

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: P480872

Luminaire Tested: **IFLD-L-SA7A-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480872
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

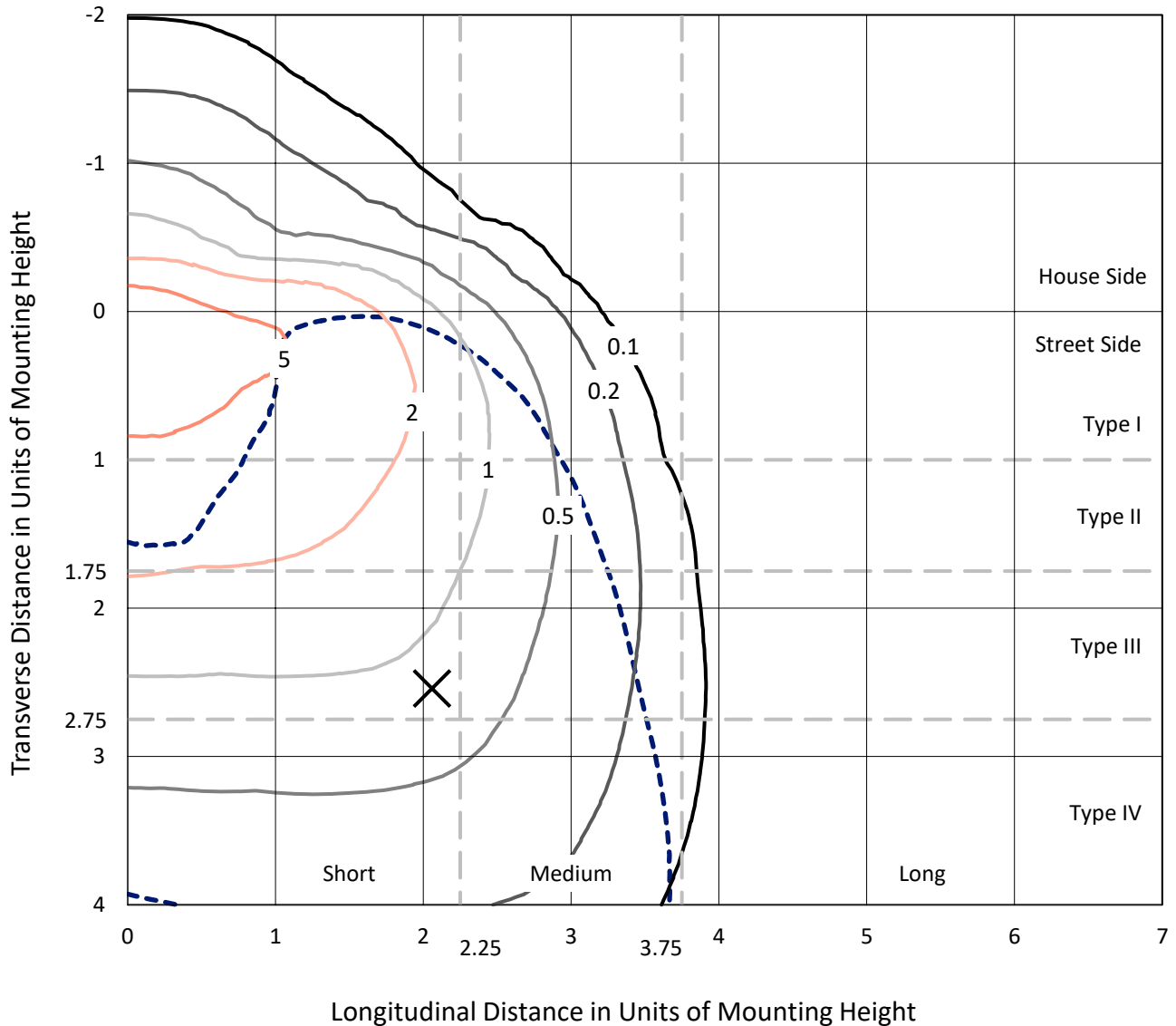
Lumens per Lamp: N/A
Luminaire Lumens: 29861.6 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

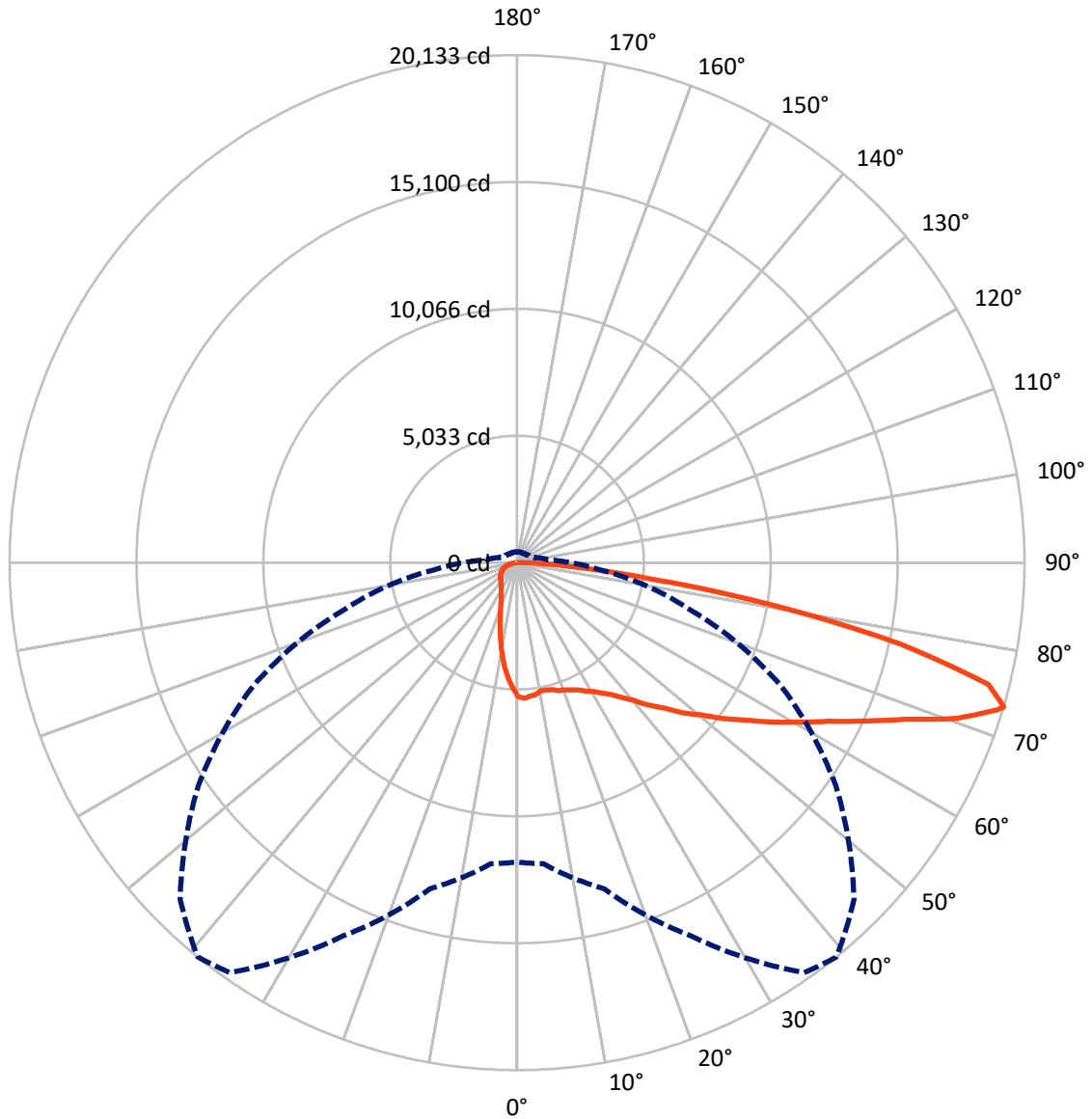
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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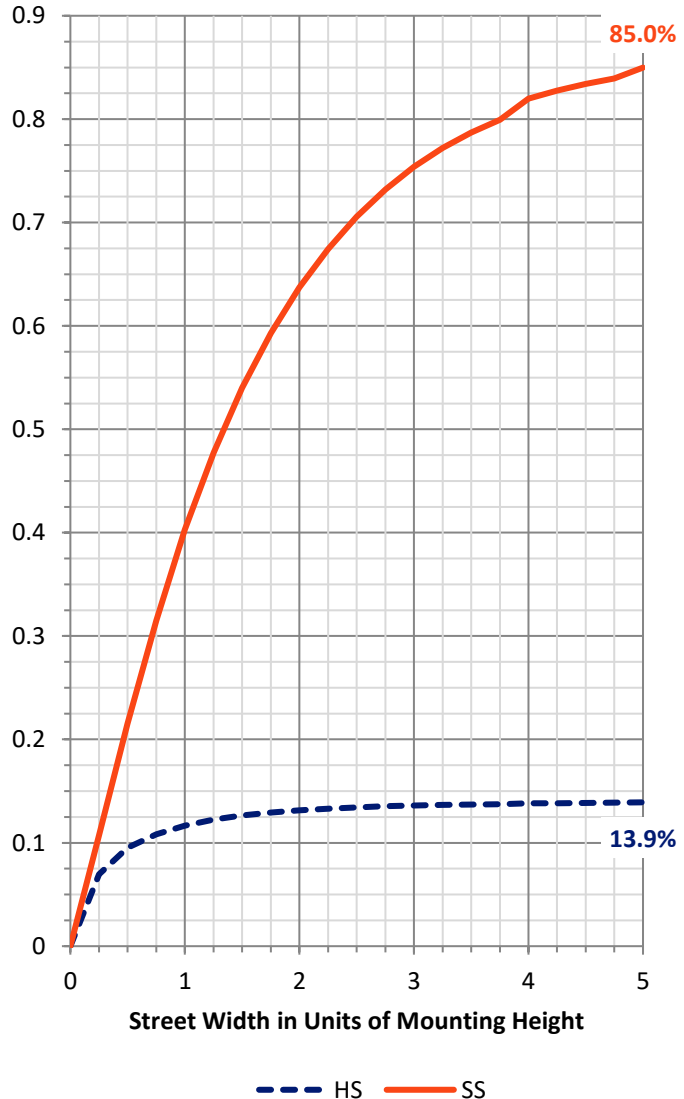
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4197.7	0.0	4197.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25663.9	0.0	25663.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	29861.6	0.0	29861.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.4	1.5
10°-20°	1173.0	3.9
20°-30°	1792.5	6.0
30°-40°	2613.5	8.8
40°-50°	3949.3	13.2
50°-60°	5718.8	19.2
60°-70°	7266.1	24.3
70°-80°	5890.3	19.7
80°-90°	996.6	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°	29861.6	100.0
0°-180°	29861.6	100.0

Coefficient of Utilization

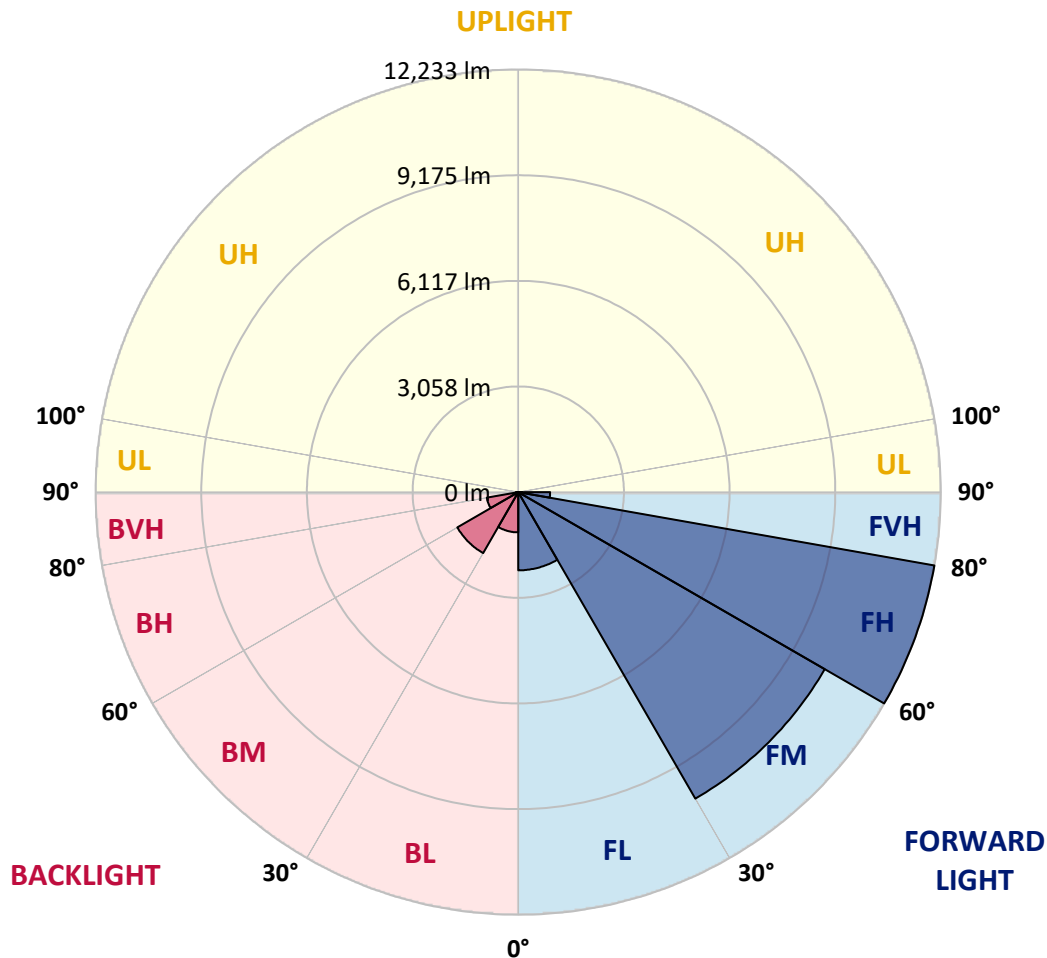


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.8	7.6			
FM (30°-60°)	10244.4	34.3			
FH (60°-80°)	12233.1	41.0			G5
