

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: P317764

Luminaire Tested: **GAN-SA0B-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57832 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

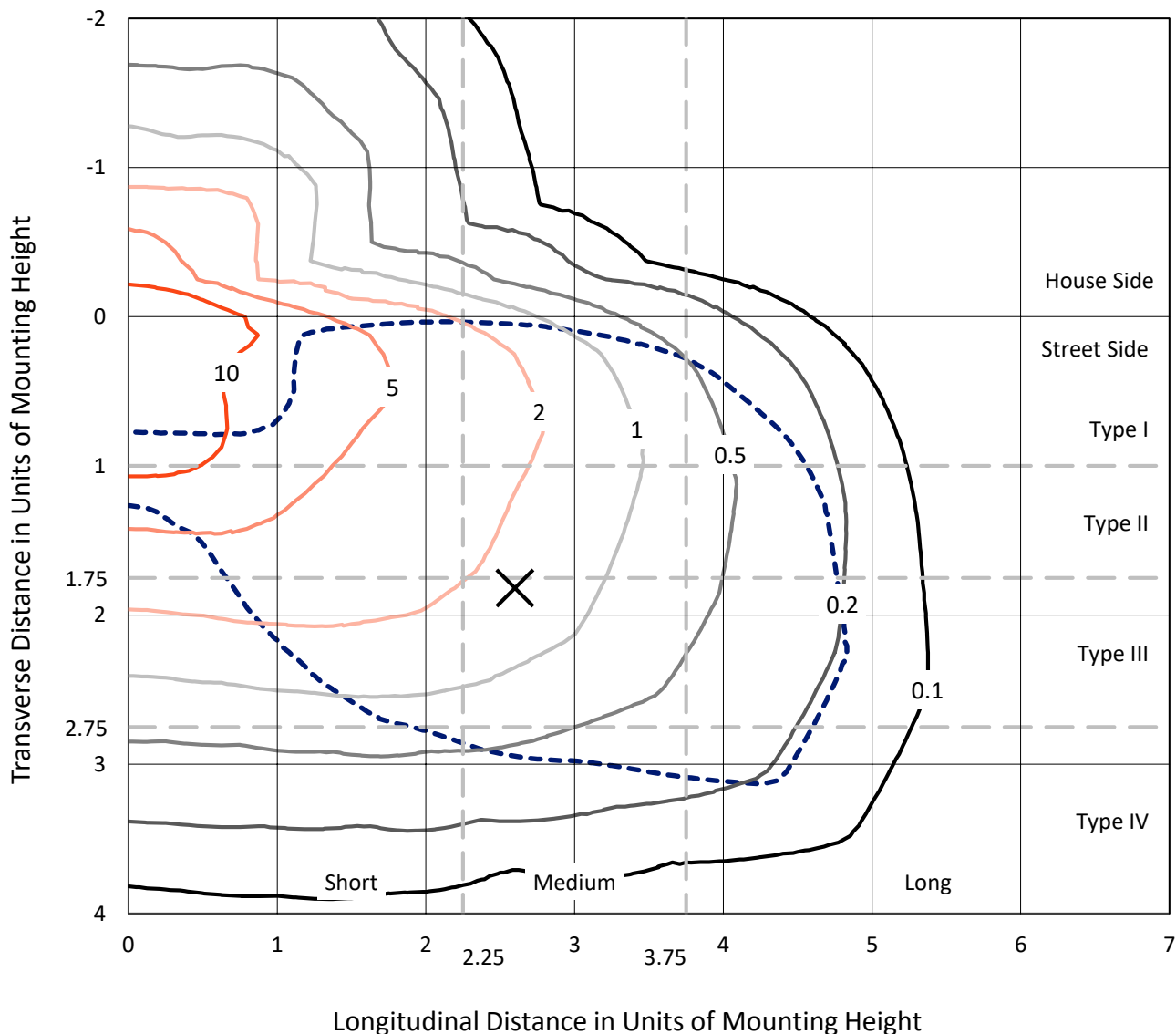
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

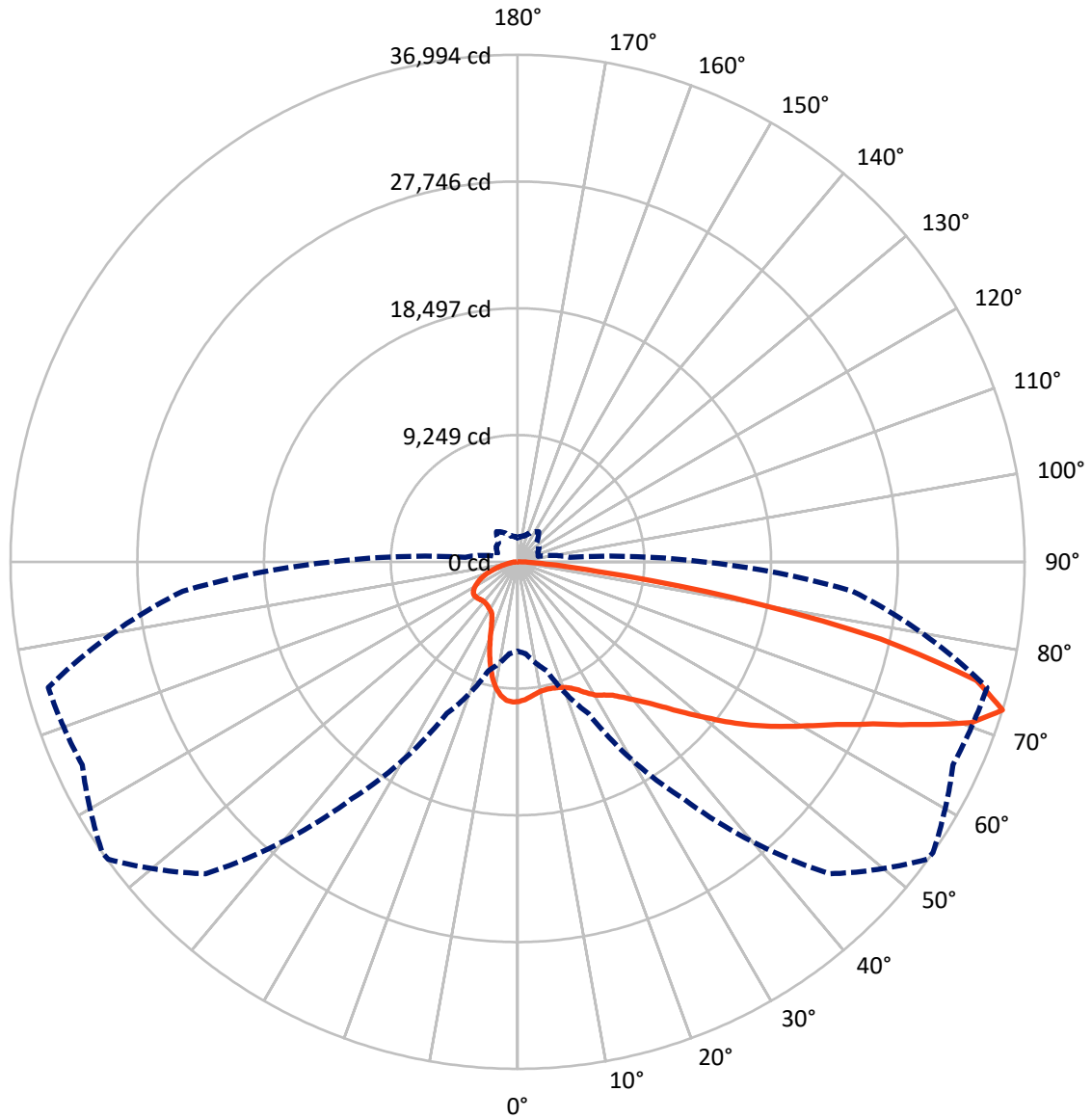
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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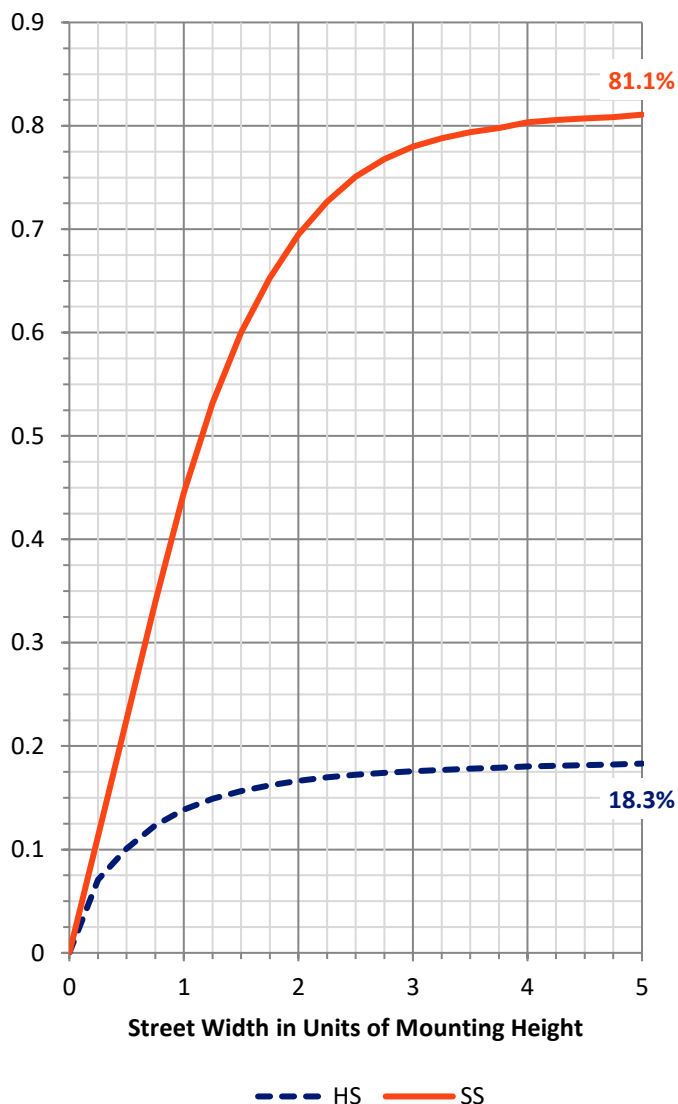
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10749.1	0.0	10749.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	47082.9	0.0	47082.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	57832.0	0.0	57832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.0	1.6
10°-20°	2457.4	4.2
20°-30°	4051.6	7.0
30°-40°	5993.4	10.4
40°-50°	8365.5	14.5
50°-60°	10892.1	18.8
60°-70°	13386.1	23.1
70°-80°	10493.1	18.1
80°-90°	1269.8	2.2
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°	57832.0	100.0
0°-180°	57832.0	100.0

Coefficient of Utilization

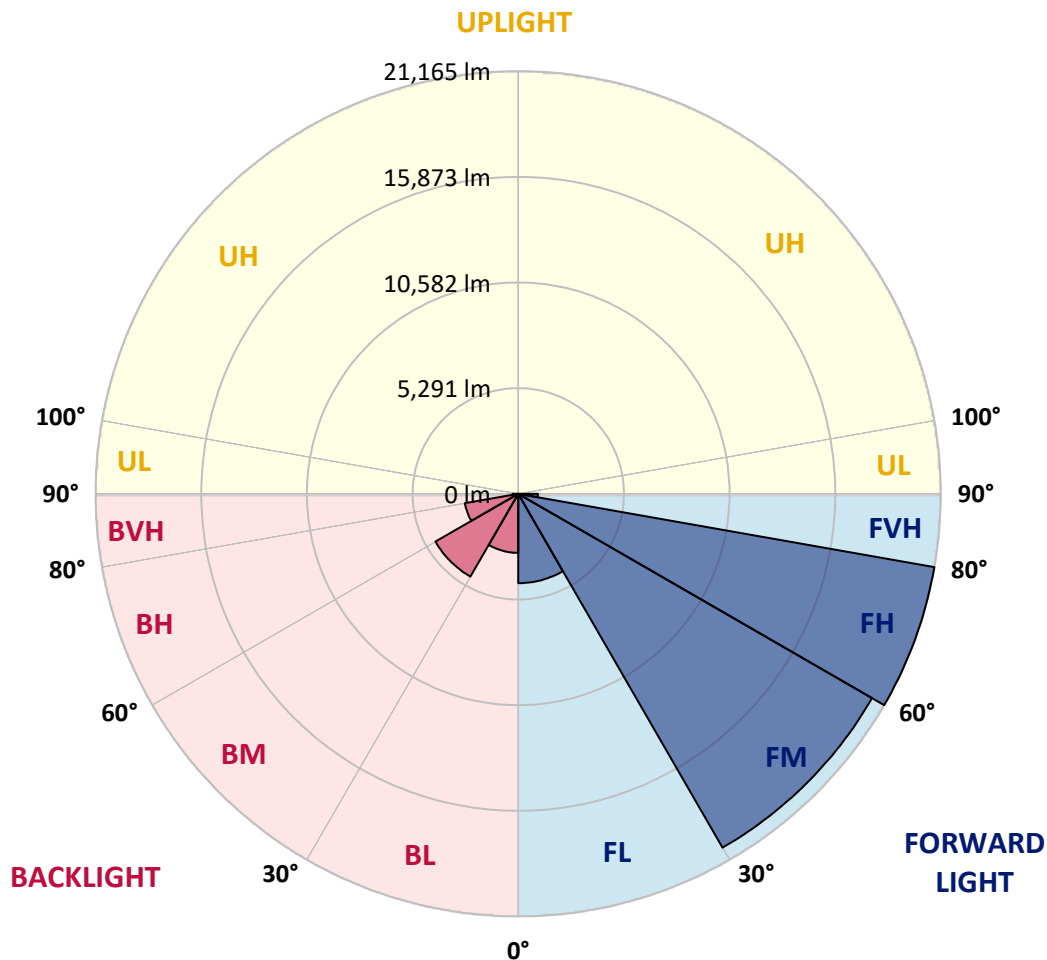


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4474.5	7.7			
FM (30°-60°)	20462.1	35.4			
FH (60°-80°)	21164.6	36.6			G5
FVH (80°-90°)	981.8	1.7			G5
BL (0°-30°)	2957.5	5.1	B4/5000		
