

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: P480877

Luminaire Tested: **IFLD-L-SA8A-735-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480877
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

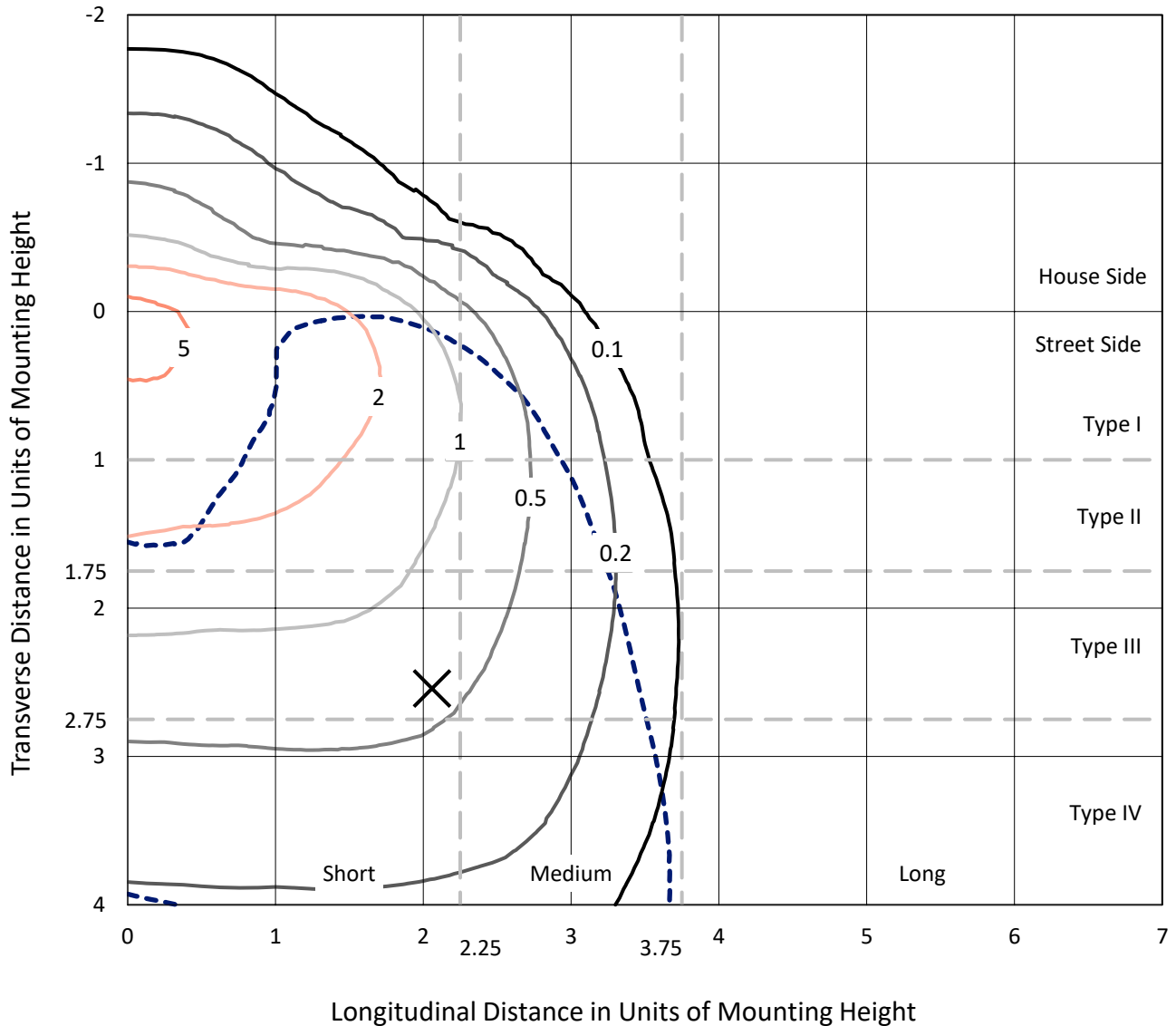
Lumens per Lamp: N/A
Luminaire Lumens: 32681.4 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

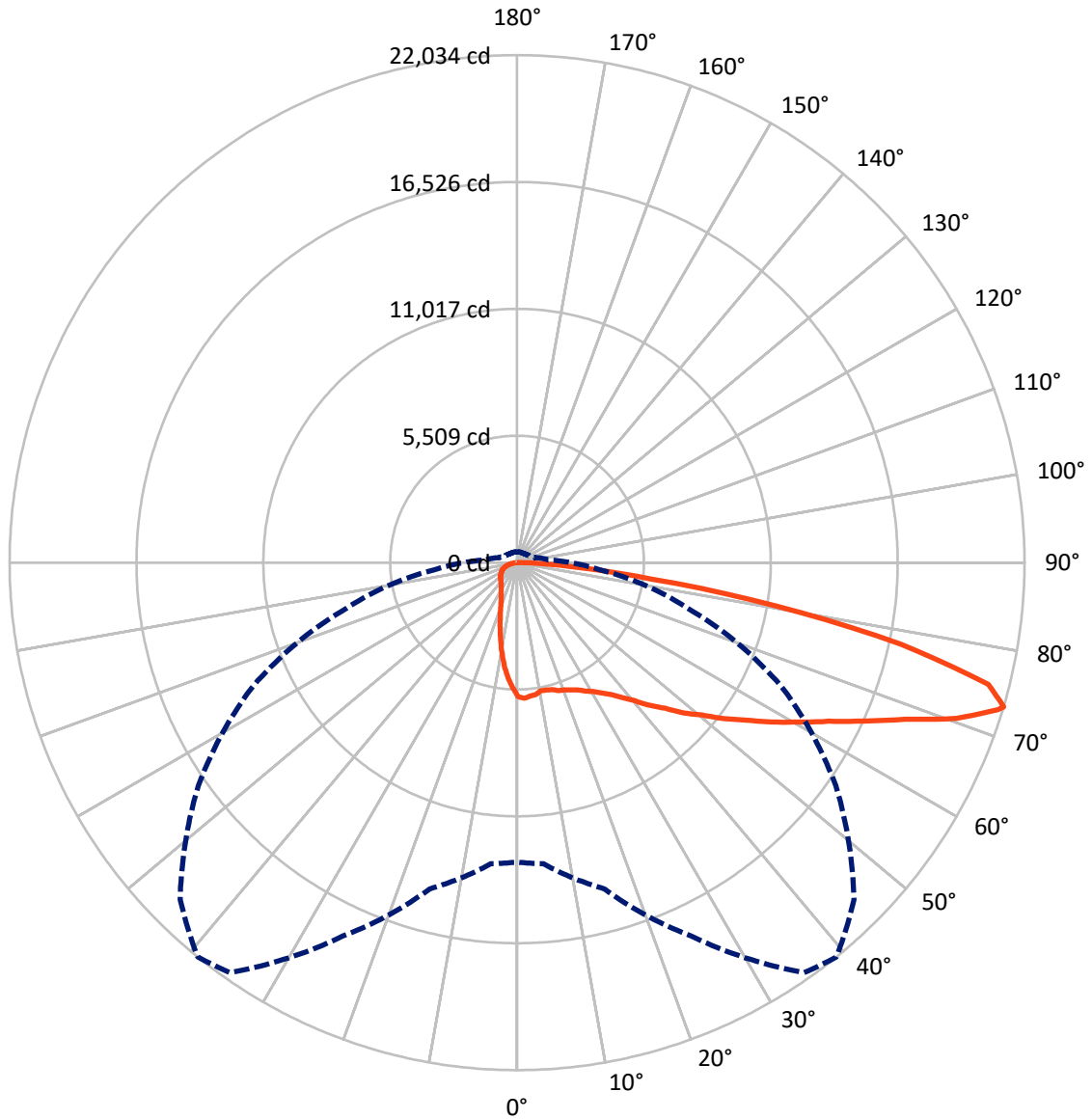
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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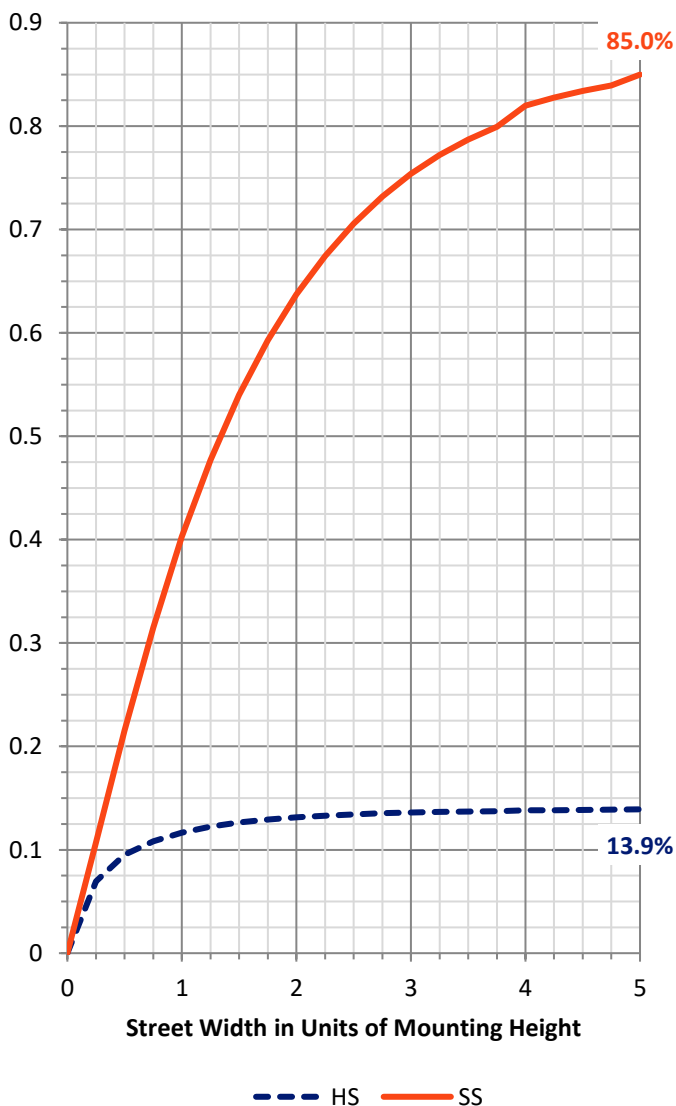
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4594.1	0.0	4594.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	28087.3	0.0	28087.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	32681.4	0.0	32681.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.0	1.5
10°-20°	1283.8	3.9
20°-30°	1961.8	6.0
30°-40°	2860.3	8.8
40°-50°	4322.3	13.2
50°-60°	6258.9	19.2
60°-70°	7952.2	24.3
70°-80°	6446.5	19.7
80°-90°	1090.7	3.3
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°	32681.4	100.0
0°-180°	32681.4	100.0

Coefficient of Utilization



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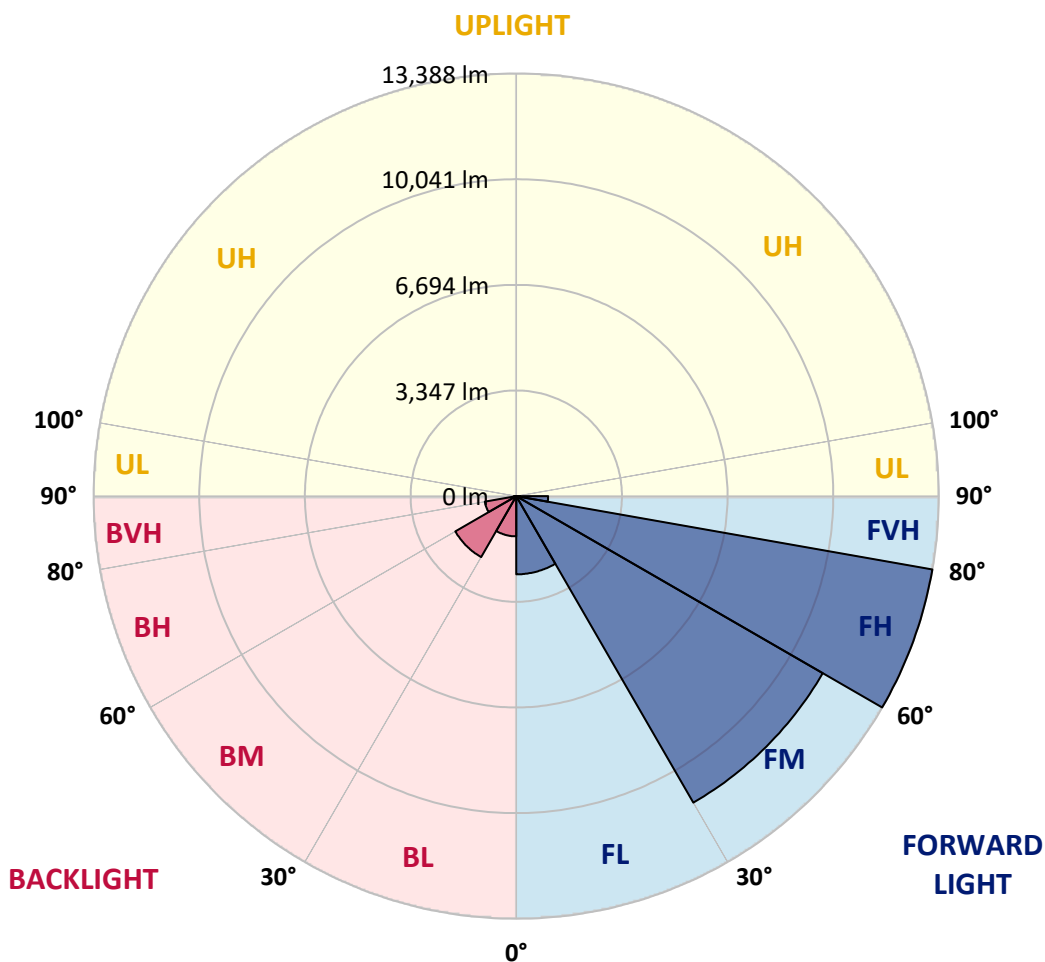
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2476.5	7.6			
