

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: P476508

Luminaire Tested: **IFLD-L-SA7E-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

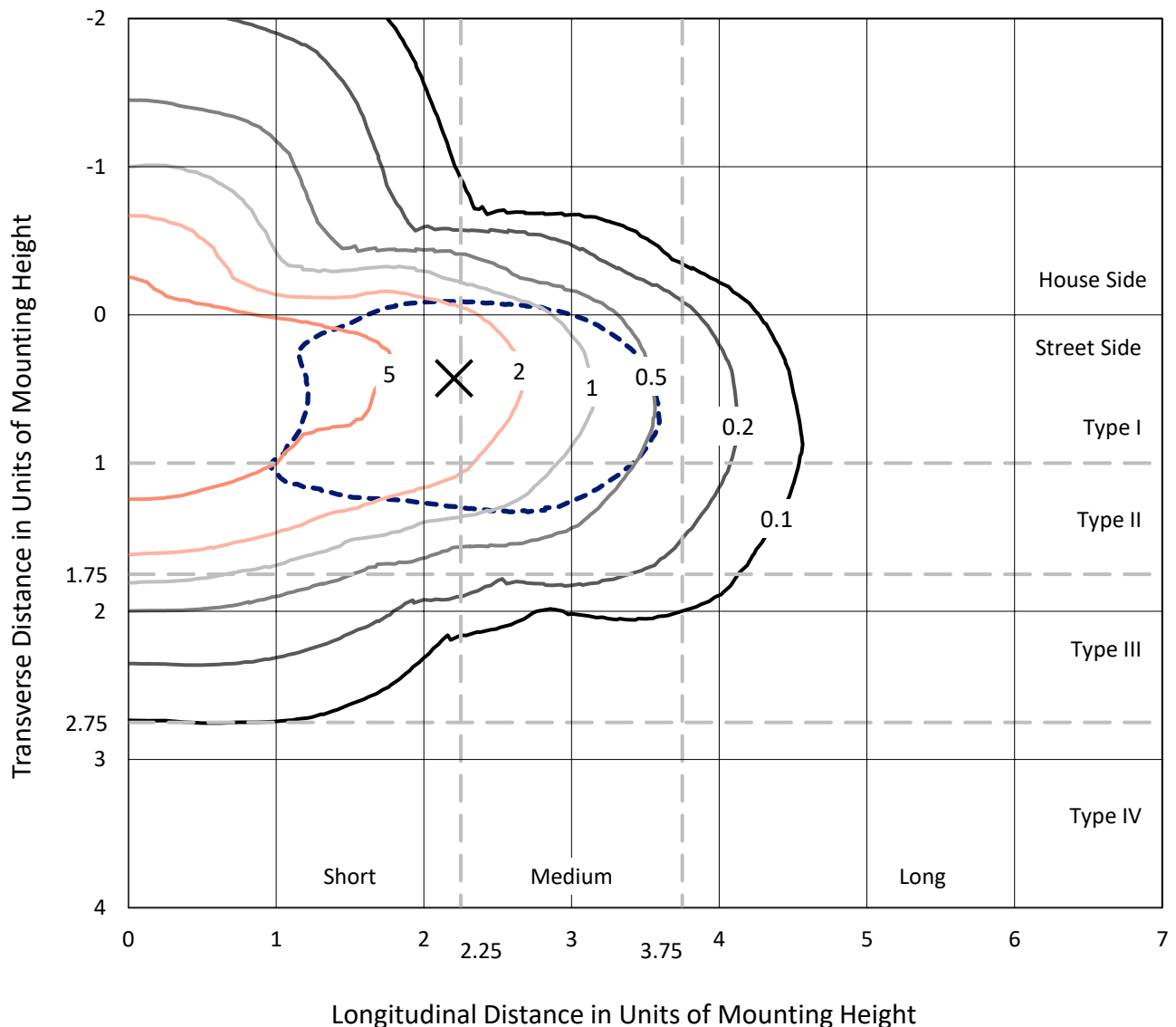
Lumens per Lamp: N/A
Luminaire Lumens: 47153.4 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

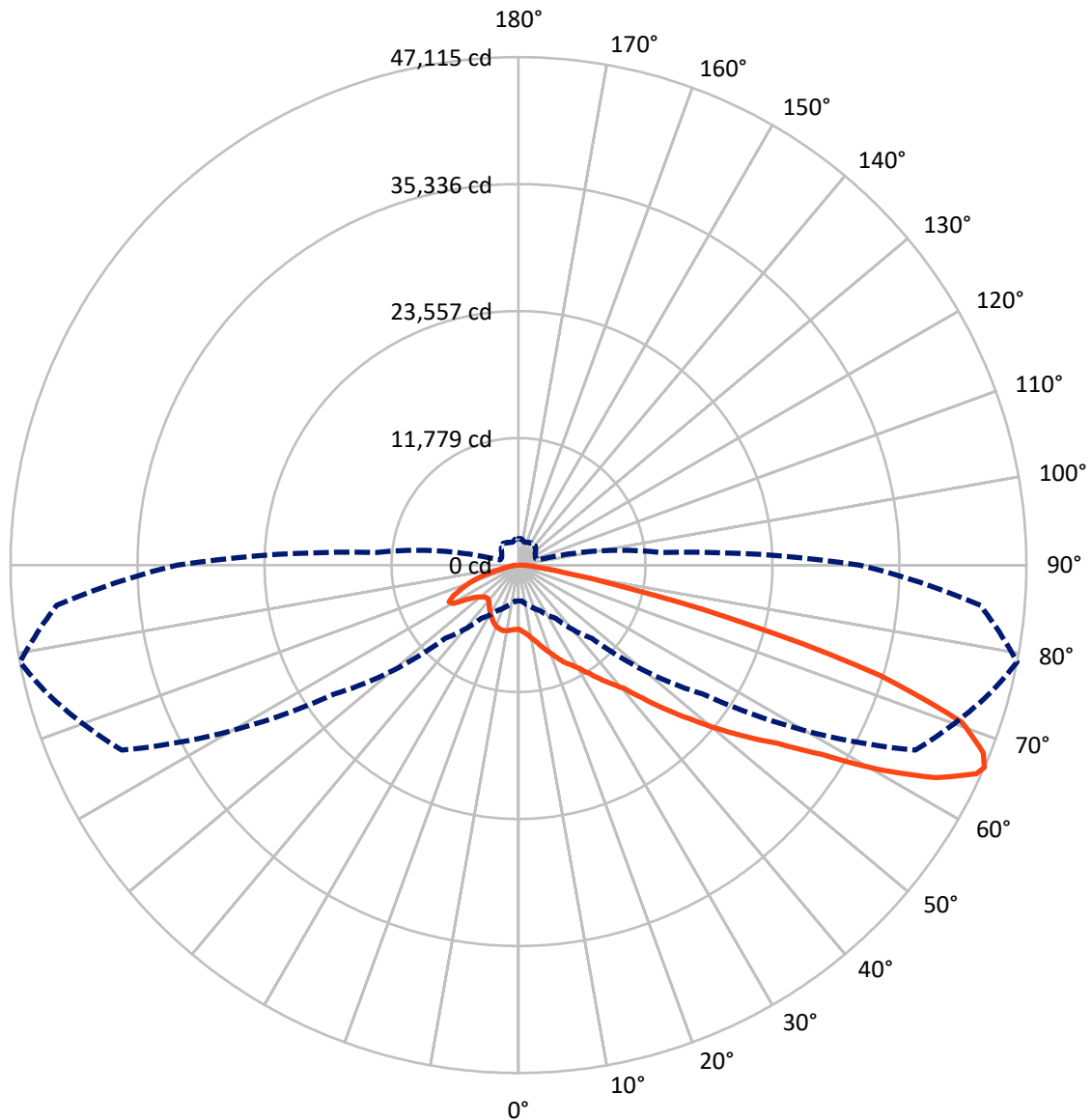
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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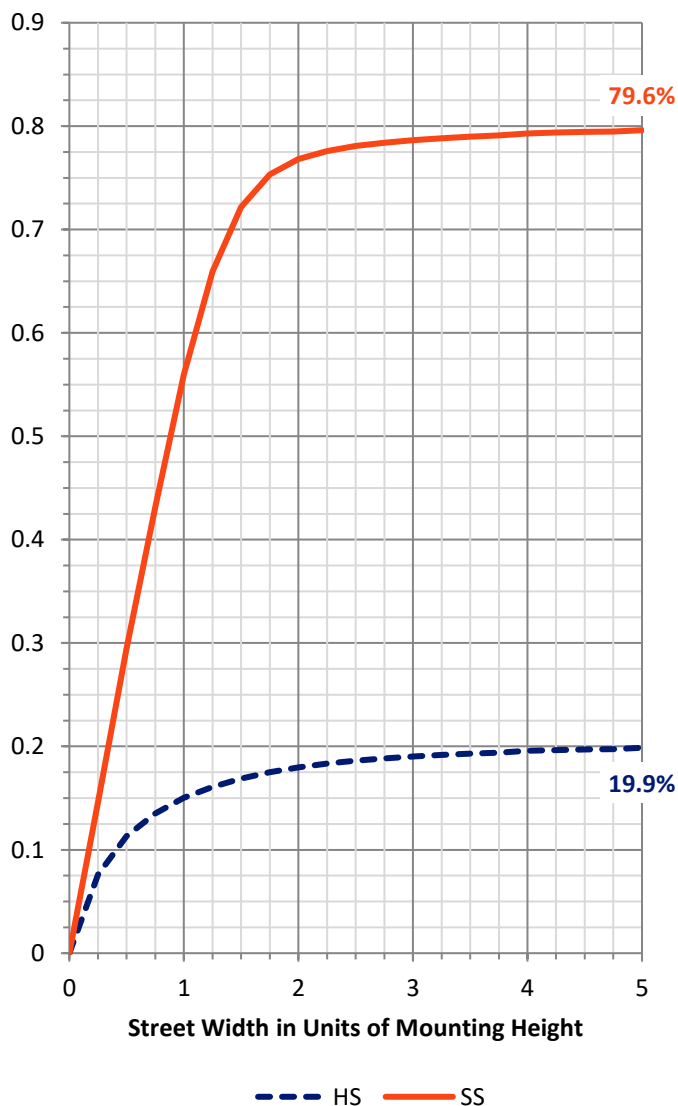
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9522.0	0.0	9522.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	37631.4	0.0	37631.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	47153.4	0.0	47153.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.5	1.2
10°-20°	1807.9	3.8
20°-30°	3103.3	6.6
30°-40°	4794.0	10.2
40°-50°	7678.8	16.3
50°-60°	11465.0	24.3
60°-70°	11780.3	25.0
70°-80°	5222.0	11.1
80°-90°	716.5	1.5
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°	47153.4	100.0
0°-180°	47153.4	100.0

Coefficient of Utilization



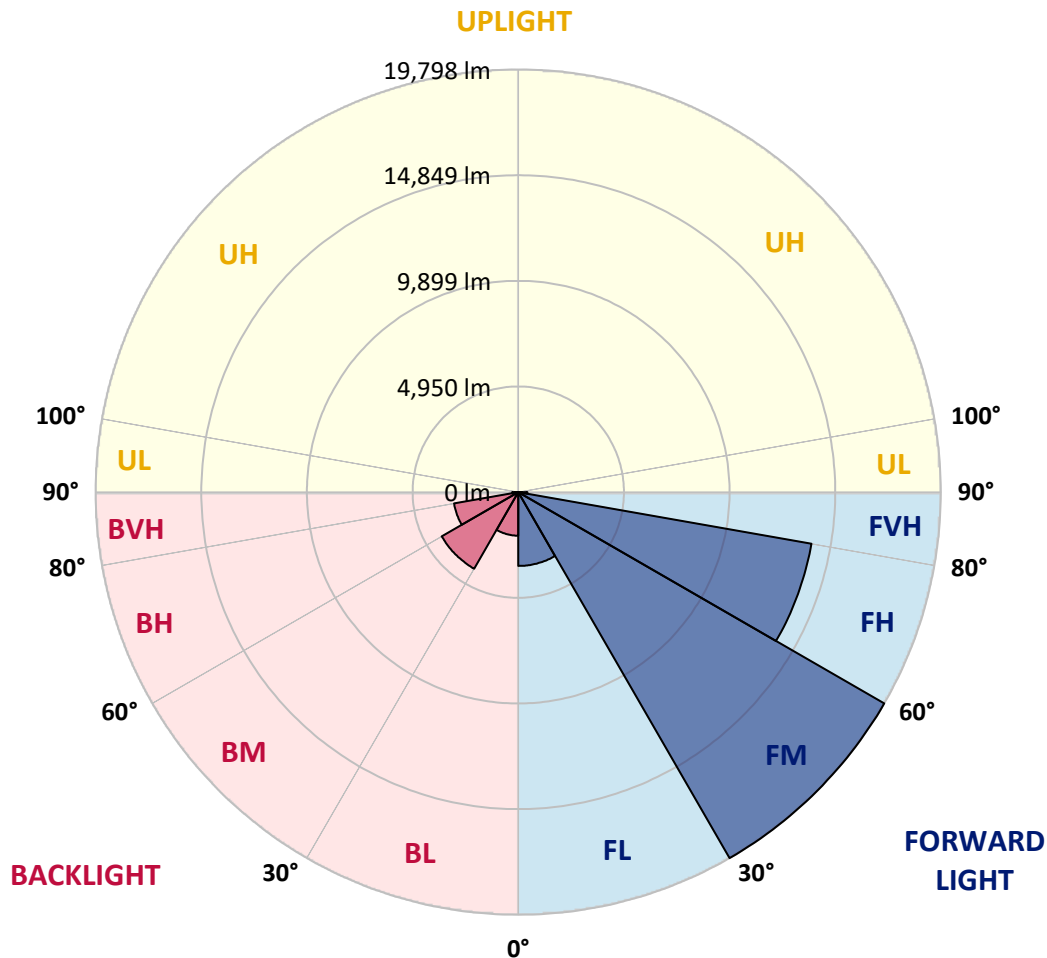
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3456.6	7.3			
FM (30°-60°)	19798.1	42.0			
FH (60°-80°)	13946.9	29.6			G5
FVH (80°-90°)	429.7	0.9			G3/500
BL (0°-30°)	2040.1	4.3	B3/2500		