BM (30°-60°)	4788.9	8.3	B3/5000		
BH (60°-80°)	2714.6	4.7	B4/5000		G4/5000
BVH (80°-90°)	288.1	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3
2.5°	9868.3	9844.8	9874.1	9915.1	9960.1	10020.6	10055.8	10071.4	10132.0	10155.4	10206.2
5°	9411.2	9399.5	9448.3	9518.6	9618.2	9758.9	9872.2	9893.6	10053.8	10167.1	10270.6
7.5°	9079.1	9079.1	9135.8	9219.7	9331.1	9520.6	9680.7	9710.0	9981.5	10225.7	10417.1
10°	8815.4	8825.2	8891.6	8991.2	9122.1	9323.3	9536.2	9569.4	9962.0	10362.4	10667.2
12.5°	8639.6	8663.0	8723.6	8813.5	8975.6	9219.7	9489.3	9534.2	10003.0	10557.8	10968.0
15°	8750.9	8790.0	8795.9	8833.0	8922.8	9188.5	9516.7	9563.5	10090.9	10757.0	11309.8
17.5°	9239.3	9253.0	9192.4	9114.3	9071.3	9241.2	9598.7	9647.5	10196.4	10954.3	11638.0
20°	9981.5	9973.7	9842.9	9631.9	9413.1	9440.5	9733.5	9784.3	10339.0	11128.2	11966.1
22.5°	10919.1	10891.8	10690.6	10301.9	9928.8	9772.5	9969.8	10012.8	10553.9	11376.2	12317.7
25°	12056.0	11995.4	11729.8	11208.2	10659.4	10257.0	10325.3	10366.4	10866.4	11653.6	12640.0
27.5°	13255.3	13194.8	12856.9	12225.9	11495.4	10868.4	10815.6	10850.8	11221.9	11858.7	12878.3
30°	14509.4	14444.9	14136.3	13429.2	12382.2	11501.2	11272.7	11286.4	11471.9	11970.0	13073.7
32.5°	15769.3	15708.7	15363.0	14542.6	13345.2	12181.0	11602.8	11585.2	11622.3	12085.3	13294.4
