

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: P478290

Luminaire Tested: **IFLD-S-SA6C-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

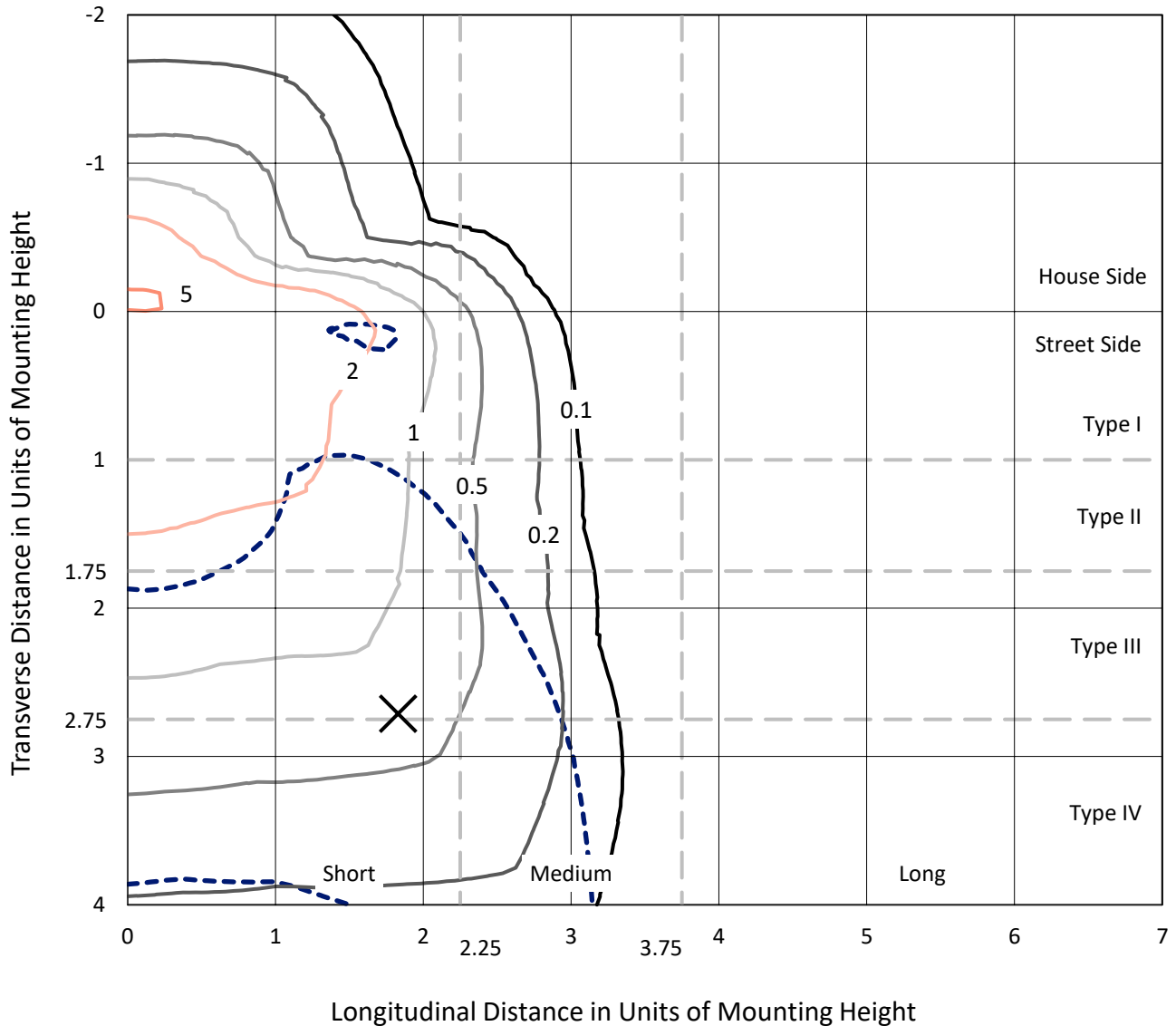
Lumens per Lamp: N/A
Luminaire Lumens: 31292.8 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

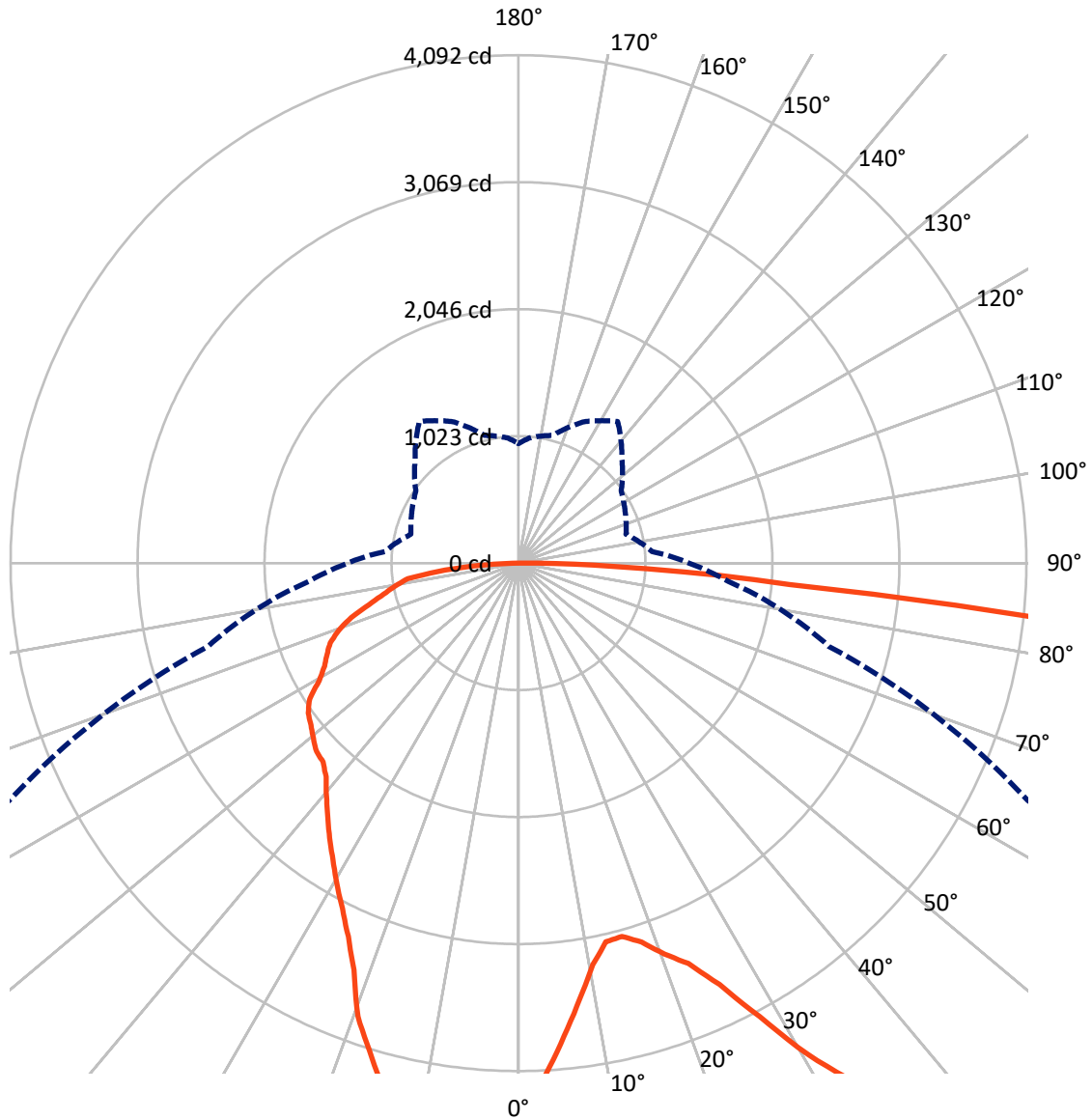
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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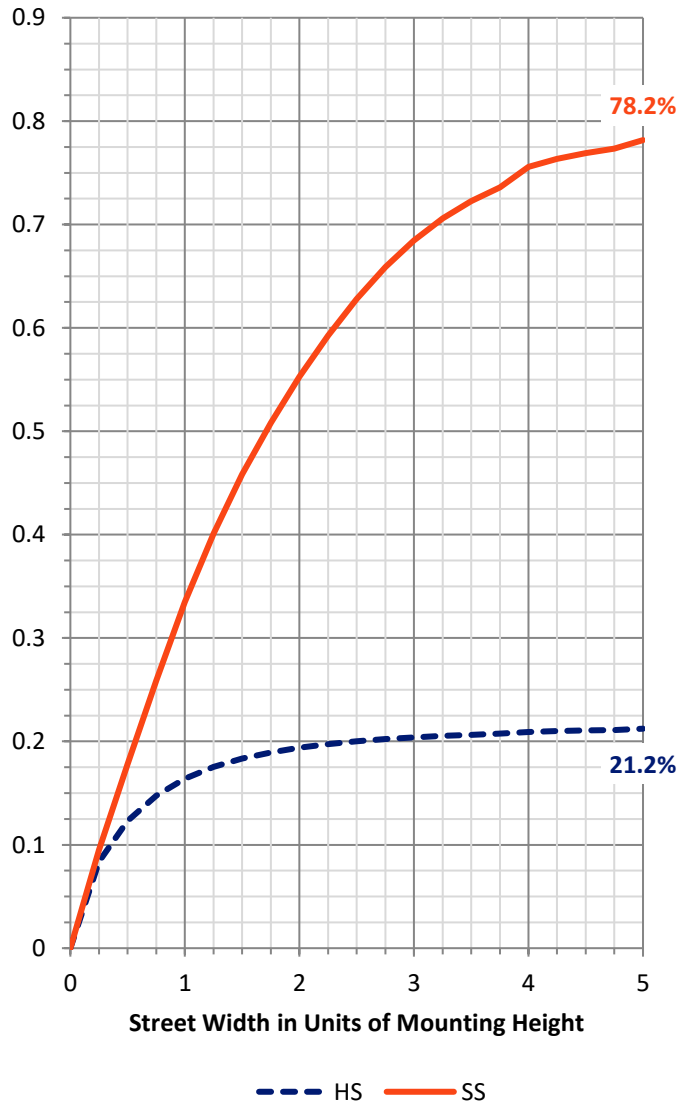
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6759.6	0.0	6759.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24533.2	0.0	24533.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	31292.8	0.0	31292.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.1	1.3
10°-20°	1158.8	3.7
20°-30°	1907.2	6.1
30°-40°	2852.2	9.1
40°-50°	4228.3	13.5
50°-60°	6093.4	19.5
60°-70°	7776.0	24.8
70°-80°	6051.0	19.3
80°-90°	811.8	2.6
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°	31292.8	100.0
0°-180°	31292.8	100.0

Coefficient of Utilization



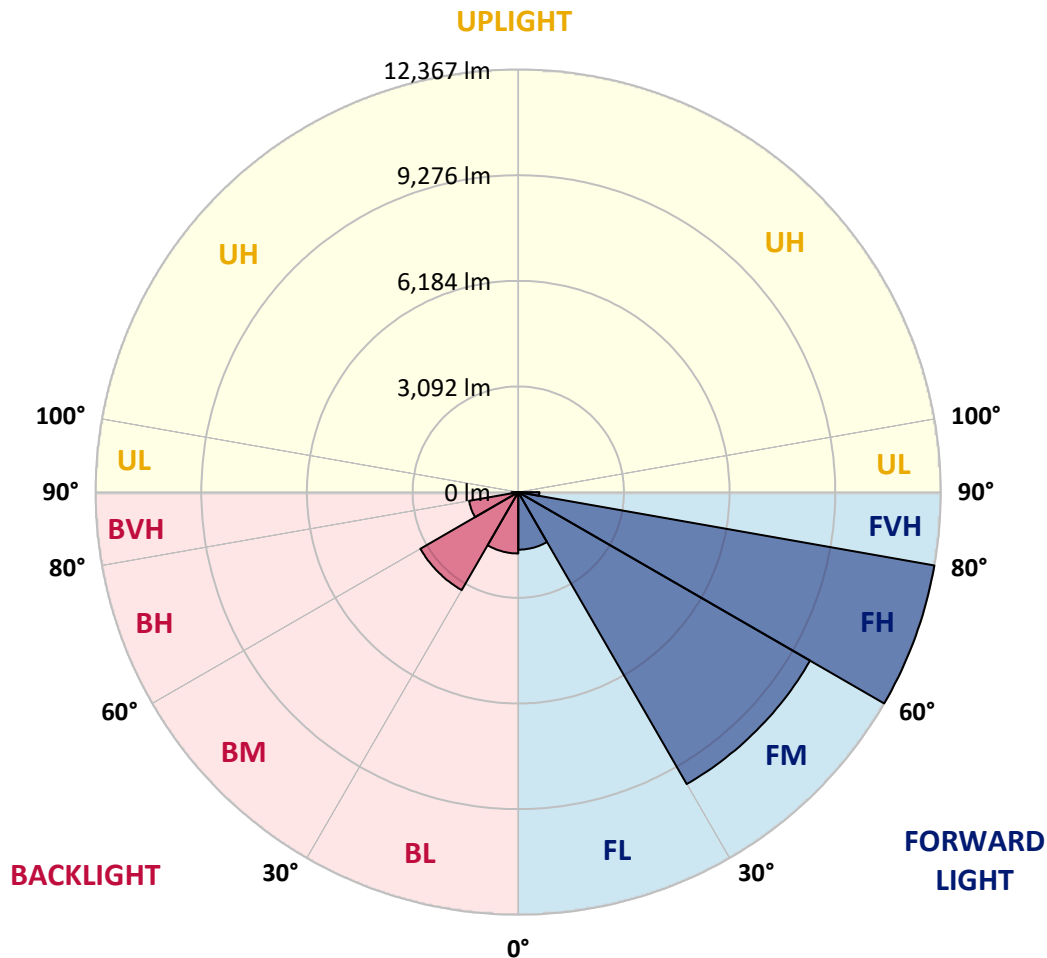
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.1	5.4			
FM (30°-60°)	9863.7	31.5			
FH (60°-80°)	12367.5	39.5			G5
FVH (80°-90°)	617.9	2.0			G4/750
BL (0°-30°)	1796.0	5.7	B3/2500		