FM (30°-60°)	11211.8	34.3			
FH (60°-80°)	13388.3	41.0			G5
FVH (80°-90°)	1010.7	3.1			G5
BL (0°-30°)	1274.0	3.9	B3/2500		
BM (30°-60°)	2229.6	6.8	B2/2500		
BH (60°-80°)	1010.4	3.1	B3/2500		G3/2500
BVH (80°-90°)	80.0	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5956.4	5894.3	5905.2	5883.3	5905.2	5897.9	5887.0	5832.1	5887.0	5832.1	5817.5
5°	5876.0	5876.0	5912.6	5857.7	5865.0	5828.5	5865.0	5824.8	5788.2	5696.8	5671.2
7.5°	5850.4	5846.7	5850.4	5773.6	5810.2	5788.2	5751.7	5707.8	5634.7	5576.2	5492.1
10°	5674.9	5711.5	5671.2	5693.2	5722.4	5656.6	5652.9	5642.0	5609.1	5532.3	5481.1
12.5°	5579.8	5642.0	5663.9	5645.6	5671.2	5678.5	5656.6	5642.0	5601.8	5550.6	5404.3
15°	5620.0	5546.9	5609.1	5729.7	5704.1	5722.4	5726.1	5711.5	5693.2	5598.1	5503.0
17.5°	5631.0	5587.1	5718.8	5744.4	5777.3	5843.1	5799.2	5795.6	5726.1	5660.3	5521.3
20°	5656.6	5638.3	5744.4	5879.7	5883.3	5894.3	5916.2	5861.4	5824.8	5711.5	5499.4
22.5°	5751.7	5813.8	5912.6	5971.1	6004.0	6011.3	6011.3	5901.6	5861.4	5770.0	5601.8
25°	6036.9	5971.1	6110.0	6179.5	6132.0	6121.0	6095.4	5996.7	5952.8	5872.3	5649.3
27.5°	6245.3	6241.6	6322.1	6417.2	6289.2	6314.8	6223.4	6194.1	6095.4	6051.5	5733.4
30°	6530.5	6611.0	6607.3	6636.5	6468.3	6497.6	6380.6	6325.7	6270.9	6296.5	5982.0