35°	17046.8	17070.2	16665.9	15757.6	14411.7	12936.9	11993.5	11956.4	11874.3	12321.6	13606.9
37.5°	18414.1	18398.5	17875.0	16925.7	15527.1	13757.3	12554.1	12548.2	12265.0	12769.0	14097.2
40°	19328.3	19338.0	19019.6	18121.1	16654.1	14665.6	13272.9	13259.2	12888.1	13439.0	14739.9
42.5°	19685.7	19750.2	19832.2	19261.8	17834.0	15718.5	14130.4	14110.9	13757.3	14400.0	15495.8
45°	19711.1	19840.0	20347.9	20275.6	19029.4	16923.7	15226.3	15171.6	14917.6	15677.5	16398.3
47.5°	19492.3	19625.2	20469.0	20879.2	20097.9	18195.3	16507.6	16464.7	16245.9	17275.3	17374.9
50°	19013.8	19140.7	20219.0	21174.2	20976.9	19418.1	17984.4	17871.1	17753.9	19121.2	18492.2
52.5°	18117.2	18361.4	19885.0	21244.5	21502.3	20504.2	19537.3	19463.0	19527.5	21068.7	19611.5
55°	15993.9	16267.4	19023.5	21185.9	21891.0	21416.4	21090.2	21086.3	21420.3	23111.9	20812.8
57.5°	14804.3	14997.7	17269.4	21086.3	22352.0	22322.7	22627.4	22664.6	23315.0	25336.7	22070.7
60°	14132.4	14335.5	16380.7	20717.1	23066.9	23494.7	24196.0	24270.2	25241.0	27799.9	23584.6
62.5°	13521.0	13743.7	15829.8	19965.0	23908.8	25170.7	26075.1	26141.5	27280.3	30331.4	25047.6
65°	12476.0	12727.9	15023.1	19470.9	24674.5	27356.5	28464.0	28508.9	29622.3	32984.0	26166.9