FVH (80°-90°)	923.5	3.1			G5
BL (0°-30°)	1164.1	3.9	B3/2500		
BM (30°-60°)	2037.2	6.8	B2/2500		
BH (60°-80°)	923.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	73.1	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°	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5
2.5°	5442.5	5385.7	5395.7	5375.7	5395.7	5389.0	5379.0	5328.9	5379.0	5328.9	5315.5
5°	5369.0	5369.0	5402.4	5352.3	5359.0	5325.6	5359.0	5322.2	5288.8	5205.3	5181.9
7.5°	5345.6	5342.3	5345.6	5275.5	5308.9	5288.8	5255.4	5215.3	5148.5	5095.0	5018.2
10°	5185.2	5218.7	5181.9	5201.9	5228.7	5168.5	5165.2	5155.2	5125.1	5054.9	5008.2
12.5°	5098.4	5155.2	5175.2	5158.5	5181.9	5188.6	5168.5	5155.2	5118.4	5071.6	4938.0
15°	5135.1	5068.3	5125.1	5235.4	5212.0	5228.7	5232.0	5218.7	5201.9	5115.1	5028.2
17.5°	5145.2	5105.1	5225.3	5248.7	5278.8	5338.9	5298.8	5295.5	5232.0	5171.9	5044.9
20°	5168.5	5151.8	5248.7	5372.3	5375.7	5385.7	5405.8	5355.6	5322.2	5218.7	5024.9
22.5°	5255.4	5312.2	5402.4	5455.9	5485.9	5492.6	5492.6	5392.4	5355.6	5272.1	5118.4
25°	5516.0	5455.9	5582.8	5646.3	5602.9	5592.8	5569.5	5479.3	5439.2	5365.7	5161.9
27.5°	5706.4	5703.1	5776.6	5863.5	5746.5	5769.9	5686.4	5659.7	5569.5	5529.4	5238.7
30°	5967.0	6040.5	6037.2	6063.9	5910.2	5937.0	5830.1	5779.9	5729.8	5753.2	5465.9
