7281.9	7529.7	7522.5	7613.6	7752.1
7.5°	6119.3	6163.0	6195.8	6290.6	6494.7	6698.8	6979.4	7380.3	7351.2	7562.5	7777.6
10°	5820.4	5787.6	5798.6	5958.9	6119.3	6348.9	6702.4	7110.6	7216.3	7544.3	7850.5
12.5°	5539.8	5503.3	5590.8	5692.9	5889.7	6097.4	6520.2	6888.3	7048.7	7478.7	7883.3
15°	5364.9	5339.3	5448.7	5492.4	5725.7	5973.5	6272.4	6720.6	6895.6	7398.5	7832.2
17.5°	5266.4	5288.3	5328.4	5423.2	5572.6	5784.0	6112.0	6607.7	6684.2	7300.1	7821.3
20°	5284.7	5310.2	5313.8	5353.9	5456.0	5620.0	5955.3	6487.4	6538.4	7281.9	7850.5
22.5°	5430.5	5394.0	5408.6	5383.1	5412.2	5539.8	5835.0	6327.0	6523.8	7128.8	7788.5
25°	5649.1	5598.1	5590.8	5503.3	5448.7	5485.1	5813.1	6286.9	6414.5	7081.5	7784.9
27.5°	6035.5	5958.9	5958.9	5827.7	5605.4	5547.1	5751.2	6221.3	6334.3	7037.7	7701.0
30°	6407.2	6407.2	6410.9	6225.0	5977.1	5689.2	5776.7	6195.8	6268.7	6906.5	7588.1
32.5°	6859.1	6848.2	6830.0	6738.9	6356.2	5926.1	5900.6	6163.0	6199.5	6862.8	7555.3
35°	7300.1	7271.0	7413.1	7332.9	6943.0	6389.0	6028.2	6177.6	6257.8	6797.2	7453.2
37.5°	7631.8	7650.0	7945.2	7996.3	7661.0	6913.8	6389.0	6323.4	6399.9	6891.9	7453.2
40°	8061.9	8134.7	8411.7	8583.0	8378.9	7606.3	6961.2	6567.6	6622.2	7103.3	7613.6
42.5°	8626.8	8688.7	9042.3	9264.6	9206.3	8488.3	7526.1	7077.8	7034.1	7456.9	7854.1
45°	9373.9	9384.8	9742.0	10048.2	10168.4	9410.4	8422.7	7722.9	7686.5	8065.5	8295.1
47.5°	10263.2	10252.3	10474.6	10802.6	11127.0	10511.0	9454.1	8703.3	8572.1	8936.6	9027.7
50°	11123.3	11075.9	11127.0	11546.1	12169.3	11888.7	10707.8	9902.4	9771.2	9971.6	10128.3
52.5°	11597.1	11655.4	11516.9	12070.9	13277.3	13517.8	12369.8	11334.7	11221.7	11320.1	11593.5
55°	11265.5	11385.7	11294.6	11819.4	13762.0	15504.1	14520.1	12993.0	12847.2	12810.8	13259.1
57.5°	9855.0	10073.7	10091.9	10922.9	13594.4	17042.2	17545.1	14950.2	14731.5	14359.7	14822.6
60°	7566.2	7784.9	7952.5	8936.6	12158.4	17960.6	21051.2	17734.6	17013.0	16050.8	16327.8
62.5°	5302.9	5452.3	5620.0	6225.0	9373.9	17421.2	24083.5	21656.2	20325.9	17833.0	18179.3
65°	3863.3	3979.9	4151.2	4508.4	5758.5	14414.4	25490.3	26314.0	25053.0	20100.0	20056.2
67.5°	2908.4	2981.3	3207.2	3779.5	3990.8	8903.8	24032.5	31234.2	30213.7	22618.4	21565.1
70°	2201.3	2263.3	2474.7	3258.3	3728.4	4774.4	18959.2	32331.3	32622.8	25443.0	22578.3
72.5°	1516.2	1585.4	1822.3	2715.2	3549.8	3786.7	11899.6	29371.8	30476.2	26605.6	21492.2
75°	929.4	976.8	1115.2	2059.2	3524.3	3702.9	6549.3	24068.9	25238.9	24582.8	18802.5
77.5°	656.0	652.4	677.9	1206.4	3054.2	3724.8	4038.2	17636.2	18773.3	18117.3	12759.7
80°	477.4	481.1	506.6	721.6	2073.8	3786.7	3181.7	11812.2	12151.1	9446.8	5033.2
82.5°	287.9	302.5	364.5	488.4	1246.5	3418.6	2941.2	6563.9	6141.2	3032.3	1384.9
85°	153.1	153.1	215.0	309.8	663.3	2551.2	2831.9	3123.4	2616.8	940.3	513.9
87.5°	36.4	36.4	62.0	123.9	266.1	1220.9	1931.6	1242.8	995.0	317.1	211.4