67.5°	10999.2	11229.7	13501.5	18378.9	25241.0	30011.1	31640.1	31665.5	31944.9	34857.3	26739.2
70°	9274.4	9362.3	11333.3	16124.8	24571.0	32493.7	35121.0	35126.8	34062.3	36056.6	26645.5
72.5°	6516.3	6723.4	8227.5	12206.4	21115.6	32191.0	36927.8	36994.2	35046.8	35451.1	24516.3
75°	3996.5	4215.3	5160.7	7397.3	13396.0	25317.2	34118.9	34579.9	33200.9	31608.9	20027.6
77.5°	2672.2	2754.2	3367.6	4313.0	6069.0	14566.0	26231.3	27098.6	27581.1	23051.3	12808.0
80°	1490.4	1646.7	2232.7	2680.0	2699.5	5787.7	15728.3	15931.4	15345.4	9178.7	3951.6
82.5°	789.1	875.1	1490.4	1574.4	1472.8	1937.7	5862.0	5867.8	4902.9	2461.2	1174.0
85°	611.4	683.7	1021.6	961.0	752.0	859.5	1933.8	2039.3	1668.1	1007.9	382.9
87.5°	304.7	378.9	693.4	609.4	295.0	246.1	691.5	738.4	658.3	394.6	138.7
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°	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3	10200.3
2.5°	10225.7	10243.3	10264.8	10241.3	10233.5	10202.3	10149.5	10137.8	10110.5	10112.4	10128.0
5°	10315.6	10344.9	10333.1	10243.3	10135.9	9985.5	9829.2	9696.4	9608.5	9602.6	9596.7
7.5°	10487.5	10507.0	10415.2	10159.3	9858.5	9510.8	9182.6	8895.5	8721.6	8678.7	8668.9
10°	10757.0	10753.1	10501.1	9985.5	9385.8	8764.6	8237.2	7838.7	7606.3	7537.9	7520.3
12.5°	11057.8	11012.9	10530.4	9669.0	8717.7	7856.3	7188.3	6744.9	6502.7	6424.5	6405.0