BM (30°-60°)	3310.2	10.6	B3/5000		
BH (60°-80°)	1459.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	193.9	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3
2.5°	4019.8	4033.1	4076.1	4086.0	4132.3	4105.8	4162.1	4261.3	4317.6	4400.3	4499.6
5°	3702.2	3646.0	3672.4	3775.0	3827.9	3841.2	3900.7	4069.4	4175.3	4297.7	4483.0
7.5°	3328.3	3318.4	3371.4	3437.5	3543.4	3553.3	3685.7	3834.5	4052.9	4324.2	4542.6
10°	3073.6	3116.6	3146.4	3215.9	3288.6	3288.6	3457.4	3715.4	3963.6	4224.9	4555.8
12.5°	3060.4	3033.9	3040.5	3076.9	3129.8	3196.0	3354.8	3586.4	3900.7	4205.1	4612.0
15°	3103.4	3113.3	3053.7	3100.1	3119.9	3143.1	3318.4	3579.8	3861.0	4274.6	4708.0
17.5°	3331.7	3275.4	3182.8	3139.8	3209.2	3209.2	3328.3	3533.5	3867.6	4311.0	4846.9
20°	3510.3	3510.3	3358.1	3311.8	3361.4	3351.5	3434.2	3586.4	3900.7	4383.8	5002.4
22.5°	3811.4	3854.4	3603.0	3507.0	3503.7	3530.2	3603.0	3732.0	3993.4	4486.3	5151.3
25°	4244.8	4254.7	3963.6	3864.3	3758.4	3801.5	3814.7	3943.7	4076.1	4605.4	5320.1
27.5°	4727.8	4721.2	4453.2	4205.1	4135.6	4145.5	4072.8	4158.8	4198.5	4641.8	5561.6
30°	5263.8	5204.3	5002.4	4651.7	4595.5	4532.6	4373.8	4370.5	4453.2	4846.9	5895.7
32.5°	5614.5	5538.4	5399.5	5148.0	4992.5	4999.1	4747.7	4744.4	4671.6	5071.9	6186.9