32.5°	6301.1	6274.4	6317.8	6297.8	6144.1	6167.5	6040.5	5963.7	5980.4	6050.6	5776.6
35°	6515.0	6488.2	6504.9	6504.9	6458.2	6431.4	6378.0	6277.8	6357.9	6488.2	6124.1
37.5°	6745.5	6778.9	6875.8	6855.7	6795.6	6795.6	6788.9	6718.8	6822.3	7143.1	6678.7
40°	6949.3	7039.5	7099.6	7139.7	7209.9	7209.9	7266.7	7226.6	7413.7	7928.2	7356.9
42.5°	7163.1	7166.5	7493.9	7523.9	7681.0	7747.8	7791.2	7824.6	8175.4	8750.1	8081.9
45°	7437.1	7453.8	7741.1	7971.6	8215.5	8238.9	8402.6	8512.9	8943.9	9648.8	8870.4
47.5°	7797.9	7777.9	8085.2	8452.7	8756.8	8917.1	9114.3	9234.5	9765.8	10624.4	9732.4
50°	8272.3	8212.2	8389.3	8967.3	9324.8	9501.8	9852.6	10053.1	10674.5	11556.5	10323.7
52.5°	8850.3	8750.1	8890.4	9521.9	9922.8	10280.3	10614.4	10838.2	11486.4	12278.2	10761.4
55°	9461.7	9254.6	9294.7	10109.9	10687.9	11025.3	11483.0	11716.9	12378.4	12926.4	11199.1
57.5°	10066.5	9936.2	9856.0	10674.5	11600.0	11924.1	12345.0	12649.1	13210.3	13501.0	11569.9
60°	10574.3	10540.9	10410.6	11549.9	12565.5	12842.8	13283.8	13470.9	13895.3	14032.2	11576.6
62.5°	10991.9	10878.3	11085.5	12254.8	13547.8	13861.8	14346.3	14363.0	14663.7	14363.0	11235.8
65°	11319.3	11326.0	11656.8	13106.8	14683.7	15148.1	15539.0	15495.6	15301.8	14165.9	10430.6
