

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: P318378

Luminaire Tested: **GAN-SA4D-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318378
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-SA4D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28509 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

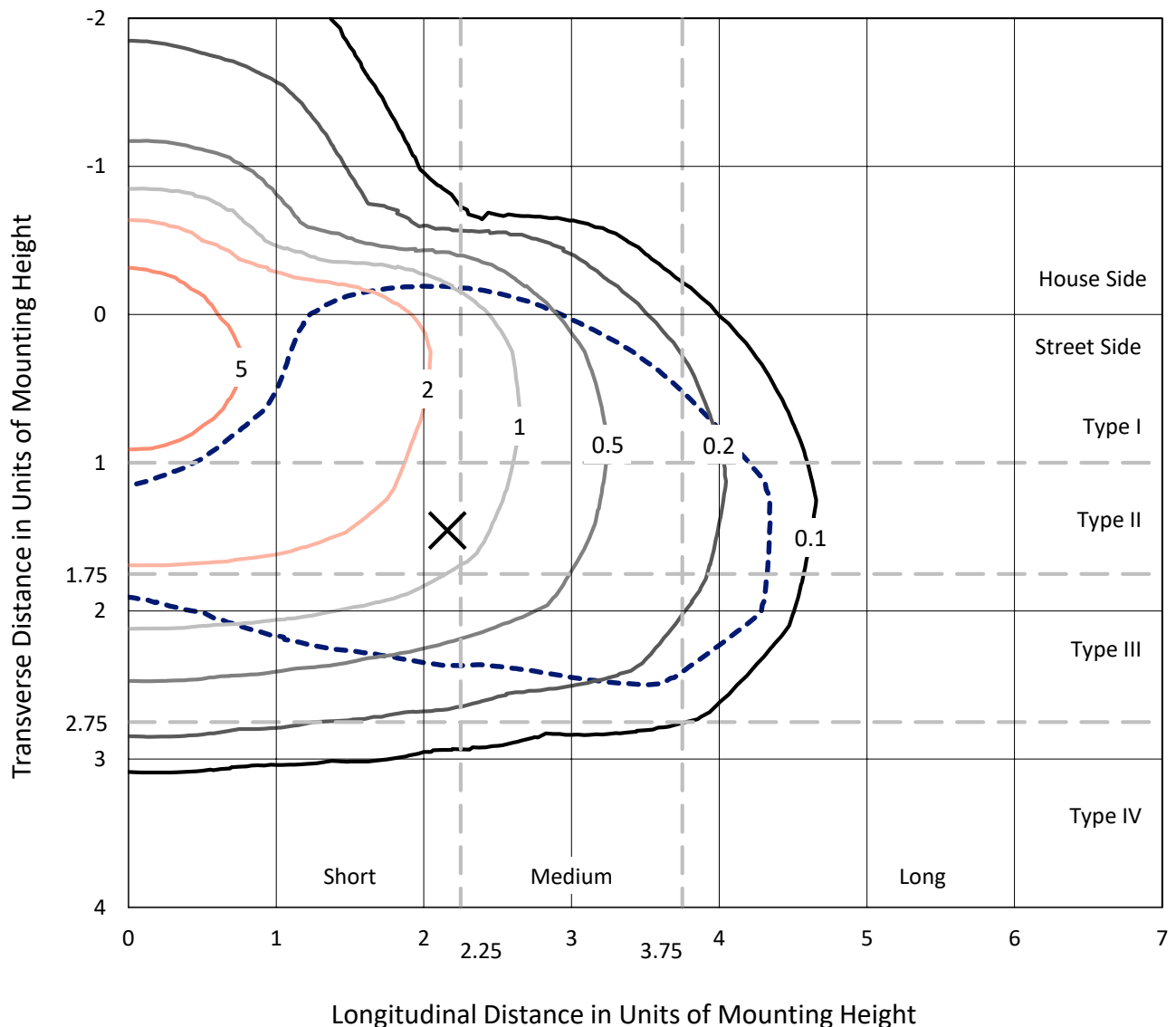
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

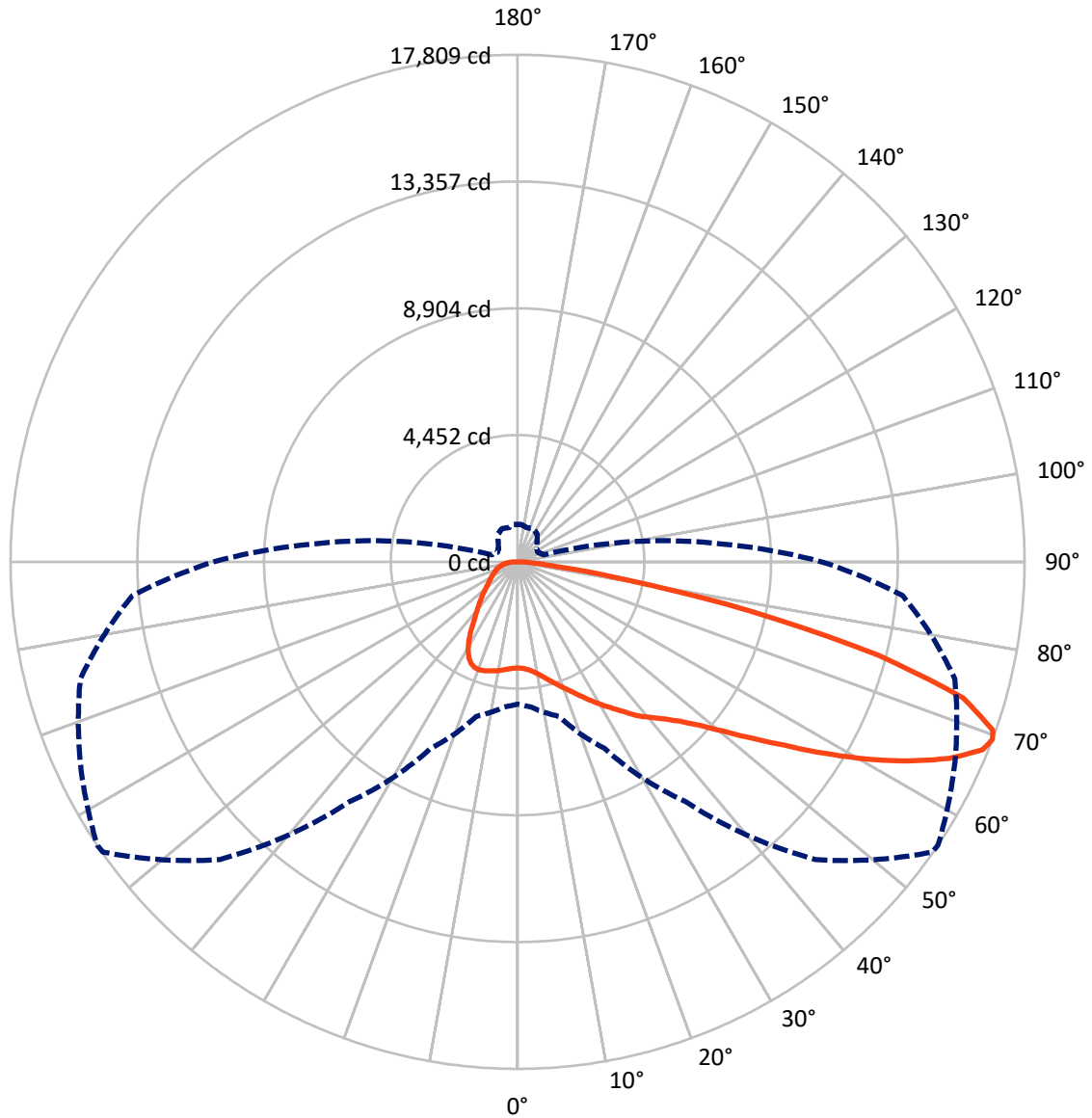
✕ Max cd
 - - - 1/2 Max cd



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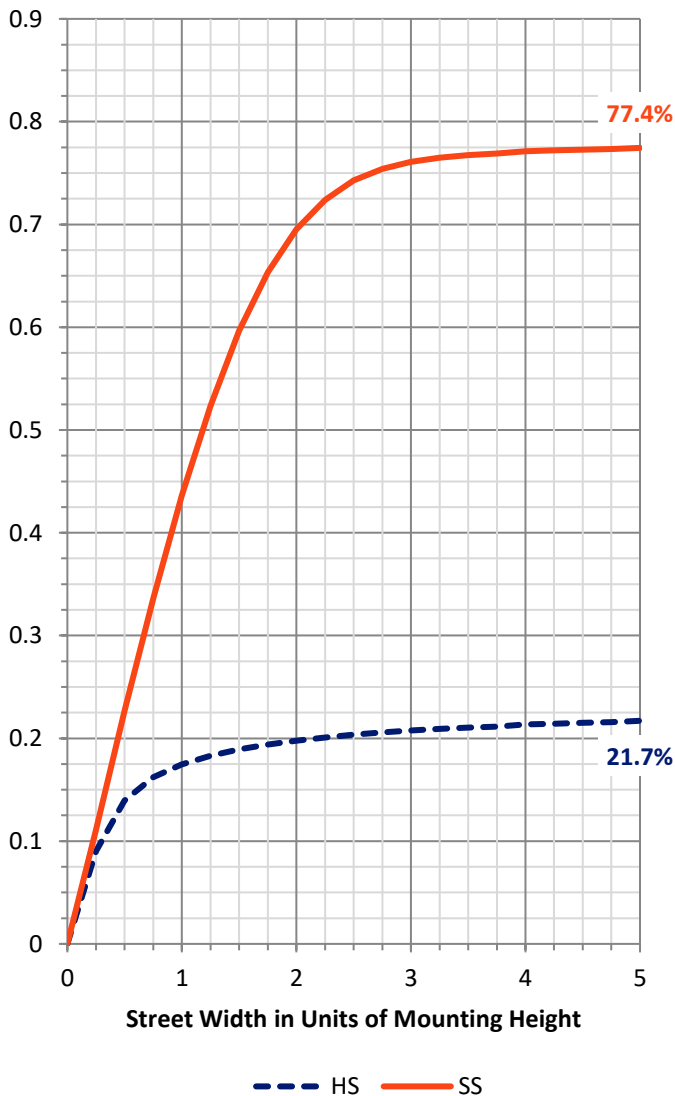
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6348.9	0.0	6348.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22160.1	0.0	22160.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	28509.0	0.0	28509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.3
10°-20°	1177.1	4.1
20°-30°	2054.8	7.2
30°-40°	2951.6	10.4
40°-50°	4084.9	14.3
50°-60°	5984.9	21.0
60°-70°	7296.7	25.6
70°-80°	4034.1	14.2
80°-90°	558.7	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°	28509.0	100.0
0°-180°	28509.0	100.0

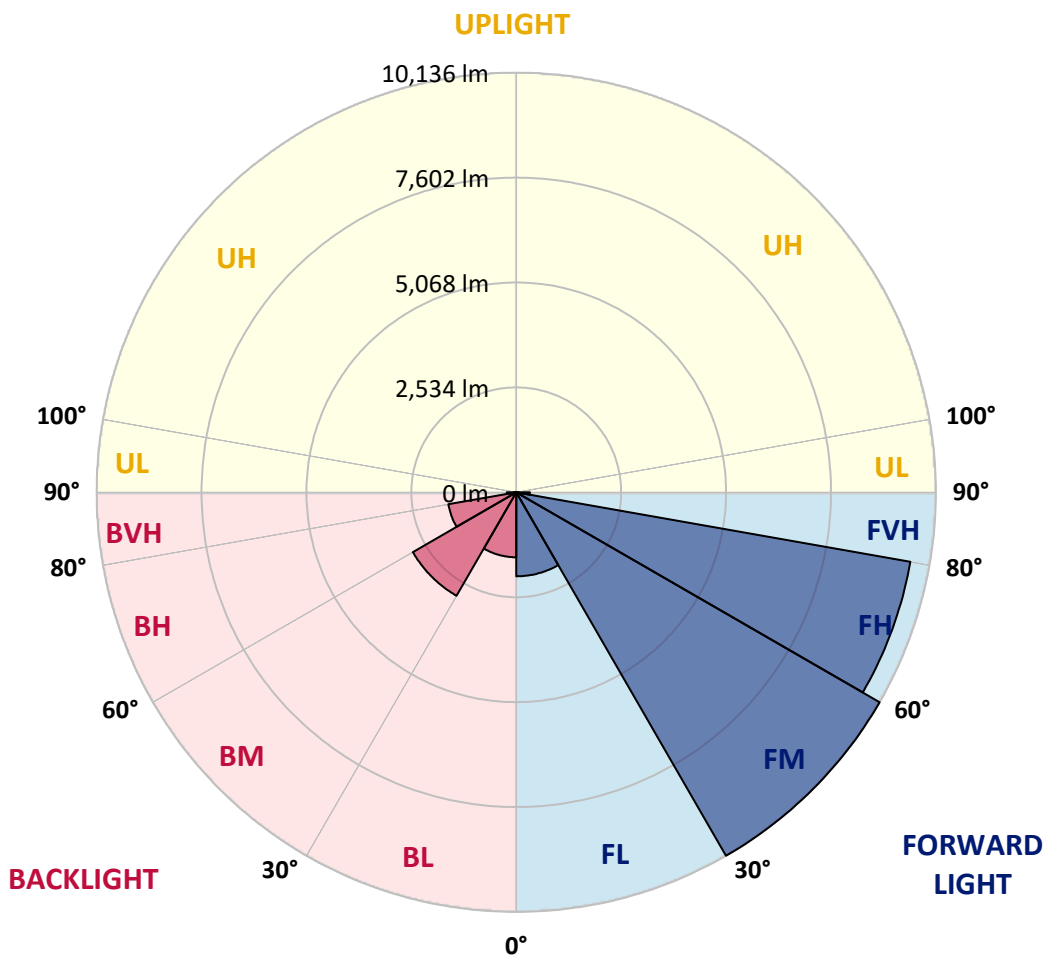


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.0	7.1			
FM (30°-60°)	10136.0	35.6			
FH (60°-80°)	9666.0	33.9			G4/12000