35°	5958.6	5842.8	5806.4	5548.3	5392.8	5409.4	5207.6	5181.1	5048.8	5412.7	6666.6
37.5°	6372.2	6269.6	6325.8	6130.6	5938.7	5859.3	5766.7	5733.6	5561.6	5892.4	7321.7
40°	6828.7	6795.6	6759.3	6663.3	6547.5	6554.1	6454.9	6421.8	6167.0	6471.4	7950.3
42.5°	7444.1	7318.4	7129.8	7192.7	7252.2	7315.1	7282.0	7196.0	6931.3	7060.3	8651.7
45°	8016.5	7851.1	7503.7	7523.5	7768.3	7818.0	8218.3	8208.4	7675.7	7808.0	9449.1
47.5°	8403.6	8327.5	8119.0	8095.9	8446.6	8443.3	9164.5	9164.5	8459.8	8552.5	10306.0
50°	8979.3	8780.7	8691.4	8807.2	8985.9	9108.3	10130.6	10193.5	9230.7	9330.0	11427.5
52.5°	9654.2	9406.0	9181.1	9478.8	9796.5	9875.9	11086.8	11060.3	9822.9	10233.2	12741.0
55°	10213.3	10087.6	9932.1	10104.1	10623.6	10722.8	12046.2	11801.4	10415.1	10980.9	13372.9
57.5°	10865.1	10941.2	10974.3	10931.3	11550.0	11705.5	13141.3	12439.9	10924.6	11483.8	13743.5
60°	11847.7	11894.0	11937.0	12039.6	12694.7	12913.1	14008.2	13240.6	11245.6	11774.9	13773.3
62.5°	13343.2	13164.5	13260.4	13614.5	14140.5	14388.6	15285.2	13803.0	11490.4	11950.3	12800.6
65°	15053.6	14812.1	14712.9	15169.4	16532.5	16334.0	16879.9	14223.2	11136.4	11295.2	10855.2
67.5°	16787.3	16813.8	16559.0	17475.5	19146.3	19146.3	18362.1	14425.0	10176.9	9154.6	7612.8