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°	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9	7620.9
2.5°	7704.7	7661.0	7715.6	7606.3	7518.8	7522.5	7387.6	7380.3	7362.1	7267.3	7300.1
5°	7792.2	7755.7	7693.8	7573.5	7380.3	7187.2	7070.5	6921.1	6859.1	6826.3	6840.9
7.5°	7876.0	7810.4	7631.8	7464.1	7165.3	6800.8	6589.4	6389.0	6133.9	6104.7	6053.7
10°	7897.9	7759.4	7529.7	7172.6	6775.3	6370.8	5889.7	5517.9	5321.1	5168.0	5109.7
12.5°	7865.0	7806.7	7365.7	6906.5	6305.2	5671.0	5109.7	4584.9	4220.4	4030.9	3979.9
15°	7861.4	7759.4	7183.5	6502.0	5733.0	4905.6	4107.5	3476.9	3094.3	2937.5	2937.5
17.5°	7865.0	7620.9	6968.5	6093.8	5058.7	3939.8	3061.5	2543.9	2332.5	2310.7	2328.9
20°	7792.2	7518.8	6742.5	5612.7	4213.2	2959.4	2223.2	2011.8	2011.8	2041.0	2051.9
22.5°	7726.6	7365.7	6385.3	5018.6	3353.0	2143.0	1807.7	1745.8	1815.0	1866.0	1887.9
25°	7635.4	7238.2	6020.9	4402.7	2551.2	1727.5	1570.8	1585.4	1651.0	1742.1	1734.8
27.5°	7504.2	7015.9	5587.2	3688.3	1898.8	1490.6	1450.6	1457.8	1527.1	1567.2	1559.9
30°	7354.8	6789.9	5186.3	2977.6	1505.2	1366.7	1363.1	1381.3	1392.2	1414.1	1410.5
32.5°	7165.3	6491.0	4759.8	2314.3	1355.8	1297.5	1282.9	1272.0	1282.9	1279.3	1268.3
35°	7030.4	6330.7	4326.1	1764.0	1272.0	1235.5	1224.6	1206.4	1191.8	1169.9	1166.3
37.5°	6994.0	6170.3	3870.6	1439.6	1206.4	1188.1	1151.7	1118.9	1100.7	1089.7	1082.4
40°	6972.1	6064.6	3425.9	1264.7	1151.7	1133.5	1089.7	1046.0	1027.8	1016.8	1020.5
42.5°	7048.7	6006.3	2974.0	1177.2	1104.3	1071.5	1024.1	973.1	969.5	962.2	973.1
45°	7318.4	6079.2	2554.9	1115.2	1056.9	1002.3	940.3	914.8	911.2	903.9	911.2
47.5°	7930.7	6261.4	2197.7	1075.2	1005.9	958.5	892.9	856.5	852.8	849.2	849.2
50°	8776.2	6822.7	1898.8	1027.8	973.1	907.5	845.5	805.5	798.2	783.6	783.6
52.5°	10102.8	7766.6	1720.3	1002.3	914.8	860.1	794.5	750.8	732.6	718.0	718.0
55°	11597.1	8936.6	1687.5	958.5	852.8	801.8	743.5	699.8	681.5	663.3	656.0
57.5°	13299.1	10485.5	1920.7	929.4	809.1	743.5	677.9	637.8	623.2	605.0	597.7
60°	14884.6	12030.8	2646.0	885.6	769.0	688.8	623.2	583.1	564.9	546.7	546.7
62.5°	16717.8	13944.2	3874.2	885.6	732.6	630.5	564.9	535.8	524.8	506.6	503.0
65°	18886.3	15923.3	4770.8	940.3	721.6	579.5	510.2	481.1	470.2	459.2	455.6
67.5°	20537.3	17060.4	4103.8	1086.1	769.0	535.8	455.6	437.4	430.1	419.1	411.8
70°	20712.3	16367.9	2474.7	1173.6	816.4	492.0	408.2	390.0	390.0	379.0	371.7
72.5°	19141.4	14523.7	1665.6	1046.0	739.9	441.0	360.8	346.2	338.9	331.7	328.0
75°	16018.0	12318.8	1315.7	834.6	568.6	364.5	313.4	298.9	287.9	284.3	277.0
77.5°	10758.9	8007.2	973.1	652.4	419.1	295.2	262.4	247.8	236.9	233.3	222.3
80°	4133.0	3050.5	626.9	473.8	295.2	233.3	207.7	193.2	185.9	174.9	167.7
82.5°	1217.3	987.7	349.9	291.6	189.5	160.4	149.4	138.5	127.6	116.6	113.0
85°	503.0	451.9	215.0	153.1	116.6	94.8	87.5	76.5	65.6	58.3	51.0
87.5°	233.3	193.2	98.4	58.3	40.1	21.9	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)