FVH (80°-90°)	329.1	1.2			G3/500
BL (0°-30°)	1569.0	5.5	B3/2500		
BM (30°-60°)	2885.4	10.1	B3/5000		
BH (60°-80°)	1664.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	229.6	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°	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1
2.5°	3750.7	3754.6	3751.7	3759.5	3750.7	3756.6	3751.7	3751.7	3748.7	3739.9	3730.1
5°	3809.6	3817.5	3812.6	3820.4	3809.6	3811.6	3802.7	3802.7	3793.9	3775.2	3755.6
7.5°	3901.9	3910.8	3906.8	3914.7	3900.0	3900.0	3888.2	3887.2	3869.5	3839.1	3816.5
10°	4011.9	4023.7	4019.8	4031.6	4019.8	4023.7	4011.9	4011.9	3988.4	3945.2	3916.7
12.5°	4172.0	4186.8	4175.9	4175.0	4170.1	4177.9	4168.1	4166.1	4144.5	4085.6	4046.3
15°	4386.1	4401.8	4379.2	4377.3	4349.8	4346.8	4346.8	4343.9	4330.1	4259.4	4194.6
17.5°	4632.6	4637.5	4617.9	4586.5	4551.1	4528.5	4525.6	4533.4	4533.4	4450.9	4347.8
20°	4874.2	4883.1	4867.4	4832.0	4786.8	4753.4	4729.9	4745.6	4744.6	4646.4	4500.0
22.5°	5137.4	5158.1	5134.5	5089.3	5036.3	4999.0	4957.7	4971.5	4972.4	4851.6	4649.3
25°	5478.2	5459.6	5444.8	5381.0	5305.4	5267.1	5228.8	5242.5	5238.6	5072.6	4803.5
27.5°	5779.7	5783.7	5764.0	5696.3	5608.9	5524.4	5522.4	5531.3	5516.5	5302.4	4948.9
30°	6130.4	6132.3	6104.8	6043.9	5948.7	5839.6	5814.1	5828.8	5797.4	5520.5	5102.1
