

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: P318399

Luminaire Tested: **GAN-SA5B-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28568 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

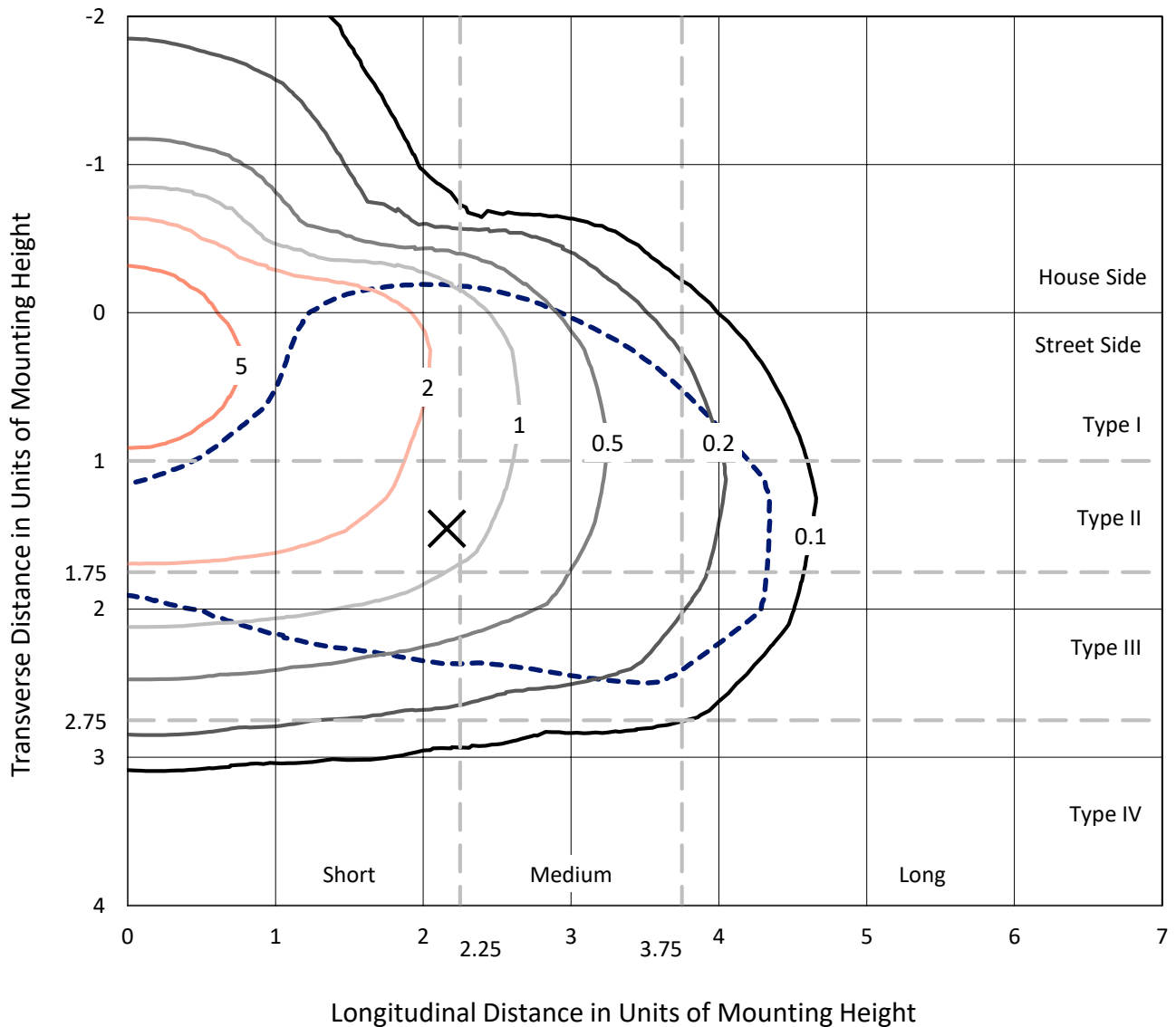
Input Watts (W): 210
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

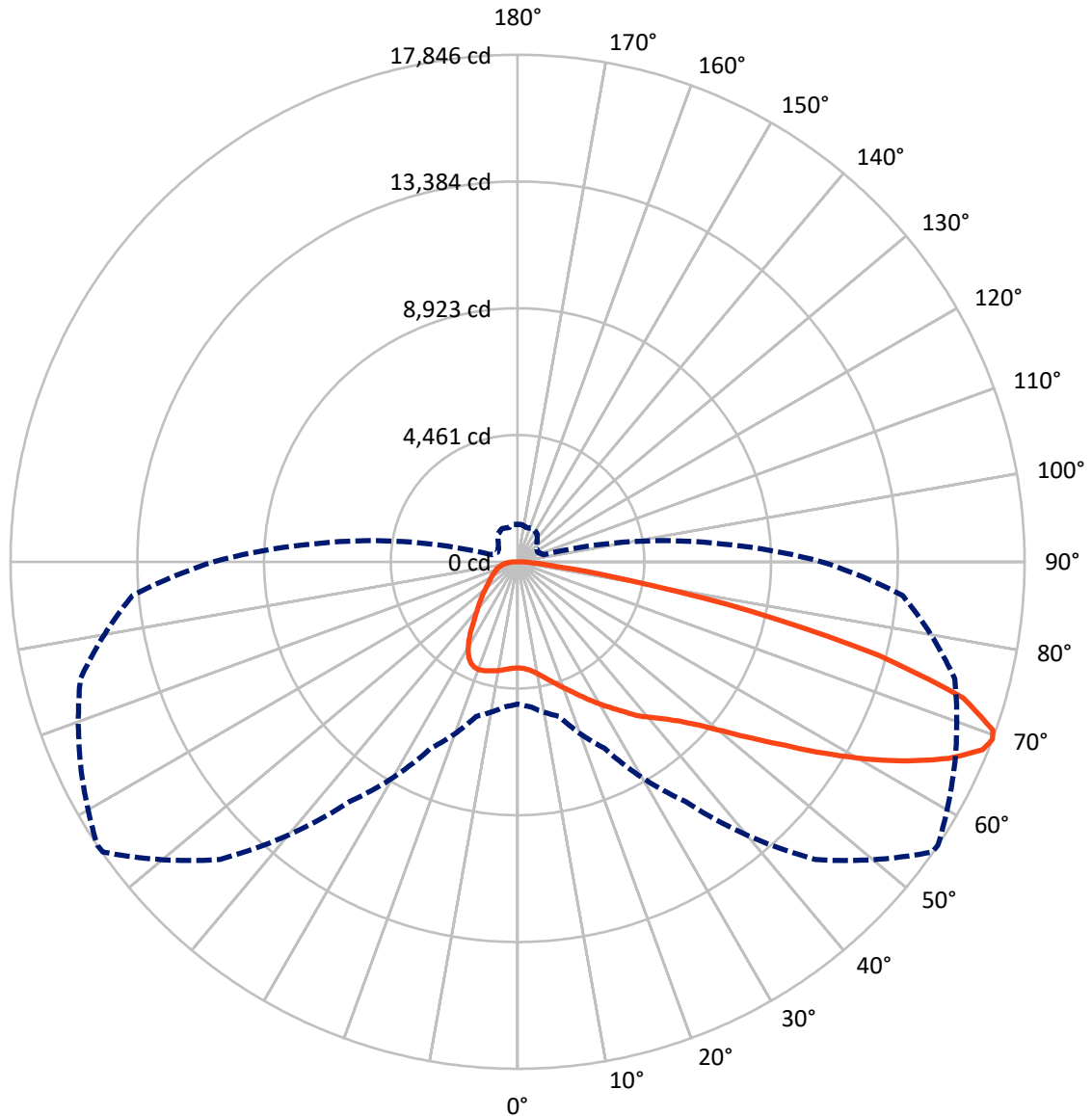
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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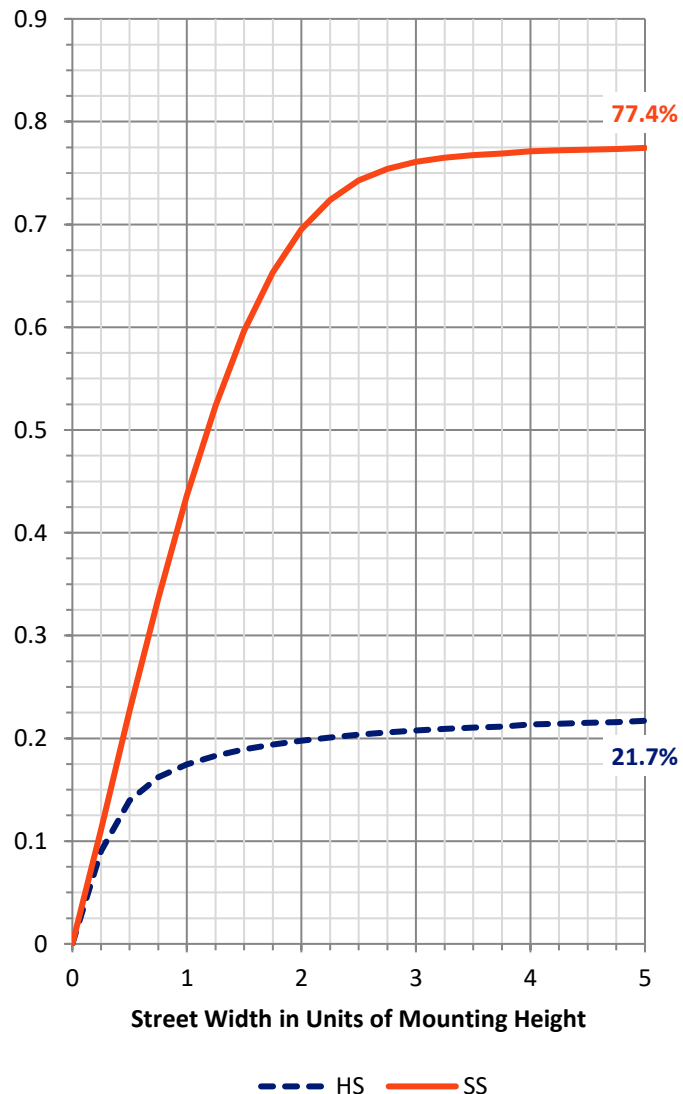
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6362.0	0.0	6362.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22206.0	0.0	22206.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	28568.0	0.0	28568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.3
10°-20°	1179.5	4.1
20°-30°	2059.0	7.2
30°-40°	2957.7	10.4
40°-50°	4093.3	14.3
50°-60°	5997.3	21.0
60°-70°	7311.9	25.6
70°-80°	4042.5	14.2
80°-90°	559.9	2.0
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°	28568.0	100.0
0°-180°	28568.0	100.0

Coefficient of Utilization

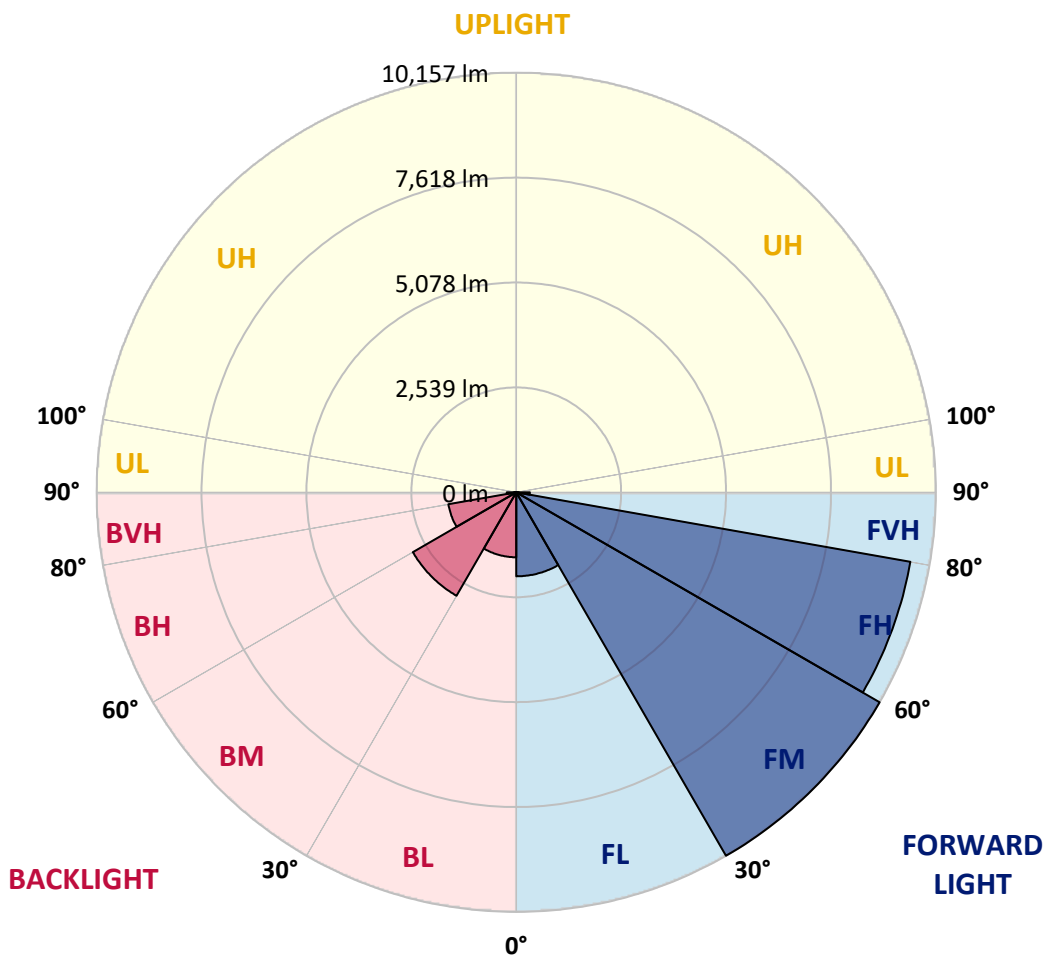


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.2	7.1			
FM (30°-60°)	10157.0	35.6			
FH (60°-80°)	9686.0	33.9			G4/12000
FVH (80°-90°)	329.8	1.2			G3/500