15°	11368.4	11257.1	10458.2	9196.3	7897.3	6877.7	6176.4	5766.2	5635.4	5592.4	5584.6
17.5°	11657.5	11442.6	10251.1	8555.6	6961.7	5903.0	5356.0	5192.0	5223.2	5279.9	5281.8
20°	11940.7	11567.7	9919.0	7746.9	5975.3	5100.2	4914.6	5035.7	5184.2	5299.4	5315.0
22.5°	12220.1	11655.6	9491.3	6813.2	5092.3	4648.9	4779.8	5000.5	5170.5	5295.5	5317.0
25°	12454.5	11677.0	8901.4	5817.0	4479.0	4479.0	4715.4	4924.4	5092.3	5215.4	5236.9
27.5°	12540.4	11532.5	8069.2	4895.1	4170.4	4400.9	4625.5	4799.3	4941.9	5072.8	5096.3
30°	12573.6	11264.9	7108.2	4154.7	4043.4	4316.9	4504.4	4652.8	4787.6	4910.7	4932.2
32.5°	12579.5	10942.6	6088.5	3734.8	3955.5	4229.0	4354.0	4484.9	4629.4	4678.2	4686.1
35°	12616.6	10561.7	5014.2	3519.9	3873.5	4146.9	4246.6	4340.3	4105.9	4123.5	4139.1
37.5°	12724.0	10184.7	4115.7	3398.8	3820.7	4104.0	4223.1	3883.2	3699.6	3656.6	3650.8
40°	12925.2	9782.3	3449.6	3301.1	3801.2	4125.4	4072.7	3625.4	3309.0	3072.6	3037.4
42.5°	13204.6	9348.7	3023.8	3236.7	3814.9	4229.0	3863.7	3377.3	2851.9	2699.5	2680.0
45°	13519.0	8893.5	2793.3	3191.8	3861.7	4309.1	3820.7	3047.2	2639.0	2523.7	2513.9
47.5°	13823.8	8336.8	2674.1	3172.2	3926.2	4244.6	3639.1	2945.6	2537.4	2476.8	2482.7
50°	14173.4	7834.8	2601.8	3150.7	3982.9	4203.6	3434.0	2892.9	2498.3	2572.5	2650.7