32.5°	6896.2	6866.9	6914.4	6892.5	6724.3	6749.9	6611.0	6526.9	6545.1	6621.9	6322.1
35°	7130.2	7100.9	7119.2	7119.2	7068.0	7038.8	6980.3	6870.6	6958.3	7100.9	6702.4
37.5°	7382.5	7419.0	7525.1	7503.1	7437.3	7437.3	7430.0	7353.2	7466.6	7817.6	7309.3
40°	7605.5	7704.2	7770.1	7813.9	7890.7	7890.7	7952.9	7909.0	8113.8	8676.9	8051.6
42.5°	7839.5	7843.2	8201.5	8234.4	8406.3	8479.4	8527.0	8563.5	8947.5	9576.4	8845.1
45°	8139.4	8157.7	8472.1	8724.4	8991.3	9016.9	9196.1	9316.8	9788.4	10560.0	9708.0
47.5°	8534.3	8512.3	8848.7	9250.9	9583.7	9759.2	9974.9	10106.6	10687.9	11627.7	10651.4
50°	9053.5	8987.7	9181.5	9814.0	10205.3	10399.1	10783.0	11002.4	11682.5	12647.8	11298.6
52.5°	9686.1	9576.4	9729.9	10421.0	10859.8	11251.0	11616.7	11861.7	12571.0	13437.6	11777.6
55°	10355.2	10128.5	10172.4	11064.6	11697.1	12066.4	12567.4	12823.3	13547.3	14147.0	12256.6
57.5°	11017.0	10874.4	10786.7	11682.5	12695.4	13050.0	13510.8	13843.5	14457.8	14775.9	12662.5
60°	11572.8	11536.3	11393.7	12640.5	13752.1	14055.6	14538.2	14743.0	15207.4	15357.3	12669.8
62.5°	12029.9	11905.6	12132.3	13412.0	14827.1	15170.8	15701.0	15719.3	16048.4	15719.3	12296.8
65°	12388.2	12395.5	12757.5	14344.4	16070.3	16578.6	17006.4	16958.8	16746.8	15503.6	11415.6