BL (0°-30°)	1572.2	5.5	B3/2500		
BM (30°-60°)	2891.4	10.1	B3/5000		
BH (60°-80°)	1668.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	230.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8
2.5°	3758.5	3762.4	3759.4	3767.3	3758.5	3764.4	3759.4	3759.4	3756.5	3747.6	3737.8
5°	3817.5	3825.4	3820.5	3828.3	3817.5	3819.5	3810.6	3810.6	3801.8	3783.1	3763.4
7.5°	3910.0	3918.9	3914.9	3922.8	3908.0	3908.0	3896.2	3895.3	3877.5	3847.0	3824.4
10°	4020.2	4032.0	4028.1	4039.9	4028.1	4032.0	4020.2	4020.2	3996.6	3953.3	3924.8
12.5°	4180.7	4195.4	4184.6	4183.6	4178.7	4186.6	4176.7	4174.7	4153.1	4094.0	4054.7
15°	4395.2	4410.9	4388.3	4386.3	4358.8	4355.8	4355.8	4352.9	4339.1	4268.2	4203.3
17.5°	4642.2	4647.1	4627.5	4596.0	4560.5	4537.9	4534.9	4542.8	4542.8	4460.2	4356.8
20°	4884.3	4893.2	4877.4	4842.0	4796.7	4763.3	4739.6	4755.4	4754.4	4656.0	4509.4
22.5°	5148.1	5168.7	5145.1	5099.8	5046.7	5009.3	4968.0	4981.7	4982.7	4861.7	4658.9
25°	5489.6	5470.9	5456.1	5392.1	5316.4	5278.0	5239.6	5253.4	5249.4	5083.1	4813.5
27.5°	5791.7	5795.6	5776.0	5708.0	5620.5	5535.8	5533.9	5542.7	5528.0	5313.4	4959.1
30°	6143.0	6145.0	6117.5	6056.4	5961.0	5851.7	5826.1	5840.9	5809.4	5531.9	5112.6
32.5°	6492.4	6502.3	6471.7	6397.9	6321.2	6188.3	6137.1	6147.0	6068.2	5755.3	5271.1