32.5°	6479.0	6488.8	6458.4	6384.7	6308.1	6175.5	6124.5	6134.3	6055.7	5743.4	5260.2
35°	6784.4	6798.2	6788.4	6739.3	6655.8	6541.9	6481.0	6475.1	6377.8	6016.4	5469.4
37.5°	7095.8	7108.5	7097.7	7056.5	7023.1	6902.3	6869.9	6869.9	6701.0	6295.4	5735.5
40°	7415.9	7435.6	7422.8	7365.9	7337.4	7282.4	7204.8	7186.1	7003.5	6630.3	6169.6
42.5°	7713.5	7739.1	7790.1	7756.7	7698.8	7706.6	7550.5	7540.7	7407.1	7125.2	6714.7
45°	8135.8	8173.2	8259.6	8234.0	8222.3	8179.0	7993.4	7984.6	7933.5	7791.1	7391.4
47.5°	8596.4	8647.5	8803.7	8808.6	8935.3	8853.8	8601.4	8570.9	8582.7	8588.6	8217.3
50°	9020.7	9076.7	9333.0	9453.8	9752.4	9770.1	9366.4	9338.9	9385.1	9520.6	9179.8
52.5°	9359.5	9430.3	9750.4	10123.6	10635.3	10780.7	10308.3	10287.6	10322.0	10555.8	10268.0
55°	9608.0	9684.6	10033.3	10712.9	11530.0	11786.4	11392.5	11372.9	11394.5	11692.1	11451.4
57.5°	9666.0	9684.6	10190.4	11109.7	12285.3	12901.0	12719.4	12680.1	12574.0	12833.3	12757.7
60°	9393.9	9468.6	10060.8	11249.1	12869.6	14000.0	14106.1	14057.0	13759.4	13971.6	13910.7
62.5°	8842.0	8975.5	9576.6	11037.0	13098.5	14897.7	15466.3	15407.4	14894.7	15032.2	14739.6
65°	7940.4	7997.4	8628.9	10305.3	12807.7	15472.2	16679.2	16649.8	16004.5	15789.4	14892.8
67.5°	6327.8	6434.8	6971.0	8776.2	11618.4	15404.5	17617.2	17614.2	16729.3	16070.3	14349.7