70°	18163.6	18246.3	18385.3	20162.0	22808.8	23209.1	20198.4	13597.9	8221.6	6094.2	4162.1
72.5°	18143.8	17895.6	18607.0	21879.1	26137.1	25802.9	20582.1	10752.6	5131.5	2984.3	1909.0
73°	17736.8	17528.4	18305.9	21862.5	26272.8	25958.4	20300.9	9912.2	4526.0	2587.2	1697.3
75°	14484.6	14107.4	15430.8	19801.3	24307.5	24549.0	17247.2	6464.8	2481.4	1594.7	1194.4
77.5°	6603.8	6769.2	8492.9	13283.6	18732.7	19017.2	11338.2	2795.7	1359.8	1118.3	880.1
80°	2120.7	2226.6	3305.2	6603.8	11741.8	12254.7	5240.7	1270.5	969.4	856.9	658.4
82.5°	810.6	807.3	1386.3	2746.1	5564.9	5892.4	1915.6	774.2	721.3	631.9	466.5
85°	284.5	297.8	522.7	1085.2	2190.2	2292.8	665.0	430.1	499.6	423.5	268.0
87.5°	99.3	102.6	185.3	393.7	754.3	797.3	185.3	172.0	248.1	244.8	135.6
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°	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3	4486.3
2.5°	4532.6	4562.4	4572.3	4691.4	4691.4	4691.4	4737.8	4737.8	4724.5	4691.4	4770.8
5°	4552.5	4605.4	4708.0	4810.6	4837.0	4860.2	4923.0	4870.1	4890.0	4856.9	4886.6
7.5°	4608.7	4681.5	4873.4	4936.3	4893.3	4942.9	4876.7	4840.3	4803.9	4817.2	4770.8
10°	4704.7	4797.3	4886.6	5002.4	4919.7	4870.1	4734.5	4701.4	4585.6	4545.9	4582.3
12.5°	4823.8	4936.3	5088.5	5045.5	4886.6	4744.4	4598.8	4459.8	4390.4	4291.1	4317.6