35°	6798.5	6812.3	6802.4	6753.2	6669.6	6555.4	6494.4	6488.5	6391.0	6028.9	5480.7
37.5°	7110.5	7123.3	7112.4	7071.1	7037.6	6916.6	6884.1	6884.1	6714.8	6308.4	5747.4
40°	7431.3	7451.0	7438.2	7381.1	7352.6	7297.4	7219.7	7201.0	7017.9	6644.0	6182.4
42.5°	7729.5	7755.1	7806.3	7772.8	7714.7	7722.6	7566.1	7556.3	7422.4	7140.0	6728.6
45°	8152.7	8190.1	8276.7	8251.1	8239.3	8196.0	8010.0	8001.1	7949.9	7807.2	7406.7
47.5°	8614.2	8665.4	8821.9	8826.8	8953.8	8872.1	8619.2	8588.6	8600.5	8606.4	8234.4
50°	9039.4	9095.5	9352.3	9473.4	9772.6	9790.3	9385.8	9358.2	9404.5	9540.3	9198.8
52.5°	9378.9	9449.8	9770.6	10144.6	10657.3	10803.0	10329.6	10308.9	10343.4	10577.6	10289.3
55°	9627.9	9704.7	10054.0	10735.1	11553.9	11810.7	11416.1	11396.4	11418.1	11716.3	11475.1
57.5°	9686.0	9704.7	10211.5	11132.7	12310.7	12927.7	12745.7	12706.3	12600.0	12859.8	12784.1
60°	9413.4	9488.2	10081.6	11272.4	12896.3	14029.0	14135.3	14086.1	13787.9	14000.5	13939.5
62.5°	8860.3	8994.1	9596.4	11059.8	13125.6	14928.5	15498.3	15439.3	14925.6	15063.3	14770.1
65°	7956.8	8013.9	8646.7	10326.6	12834.3	15504.2	16713.8	16684.2	16037.7	15822.1	14923.6
67.5°	6340.9	6448.1	6985.5	8794.3	11642.5	15436.3	17653.6	17650.7	16764.0	16103.6	14379.4