BM (30°-60°)	4139.7	8.8	B3/5000		
BH (60°-80°)	3055.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	286.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2
2.5°	6332.8	6338.0	6338.0	6317.2	6322.4	6338.0	6280.9	6156.4	6156.4	6135.7	6099.4
5°	6721.8	6695.8	6659.5	6664.7	6644.0	6644.0	6581.7	6462.4	6358.7	6317.2	6208.3
7.5°	6773.6	6799.6	6794.4	6856.6	6887.7	6887.7	6918.9	6820.3	6664.7	6566.2	6457.3
10°	6877.4	6809.9	6804.8	6950.0	6996.7	7105.6	7230.1	7178.2	7048.5	6908.5	6763.3
12.5°	6939.6	6981.1	6981.1	7053.7	7162.6	7323.4	7541.2	7639.8	7437.5	7292.3	7069.3
15°	7033.0	6975.9	7141.9	7204.1	7411.6	7525.7	7836.9	8091.0	7956.2	7779.8	7427.1
17.5°	7074.5	7038.2	7131.5	7245.6	7598.3	7769.5	8148.1	8500.8	8386.7	8272.6	7909.5
20°	7287.1	7281.9	7323.4	7416.8	7670.9	8008.0	8480.0	8967.5	9009.0	8801.6	8308.9
22.5°	7805.8	7738.3	7738.3	7702.0	7810.9	8158.4	8796.4	9470.6	9657.4	9413.6	8760.1
25°	8282.9	8376.3	8319.2	8153.3	8111.8	8293.3	9024.6	10004.9	10253.8	10025.6	9372.1
27.5°	8894.9	8926.1	9024.6	8801.6	8516.3	8573.4	9273.6	10305.7	10819.1	10513.1	9719.6
30°	9776.7	9719.6	9698.9	9449.9	9076.5	8998.7	9558.8	10746.5	11560.8	11130.3	10129.3
32.5°	10373.1	10513.1	10508.0	10165.6	9714.4	9543.3	9911.5	11161.5	12354.4	11955.0	10886.6