69°	4999.0	5109.9	5620.6	7229.3	10280.8	14784.7	17774.3	17808.7	16933.6	15899.4	13573.8
70°	3985.4	4114.1	4464.7	6089.1	9093.4	13967.6	17643.7	17705.6	16894.3	15617.6	12857.8
72.5°	1696.1	1800.2	2049.7	3138.8	5542.1	10430.1	16132.2	16365.9	15983.9	14293.7	10626.5
75°	740.5	772.9	885.9	1279.7	2460.2	5676.6	12637.8	13070.0	13667.1	12082.0	7915.8
77.5°	542.1	555.9	617.7	751.3	1103.9	2144.0	8127.0	8378.4	9856.5	8791.9	4855.6
80°	419.4	429.2	477.3	551.9	720.9	867.2	3706.5	3922.6	5542.1	4515.8	2022.2
82.5°	333.9	340.8	374.2	406.6	497.9	525.4	1230.6	1365.1	2045.7	1247.3	535.3
85°	310.3	318.2	330.0	296.6	319.2	308.4	532.3	556.9	617.7	490.1	223.9
87.5°	140.4	166.0	327.0	230.8	169.9	135.5	218.0	227.9	256.3	257.3	99.2
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°	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1	3727.1
2.5°	3736.0	3733.0	3737.9	3726.1	3740.9	3739.9	3735.0	3736.9	3746.8	3745.8	3746.8
5°	3758.6	3756.6	3762.5	3753.6	3771.3	3777.2	3778.2	3787.0	3797.8	3800.8	3800.8
7.5°	3815.5	3815.5	3818.5	3806.7	3818.5	3817.5	3812.6	3821.4	3832.2	3833.2	3832.2
10°	3913.7	3914.7	3909.8	3879.4	3869.5	3843.0	3818.5	3819.4	3833.2	3844.0	3846.9
12.5°	4037.5	4033.5	4011.9	3956.0	3914.7	3860.7	3835.2	3834.2	3847.9	3856.8	3859.7