15°	4942.9	5071.9	5095.1	5022.3	4823.8	4645.1	4380.4	4185.2	4115.8	4026.4	4072.8
17.5°	5071.9	5194.3	5154.6	4966.0	4698.1	4426.8	4125.7	3933.8	3788.2	3732.0	3732.0
20°	5263.8	5323.4	5260.5	4873.4	4545.9	4188.6	3897.4	3679.0	3533.5	3510.3	3473.9
22.5°	5412.7	5508.6	5227.4	4737.8	4324.2	3877.6	3543.4	3460.7	3417.7	3381.3	3335.0
25°	5604.6	5601.3	5167.9	4612.0	3943.7	3507.0	3305.2	3298.6	3278.7	3265.5	3328.3
27.5°	5786.6	5710.5	5098.4	4301.0	3550.0	3225.8	3116.6	3189.4	3219.2	3199.3	3225.8
30°	6074.4	5948.7	4999.1	3970.2	3202.6	2941.3	2961.1	3060.4	3110.0	3139.8	3100.1
32.5°	6378.8	6186.9	4794.0	3626.1	2894.9	2762.6	2808.9	2911.5	2971.0	3004.1	3040.5
35°	6818.8	6372.2	4585.6	3176.2	2673.3	2653.4	2679.9	2736.1	2822.1	2845.3	2855.2
37.5°	7361.4	6653.4	4304.4	2815.5	2501.2	2524.4	2550.8	2570.7	2574.0	2617.0	2600.5
40°	7904.0	6891.6	3894.1	2471.4	2322.6	2448.3	2435.1	2398.7	2368.9	2329.2	2319.3
42.5°	8380.4	7100.0	3437.5	2180.3	2163.8	2368.9	2325.9	2233.2	2163.8	2134.0	2084.4
45°	8916.4	7394.5	2977.6	1998.3	2041.3	2272.9	2259.7	2117.4	2028.1	1922.2	1909.0
47.5°	9611.2	7702.2	2537.6	1809.7	1925.5	2236.5	2243.2	2061.2	1932.2	1789.9	1770.0
50°	10501.2	8145.5	2203.5	1730.3	1856.1	2183.6	2193.5	1985.1	1816.4	1670.8	1657.6
52.5°	11354.8	8598.8	1925.5	1607.9	1809.7	2120.7	2143.9	1915.6	1720.4	1538.4	1548.4