35°	11555.6	11700.9	11586.8	11083.7	10554.6	10212.3	10419.8	11700.9	13262.0	12950.8	11529.7
37.5°	13064.9	13407.2	13163.5	12235.1	11488.2	11114.8	11125.2	12286.9	14190.4	13936.3	12219.5
40°	14107.4	14569.0	14231.9	13360.6	12567.0	12214.3	12074.3	12981.9	15300.3	15030.6	13298.3
42.5°	15398.9	15782.7	15606.3	14745.4	13817.0	13516.2	13236.1	14143.7	16996.3	16871.9	14683.1
45°	16809.6	16991.1	16934.1	16389.5	15357.4	15253.6	14636.4	15673.8	18993.2	19045.0	16415.4
47.5°	18121.8	18220.4	18329.3	17935.1	17292.0	17380.1	16249.5	17312.7	20932.9	21275.2	18344.8
50°	18458.9	18796.1	19050.2	19314.7	19454.8	20051.2	18028.5	19325.1	23163.1	23827.0	20492.1
52.5°	18116.6	18090.7	18863.5	19693.3	21093.7	22343.7	20450.6	21825.0	25134.0	26446.2	22457.8
55°	16560.7	16508.8	17753.6	18853.1	21586.4	23619.6	23910.0	25154.8	27514.7	29221.0	25118.5
57.5°	13837.7	13516.2	14875.0	16680.0	20518.0	23759.6	27385.0	30097.6	31176.4	33121.3	29179.5
60°	9299.5	9164.6	10466.5	12618.9	16659.2	21773.1	29464.8	36285.1	36337.0	38525.7	35481.2
62.5°	5726.0	5751.9	6586.9	8199.9	11664.6	17260.8	28567.5	41227.9	41238.3	43432.2	40667.8
65°	3744.7	3760.3	4434.5	5326.6	7287.1	11706.0	23624.7	41616.9	44645.8	46684.2	43043.2
66°	3335.0	3340.1	3921.0	4647.2	6037.1	9579.6	20865.5	40605.5	45413.4	47114.6	43012.1