67.5°	11616.7	11743.6	12228.1	14042.3	16143.7	16581.4	17015.8	16441.1	15475.5	13243.8	8857.0
70°	11850.6	11977.5	12999.9	15181.5	17864.4	18505.8	18602.7	16815.3	14677.0	11219.1	6682.0
72.5°	11823.8	12054.4	13437.5	16090.3	19391.2	19945.8	19164.0	15762.9	12228.1	7821.3	3899.0
73°	11880.6	11994.2	13400.8	16344.2	19855.6	20132.9	18903.4	15432.1	11533.2	7016.1	3297.6
75°	10784.8	11169.0	12735.9	15929.9	19357.8	19307.7	17406.6	12859.5	8198.8	3685.1	1597.0
77.5°	7978.3	8222.2	10036.4	13100.1	15889.8	15569.1	13130.2	8218.9	3892.3	1366.5	862.0
80°	3899.0	4089.4	5318.9	7564.0	10390.5	10417.3	8148.7	4276.5	1667.2	771.8	588.0
82.5°	1947.8	2061.4	2555.9	3324.3	5111.7	5355.6	4132.8	2432.3	1032.4	437.7	334.1
85°	1272.9	1353.1	1573.6	1627.1	2168.3	2288.6	1924.4	1897.7	671.5	237.2	270.6
87.5°	845.3	858.6	965.6	821.9	868.7	835.3	928.8	1196.1	197.1	100.2	73.5
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°	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5	5315.5
2.5°	5298.8	5252.1	5201.9	5131.8	5081.7	5004.8	4934.7	4904.6	4897.9	4901.3	4867.8
5°	5161.9	5095.0	4994.8	4851.1	4767.6	4640.7	4533.7	4477.0	4416.8	4426.8	4400.1
7.5°	4971.4	4897.9	4744.2	4577.2	4370.0	4189.6	4089.4	3949.1	3868.9	3808.7	3842.2
10°	4911.3	4784.3	4553.8	4323.3	4002.5	3765.3	3534.8	3374.4	3264.2	3157.3	3204.0