69°	5009.3	5120.5	5632.3	7244.3	10302.0	14815.3	17811.1	17845.5	16968.7	15932.3	13601.9
70°	3993.7	4122.6	4473.9	6101.7	9112.2	13996.5	17680.2	17742.2	16929.3	15649.9	12884.4
72.5°	1699.6	1803.9	2053.9	3145.3	5553.5	10451.6	16165.6	16399.8	16017.0	14323.3	10648.5
75°	742.0	774.5	887.7	1282.3	2465.3	5688.4	12664.0	13097.0	13695.4	12107.0	7932.2
77.5°	543.2	557.0	619.0	752.9	1106.2	2148.4	8143.8	8395.8	9876.9	8810.1	4865.6
80°	420.2	430.1	478.3	553.1	722.4	869.0	3714.2	3930.7	5553.5	4525.1	2026.4
82.5°	334.6	341.5	375.0	407.4	499.0	526.5	1233.1	1368.0	2050.0	1249.9	536.4
85°	311.0	318.9	330.7	297.2	319.8	309.0	533.4	558.0	619.0	491.1	224.4
87.5°	140.7	166.3	327.7	231.3	170.3	135.8	218.5	228.3	256.9	257.8	99.4
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°	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8
2.5°	3743.7	3740.7	3745.7	3733.9	3748.6	3747.6	3742.7	3744.7	3754.5	3753.5	3754.5
5°	3766.3	3764.4	3770.3	3761.4	3779.1	3785.0	3786.0	3794.9	3805.7	3808.6	3808.6
7.5°	3823.4	3823.4	3826.4	3814.6	3826.4	3825.4	3820.5	3829.3	3840.1	3841.1	3840.1
10°	3921.8	3922.8	3917.9	3887.4	3877.5	3851.0	3826.4	3827.3	3841.1	3851.9	3854.9
12.5°	4045.8	4041.9	4020.2	3964.1	3922.8	3868.7	3843.1	3842.1	3855.9	3864.7	3867.7