67.5°	12713.6	12852.6	13382.8	15368.3	17668.2	18147.2	18622.6	17993.6	16936.9	14494.4	9693.4
70°	12969.6	13108.6	14227.4	16615.1	19551.3	20253.4	20359.4	18403.2	16063.0	12278.5	7313.0
72.5°	12940.4	13192.7	14706.4	17609.7	21222.3	21829.3	20973.7	17251.4	13382.8	8559.9	4267.1
73°	13002.5	13126.8	14666.2	17887.6	21730.6	22034.1	20688.5	16889.4	12622.2	7678.6	3609.0
75°	11803.2	12223.7	13938.6	17434.2	21185.8	21130.9	19050.4	14073.9	8973.1	4033.1	1747.8
77.5°	8731.7	8998.6	10984.1	14337.1	17390.3	17039.3	14370.0	8995.0	4259.8	1495.5	943.4
80°	4267.1	4475.6	5821.1	8278.3	11371.7	11401.0	8918.2	4680.3	1824.6	844.7	643.5
82.5°	2131.7	2256.1	2797.2	3638.2	5594.4	5861.4	4523.1	2661.9	1129.9	479.0	365.6
85°	1393.1	1480.9	1722.2	1780.7	2373.1	2504.7	2106.1	2076.9	735.0	259.6	296.2
87.5°	925.1	939.7	1056.7	899.5	950.7	914.1	1016.5	1309.0	215.7	109.7	80.4
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°	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5	5817.5
2.5°	5799.2	5748.0	5693.2	5616.4	5561.5	5477.4	5400.7	5367.7	5360.4	5364.1	5327.5
5°	5649.3	5576.2	5466.5	5309.2	5217.8	5078.9	4961.9	4899.7	4833.9	4844.9	4815.6
7.5°	5440.9	5360.4	5192.2	5009.4	4782.7	4585.3	4475.6	4322.0	4234.2	4168.4	4205.0
10°	5375.1	5236.1	4983.8	4731.5	4380.5	4120.9	3868.6	3693.1	3572.4	3455.4	3506.6