55°	11784.9	8433.4	1687.3	1518.6	1703.9	2018.2	2104.2	1866.0	1574.8	1449.1	1445.8
57.5°	11880.8	8026.4	1498.7	1426.0	1614.5	1909.0	2038.0	1717.1	1508.7	1402.8	1389.6
60°	11566.5	7315.1	1349.9	1326.7	1502.1	1796.5	1885.8	1637.7	1442.5	1356.5	1336.6
62.5°	10792.3	6577.3	1247.3	1280.4	1406.1	1674.1	1789.9	1581.5	1379.6	1320.1	1277.1
65°	8850.2	5409.4	1164.6	1191.1	1306.9	1555.0	1730.3	1518.6	1323.4	1267.2	1263.8
67.5°	6130.6	3728.7	1098.4	1148.0	1227.5	1469.0	1670.8	1449.1	1250.6	1230.8	1204.3
70°	3139.8	1988.4	1012.4	1052.1	1141.4	1359.8	1564.9	1376.3	1174.5	1171.2	1138.1
72.5°	1591.4	1164.6	913.1	972.7	1035.6	1217.5	1432.6	1280.4	1078.6	1042.2	989.2
73°	1376.3	1078.6	896.6	949.5	1009.1	1177.8	1392.9	1257.2	1065.3	1012.4	962.8
75°	1002.5	850.3	804.0	856.9	903.2	1062.0	1260.5	1151.4	979.3	923.1	876.8
77.5°	751.0	655.1	668.3	727.9	767.6	916.5	1121.6	1042.2	886.7	810.6	790.7
80°	552.5	499.6	552.5	608.8	638.5	807.3	1022.3	903.2	747.7	661.7	645.2
82.5°	393.7	363.9	426.8	463.2	476.4	668.3	919.8	721.3	565.8	453.3	416.9
85°	225.0	221.7	287.8	284.5	294.5	390.4	605.5	479.7	363.9	277.9	271.3
87.5°	99.3	109.2	145.6	115.8	122.4	185.3	258.1	178.7	148.9	82.7	62.9
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)