67.5°	2811.1	2878.5	3345.3	3905.5	4709.4	6882.6	16555.5	37680.3	45019.3	46513.0	42037.0
70°	2199.1	2235.4	2603.6	3174.2	3532.0	3983.3	9838.9	30714.8	41207.2	43629.3	38489.4
72.5°	1763.4	1794.5	2074.6	2577.7	2868.2	2624.4	5357.7	22286.6	32550.8	35133.7	30273.9
75°	1488.5	1493.7	1628.6	2027.9	2359.9	1970.9	2852.6	14304.5	20886.2	22089.5	18547.1
77.5°	1203.3	1224.0	1317.4	1545.6	1898.3	1550.8	1701.2	8013.2	10487.2	10575.4	8573.4
80°	980.3	990.6	1047.7	1125.5	1447.0	1146.2	1151.4	3910.7	4496.7	4393.0	3485.4
82.5°	772.8	783.2	850.6	835.0	1063.2	819.5	715.7	1882.7	2069.4	2027.9	1602.6
85°	435.7	435.7	669.1	669.1	674.3	518.7	435.7	886.9	1094.4	1021.8	752.1
87.5°	140.0	145.2	202.3	212.6	337.1	233.4	212.6	331.9	518.7	456.4	269.7
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°	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2	5954.2
2.5°	6078.6	5995.7	5959.3	5840.1	5808.9	5731.1	5694.8	5648.2	5632.6	5565.2	5627.4
5°	6125.3	6099.4	5954.2	5803.8	5689.6	5637.8	5560.0	5456.3	5445.9	5352.5	5342.1
7.5°	6322.4	6234.2	5980.1	5819.3	5591.1	5461.4	5290.3	5238.4	5171.0	5139.9	5207.3
10°	6628.4	6405.4	6026.8	5622.2	5342.1	5186.6	5062.1	5025.8	5031.0	5010.2	4979.1
12.5°	6846.2	6633.6	5949.0	5456.3	5093.2	4942.8	4932.4	4968.7	5025.8	4999.8	5036.1