12.5°	4881.2	4754.3	4433.5	4092.7	3678.4	3317.6	2993.5	2796.4	2639.4	2545.8	2582.6
15°	4854.5	4697.5	4319.9	3838.8	3374.4	2900.0	2535.8	2275.2	2124.9	2034.7	2044.7
17.5°	4891.2	4667.4	4152.9	3591.6	3040.3	2532.5	2128.2	1857.6	1703.9	1647.1	1633.8
20°	4854.5	4634.0	3989.2	3344.3	2706.2	2181.7	1794.1	1570.3	1463.4	1416.6	1406.6
22.5°	4867.8	4553.8	3818.8	3070.4	2395.5	1887.7	1570.3	1399.9	1316.4	1293.0	1299.7
25°	4931.3	4507.0	3648.4	2769.7	2088.1	1670.5	1426.6	1296.3	1236.2	1212.8	1219.5
27.5°	4978.1	4547.1	3494.7	2485.7	1827.5	1476.7	1306.3	1219.5	1179.4	1162.7	1159.3
30°	5095.0	4570.5	3344.3	2231.8	1613.7	1349.8	1222.8	1152.6	1125.9	1115.9	1112.6
32.5°	5268.8	4613.9	3170.6	1997.9	1456.7	1229.5	1156.0	1095.9	1089.2	1079.1	1082.5
35°	5552.8	4764.3	2976.8	1797.5	1306.3	1149.3	1085.8	1045.7	1045.7	1045.7	1055.8
37.5°	5960.4	4974.8	2803.1	1607.0	1209.4	1079.1	1025.7	1012.3	1005.6	1015.7	1022.3
40°	6484.9	5228.7	2662.8	1456.7	1125.9	1032.4	985.6	978.9	975.6	972.2	978.9
42.5°	7059.5	5552.8	2542.5	1339.7	1065.8	982.3	948.8	942.2	928.8	935.5	945.5
45°	7630.9	5953.7	2435.6	1246.2	1025.7	955.5	908.8	905.4	898.7	895.4	912.1
47.5°	8265.7	6347.9	2402.2	1189.4	995.6	915.4	882.0	878.7	858.6	855.3	868.7