12.5°	5342.1	5203.2	4852.2	4479.2	4025.8	3630.9	3276.2	3060.5	2888.6	2786.3	2826.5
15°	5312.9	5141.0	4727.9	4201.3	3693.1	3173.8	2775.3	2490.1	2325.5	2226.8	2237.8
17.5°	5353.1	5108.1	4545.0	3930.7	3327.4	2771.6	2329.2	2033.0	1864.8	1802.7	1788.0
20°	5312.9	5071.6	4365.9	3660.2	2961.8	2387.7	1963.5	1718.6	1601.5	1550.4	1539.4
22.5°	5327.5	4983.8	4179.4	3360.3	2621.7	2065.9	1718.6	1532.1	1440.7	1415.1	1422.4
25°	5397.0	4932.6	3992.9	3031.2	2285.3	1828.2	1561.3	1418.7	1352.9	1327.3	1334.6
27.5°	5448.2	4976.5	3824.7	2720.4	2000.1	1616.2	1429.7	1334.6	1290.7	1272.5	1268.8
30°	5576.2	5002.1	3660.2	2442.5	1766.1	1477.2	1338.3	1261.5	1232.2	1221.3	1217.6
32.5°	5766.3	5049.6	3470.0	2186.6	1594.2	1345.6	1265.1	1199.3	1192.0	1181.0	1184.7
35°	6077.1	5214.2	3257.9	1967.2	1429.7	1257.8	1188.4	1144.5	1144.5	1144.5	1155.5
37.5°	6523.2	5444.5	3067.8	1758.8	1323.7	1181.0	1122.5	1107.9	1100.6	1111.6	1118.9
40°	7097.3	5722.4	2914.2	1594.2	1232.2	1129.9	1078.7	1071.4	1067.7	1064.0	1071.4
42.5°	7726.2	6077.1	2782.6	1466.3	1166.4	1075.0	1038.4	1031.1	1016.5	1023.8	1034.8
45°	8351.4	6515.9	2665.6	1363.9	1122.5	1045.8	994.6	990.9	983.6	979.9	998.2
47.5°	9046.2	6947.3	2629.0	1301.7	1089.6	1001.9	965.3	961.7	939.7	936.1	950.7