15°	4187.5	4176.7	4120.6	4029.1	3956.3	3903.1	3861.8	3851.9	3844.1	3834.2	3835.2
17.5°	4321.4	4296.8	4203.3	4076.3	3999.6	3928.7	3849.0	3785.0	3740.7	3715.2	3707.3
20°	4457.2	4409.0	4274.1	4120.6	4023.2	3894.3	3740.7	3610.8	3530.1	3492.7	3485.8
22.5°	4581.2	4503.5	4340.1	4166.9	4004.5	3778.1	3537.0	3348.1	3235.9	3185.7	3189.6
25°	4702.3	4594.0	4409.0	4199.4	3910.0	3573.4	3253.6	3021.3	2891.4	2835.3	2833.4
27.5°	4808.5	4685.5	4483.8	4172.8	3733.9	3282.1	2918.0	2691.6	2583.4	2535.2	2527.3
30°	4930.6	4800.7	4583.2	4071.4	3476.0	2945.6	2590.3	2430.8	2354.1	2305.9	2297.0
32.5°	5079.2	4957.1	4664.9	3887.4	3146.3	2594.2	2334.4	2223.2	2153.3	2099.2	2089.3
35°	5295.7	5163.8	4685.5	3623.6	2784.2	2316.7	2146.4	2032.3	1937.8	1867.9	1861.0
37.5°	5567.3	5422.6	4638.3	3282.1	2432.8	2136.6	1989.9	1849.2	1726.2	1627.8	1612.0
40°	5959.0	5740.5	4507.4	2888.5	2174.0	1997.8	1837.4	1677.0	1524.4	1409.3	1386.7
42.5°	6429.4	6113.5	4306.6	2496.8	1984.0	1857.1	1685.8	1487.0	1341.4	1259.7	1247.9
45°	7027.8	6501.3	4028.1	2154.3	1797.1	1716.4	1522.5	1339.4	1248.9	1188.8	1179.0
47.5°	7710.8	6936.3	3735.8	1875.8	1638.6	1584.5	1391.6	1273.5	1201.6	1154.4	1145.5
50°	8550.3	7427.4	3425.8	1647.5	1479.2	1426.0	1329.6	1237.1	1180.0	1143.6	1134.7
52.5°	9497.0	7981.4	3202.4	1467.4	1347.3	1308.9	1297.1	1217.4	1171.1	1143.6	1134.7