50°	8760.1	6638.6	2438.9	1162.7	952.2	885.4	862.0	845.3	828.6	811.9	811.9
52.5°	9100.9	6839.0	2465.7	1142.6	928.8	845.3	815.2	808.5	791.8	775.1	768.4
55°	9408.3	6959.3	2472.3	1146.0	905.4	798.5	778.5	775.1	765.1	738.4	731.7
57.5°	9511.8	6909.2	2338.7	1115.9	892.0	768.4	741.7	748.4	735.0	711.6	708.3
60°	9501.8	6561.7	2034.7	1075.8	862.0	735.0	701.6	721.7	721.7	694.9	691.6
62.5°	8923.8	5759.9	1663.8	999.0	828.6	701.6	664.9	694.9	705.0	688.2	684.9
65°	7724.4	4690.8	1389.9	922.1	778.5	664.9	628.1	661.5	678.2	671.5	668.2
67.5°	6391.3	3588.2	1156.0	821.9	715.0	614.7	584.7	608.1	618.1	621.4	624.8
70°	4517.0	2388.8	965.6	711.6	628.1	561.3	527.9	531.2	527.9	537.9	537.9
72.5°	2455.6	1376.5	785.1	604.7	541.2	487.8	464.4	447.7	447.7	444.4	444.4
73°	2101.5	1236.2	748.4	588.0	517.9	474.4	447.7	434.3	434.3	431.0	427.6
75°	1179.4	905.4	641.5	504.5	447.7	414.3	394.2	374.2	370.9	370.9	370.9
77.5°	775.1	705.0	511.2	404.3	360.8	330.8	324.1	304.0	304.0	304.0	300.7
80°	581.3	554.6	394.2	307.4	277.3	253.9	247.2	233.9	230.5	217.2	220.5
82.5°	387.6	437.7	287.3	217.2	187.1	173.7	173.7	170.4	160.4	143.7	143.7
85°	307.4	357.5	207.1	133.6	110.3	93.5	96.9	93.5	90.2	73.5	70.2
87.5°	56.8	143.7	60.1	36.8	26.7	16.7	16.7	10.0	6.7	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)