50°	9587.3	7265.5	2669.2	1272.5	1042.1	969.0	943.4	925.1	906.8	888.5	888.5
52.5°	9960.3	7484.9	2698.5	1250.5	1016.5	925.1	892.2	884.9	866.6	848.3	841.0
55°	10296.7	7616.5	2705.8	1254.2	990.9	873.9	852.0	848.3	837.3	808.1	800.8
57.5°	10410.1	7561.6	2559.5	1221.3	976.3	841.0	811.7	819.1	804.4	778.8	775.2
60°	10399.1	7181.4	2226.8	1177.4	943.4	804.4	767.9	789.8	789.8	760.6	756.9
62.5°	9766.5	6303.8	1820.9	1093.3	906.8	767.9	727.6	760.6	771.5	753.2	749.6
65°	8453.8	5133.7	1521.1	1009.2	852.0	727.6	687.4	724.0	742.3	735.0	731.3
67.5°	6994.9	3927.1	1265.1	899.5	782.5	672.8	639.9	665.5	676.5	680.1	683.8
70°	4943.6	2614.4	1056.7	778.8	687.4	614.3	577.7	581.4	577.7	588.7	588.7
72.5°	2687.5	1506.5	859.3	661.8	592.4	533.8	508.3	490.0	490.0	486.3	486.3
73°	2299.9	1352.9	819.1	643.5	566.8	519.2	490.0	475.3	475.3	471.7	468.0
75°	1290.7	990.9	702.0	552.1	490.0	453.4	431.5	409.5	405.9	405.9	405.9
77.5°	848.3	771.5	559.4	442.4	394.9	362.0	354.7	332.7	332.7	332.7	329.1
80°	636.2	607.0	431.5	336.4	303.5	277.9	270.6	256.0	252.3	237.7	241.3
82.5°	424.2	479.0	314.5	237.7	204.8	190.1	190.1	186.5	175.5	157.2	157.2
85°	336.4	391.2	226.7	146.3	120.7	102.4	106.0	102.4	98.7	80.4	76.8
87.5°	62.2	157.2	65.8	40.2	29.3	18.3	18.3	11.0	7.3	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)