15°	4178.9	4168.1	4112.1	4020.8	3948.1	3895.1	3853.8	3844.0	3836.1	3826.3	3827.3
17.5°	4312.5	4287.9	4194.6	4067.9	3991.3	3920.6	3841.0	3777.2	3733.0	3707.5	3699.6
20°	4448.0	4399.9	4265.3	4112.1	4014.9	3886.2	3733.0	3603.4	3522.8	3485.5	3478.6
22.5°	4571.7	4494.2	4331.1	4158.3	3996.2	3770.3	3529.7	3341.2	3229.2	3179.1	3183.0
25°	4692.5	4584.5	4399.9	4190.7	3901.9	3566.1	3246.9	3015.1	2885.5	2829.5	2827.5
27.5°	4798.6	4675.8	4474.5	4164.2	3726.1	3275.4	2912.0	2686.1	2578.0	2529.9	2522.1
30°	4920.4	4790.8	4573.7	4063.0	3468.8	2939.5	2584.9	2425.8	2349.2	2301.1	2292.3
32.5°	5068.7	4946.9	4655.2	3879.4	3139.8	2588.9	2329.6	2218.6	2148.9	2094.8	2085.0
35°	5284.8	5153.2	4675.8	3616.1	2778.4	2311.9	2142.0	2028.1	1933.8	1864.1	1857.2
37.5°	5555.8	5411.4	4628.7	3275.4	2427.8	2132.2	1985.8	1845.4	1722.6	1624.4	1608.7
40°	5946.7	5728.7	4498.1	2882.5	2169.5	1993.7	1833.6	1673.5	1521.3	1406.4	1383.8
42.5°	6416.2	6100.9	4297.7	2491.6	1979.9	1853.2	1682.4	1484.0	1338.6	1257.1	1245.3
45°	7013.3	6487.8	4019.8	2149.8	1793.3	1712.8	1519.3	1336.7	1246.3	1186.4	1176.6
47.5°	7694.9	6921.9	3728.1	1871.9	1635.2	1581.2	1388.7	1270.9	1199.2	1152.0	1143.2
50°	8532.6	7412.0	3418.7	1644.1	1476.1	1423.1	1326.8	1234.5	1177.6	1141.2	1132.4