15°	7157.4	6758.1	5891.9	5181.4	4890.9	4849.4	4844.2	4953.2	4948.0	4948.0	4942.8
17.5°	7447.9	6882.6	5684.5	4942.8	4678.3	4709.4	4745.7	4740.5	4792.4	4813.1	4849.4
20°	7816.1	7027.8	5394.0	4704.2	4517.5	4507.1	4501.9	4507.1	4559.0	4590.1	4564.2
22.5°	8137.7	7058.9	5150.2	4476.0	4325.6	4284.1	4216.7	4284.1	4258.2	4268.5	4299.7
25°	8417.8	7064.1	4802.7	4304.8	4133.7	4040.3	3988.5	3983.3	3936.6	3931.4	3931.4
27.5°	8651.2	6887.7	4496.7	4066.3	3905.5	3817.3	3812.1	3755.1	3635.8	3558.0	3568.3
30°	8832.7	6752.9	4284.1	3858.8	3703.2	3687.6	3641.0	3511.3	3355.7	3257.2	3257.2
32.5°	9154.3	6483.2	3993.6	3646.1	3568.3	3547.6	3438.7	3324.6	3179.4	3086.0	3070.4
35°	9392.8	6234.2	3801.7	3464.6	3428.3	3386.8	3293.5	3169.0	3127.5	3106.7	3122.3
37.5°	9662.5	5954.2	3568.3	3309.0	3345.3	3267.5	3158.6	3101.6	3246.8	3210.5	3226.0
40°	10093.0	5757.1	3340.1	3215.7	3252.0	3163.8	3023.8	3003.0	3184.5	3054.9	3023.8
42.5°	10881.4	5751.9	3200.1	3075.6	3101.6	3034.1	2909.7	2899.3	2971.9	2816.3	2769.6
45°	11861.6	5933.4	3096.4	2971.9	2951.1	2940.8	2899.3	2852.6	2790.4	2588.1	2536.2
47.5°	13033.8	6229.0	3075.6	2816.3	2842.2	2930.4	2878.5	2759.2	2598.5	2468.8	2442.9
50°	14454.9	6841.1	3023.8	2702.2	2748.9	2888.9	2847.4	2681.4	2536.2	2453.2	2437.7
52.5°	16026.4	7613.9	2956.3	2525.9	2629.6	2852.6	2873.3	2717.8	2505.1	2432.5	2422.1