55°	10516.6	8545.3	2961.3	1315.8	1233.1	1244.0	1275.5	1219.4	1187.9	1154.4	1141.6
57.5°	11537.1	9128.0	2692.6	1187.9	1142.6	1195.7	1260.7	1223.3	1196.7	1164.2	1152.4
60°	12344.1	9497.0	2276.3	1080.6	1070.8	1142.6	1225.3	1193.8	1159.3	1160.3	1158.3
62.5°	12721.1	9477.3	1816.7	985.1	998.9	1070.8	1168.2	1147.5	1119.0	1157.4	1160.3
65°	12509.5	9004.9	1414.2	898.5	922.1	996.0	1109.1	1124.9	1134.7	1208.5	1218.4
67.5°	11621.8	8085.7	1095.4	822.7	852.3	944.8	1115.0	1225.3	1238.1	1315.8	1314.8
69°	10703.6	7223.6	951.7	783.4	817.8	957.6	1191.8	1289.2	1241.0	1323.7	1311.9
70°	9934.0	6541.6	874.9	756.8	802.1	980.2	1243.0	1288.2	1226.2	1297.1	1277.4
72.5°	7650.8	4706.2	742.0	707.6	748.9	937.9	1257.7	1259.7	1191.8	1205.6	1172.1
75°	5247.5	2974.1	647.6	640.7	668.2	845.4	1210.5	1203.6	1102.2	1082.6	1055.0
77.5°	2893.4	1510.7	550.1	576.7	595.4	748.9	1100.3	1090.4	1006.8	965.4	955.6
80°	1116.0	661.3	464.5	512.7	524.6	648.6	964.5	955.6	885.7	832.6	817.8
82.5°	421.2	346.4	383.8	443.9	439.9	535.4	816.8	811.9	744.0	666.3	642.6
85°	194.9	207.7	304.1	366.1	337.6	396.6	653.5	662.3	579.7	487.2	487.2
87.5°	82.7	116.1	215.5	276.5	227.3	267.7	479.3	457.6	420.2	291.3	273.6
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)