52.5°	9477.4	7964.9	3195.8	1464.3	1344.5	1306.2	1294.4	1214.9	1168.7	1141.2	1132.4
55°	10494.9	8527.7	2955.2	1313.1	1230.6	1241.4	1272.8	1216.8	1185.4	1152.0	1139.3
57.5°	11513.3	9109.1	2687.1	1185.4	1140.2	1193.3	1258.1	1220.8	1194.3	1161.8	1150.1
60°	12318.7	9477.4	2271.6	1078.4	1068.5	1140.2	1222.7	1191.3	1156.9	1157.9	1155.9
62.5°	12694.8	9457.8	1813.0	983.1	996.8	1068.5	1165.8	1145.1	1116.7	1155.0	1157.9
65°	12483.7	8986.3	1411.3	896.7	920.2	993.9	1106.8	1122.6	1132.4	1206.0	1215.9
67.5°	11597.8	8069.0	1093.1	821.0	850.5	942.8	1112.7	1222.7	1235.5	1313.1	1312.1
69°	10681.5	7208.7	949.7	781.8	816.1	955.6	1189.3	1286.6	1238.4	1320.9	1309.2
70°	9913.5	6528.1	873.1	755.2	800.4	978.2	1240.4	1285.6	1223.7	1294.4	1274.8
72.5°	7635.0	4696.5	740.5	706.1	747.4	936.0	1255.1	1257.1	1189.3	1203.1	1169.7
75°	5236.6	2967.9	646.2	639.4	666.9	843.6	1208.0	1201.1	1100.0	1080.3	1052.8
77.5°	2887.4	1507.5	549.0	575.5	594.2	747.4	1098.0	1088.2	1004.7	963.5	953.6
80°	1113.7	660.0	463.6	511.7	523.5	647.2	962.5	953.6	883.9	830.9	816.1
82.5°	420.3	345.7	383.0	442.9	439.0	534.3	815.2	810.2	742.5	664.9	641.3
85°	194.5	207.2	303.5	365.3	336.9	395.8	652.1	661.0	578.5	486.1	486.1
87.5°	82.5	115.9	215.1	276.0	226.9	267.1	478.3	456.7	419.4	290.7	273.0
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)