55°	17878.0	8754.9	2878.5	2333.9	2489.5	2816.3	2873.3	2614.0	2463.6	2463.6	2453.2
57.5°	21534.6	10808.8	2717.8	2157.6	2365.1	2748.9	2790.4	2619.2	2468.8	2468.8	2448.1
60°	26897.5	14014.1	2411.7	2022.8	2245.8	2655.5	2728.1	2541.4	2411.7	2442.9	2437.7
62.5°	31093.4	14989.1	2152.4	1893.1	2126.5	2484.4	2645.1	2458.4	2344.3	2458.4	2468.8
65°	31990.7	14003.7	1887.9	1753.1	1960.5	2318.4	2525.9	2339.1	2245.8	2468.8	2479.2
66°	31669.1	13236.1	1794.5	1711.6	1887.9	2235.4	2453.2	2297.6	2193.9	2458.4	2463.6
67.5°	30237.6	12084.7	1690.8	1623.4	1789.4	2116.1	2370.3	2240.6	2110.9	2427.3	2380.6
70°	27125.7	10248.6	1514.5	1467.8	1649.3	1919.0	2178.4	2095.4	1981.3	2235.4	2152.4
72.5°	20891.4	8189.6	1327.8	1332.9	1488.5	1716.7	1986.4	1929.4	1830.9	1960.5	1908.7
75°	12722.6	5233.2	1156.6	1167.0	1296.6	1524.8	1804.9	1763.4	1644.1	1716.7	1690.8
77.5°	5637.8	2593.3	975.1	995.8	1099.5	1343.3	1571.5	1504.1	1379.6	1395.2	1384.8
80°	2188.7	1229.2	793.5	819.5	886.9	1073.6	1301.8	1239.6	1130.7	1109.9	1099.5
82.5°	1052.9	684.6	612.0	622.4	648.3	855.8	1120.3	1042.5	897.3	803.9	803.9
85°	529.0	425.3	430.5	394.2	430.5	580.9	757.2	632.8	523.8	466.8	477.2
87.5°	212.6	212.6	212.6	181.5	191.9	274.9	352.7	238.6	217.8	129.7	129.7
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)