52.5°	14468.4	7315.2	2537.4	3107.8	4004.3	4131.3	3381.2	2902.7	2498.3	2640.9	2715.1
55°	14818.0	6922.6	2463.2	3017.9	3963.3	3926.2	3344.1	2961.3	2527.6	2437.8	2445.6
57.5°	15269.2	6793.7	2381.1	2877.3	3826.6	3627.3	3326.5	3017.9	2510.0	2453.4	2472.9
60°	15894.3	6930.4	2347.9	2693.7	3613.7	3392.9	3328.5	2988.6	2387.0	2289.3	2291.3
62.5°	16490.1	7082.8	2346.0	2578.4	3351.9	3183.9	3283.6	2892.9	2324.5	2267.8	2289.3
65°	16685.4	6928.5	2252.2	2449.5	3057.0	2933.9	3201.5	2791.3	2277.6	2191.6	2187.7
67.5°	16423.6	6449.9	2062.7	2240.5	2719.0	2642.9	3094.1	2670.2	2203.4	2133.0	2121.3
70°	15646.2	5381.4	1828.3	1965.1	2334.2	2314.7	2924.1	2529.6	2103.7	2043.2	1992.4
72.5°	13554.2	3834.4	1541.2	1634.9	1900.6	1963.1	2689.7	2346.0	1963.1	1832.2	1754.1
75°	11132.1	2838.2	1265.8	1285.3	1443.5	1613.5	2367.4	2131.1	1797.1	1574.4	1513.8
77.5°	6817.1	1736.5	1007.9	1015.7	1035.3	1287.2	1949.4	1890.8	1586.1	1312.6	1269.7
80°	2207.3	947.4	728.6	765.7	707.1	943.5	1508.0	1609.5	1361.5	1097.8	1050.9
82.5°	839.9	552.8	492.2	517.6	490.3	632.9	1099.7	1289.2	1115.4	902.4	734.5
85°	406.3	312.5	291.0	326.2	302.8	324.3	703.2	949.3	845.8	588.0	546.9
87.5°	144.5	138.7	111.3	150.4	128.9	115.2	214.9	478.6	558.7	404.3	361.4
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)