

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: P318418

Luminaire Tested: **GAN-SA4D-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318418
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-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31307 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

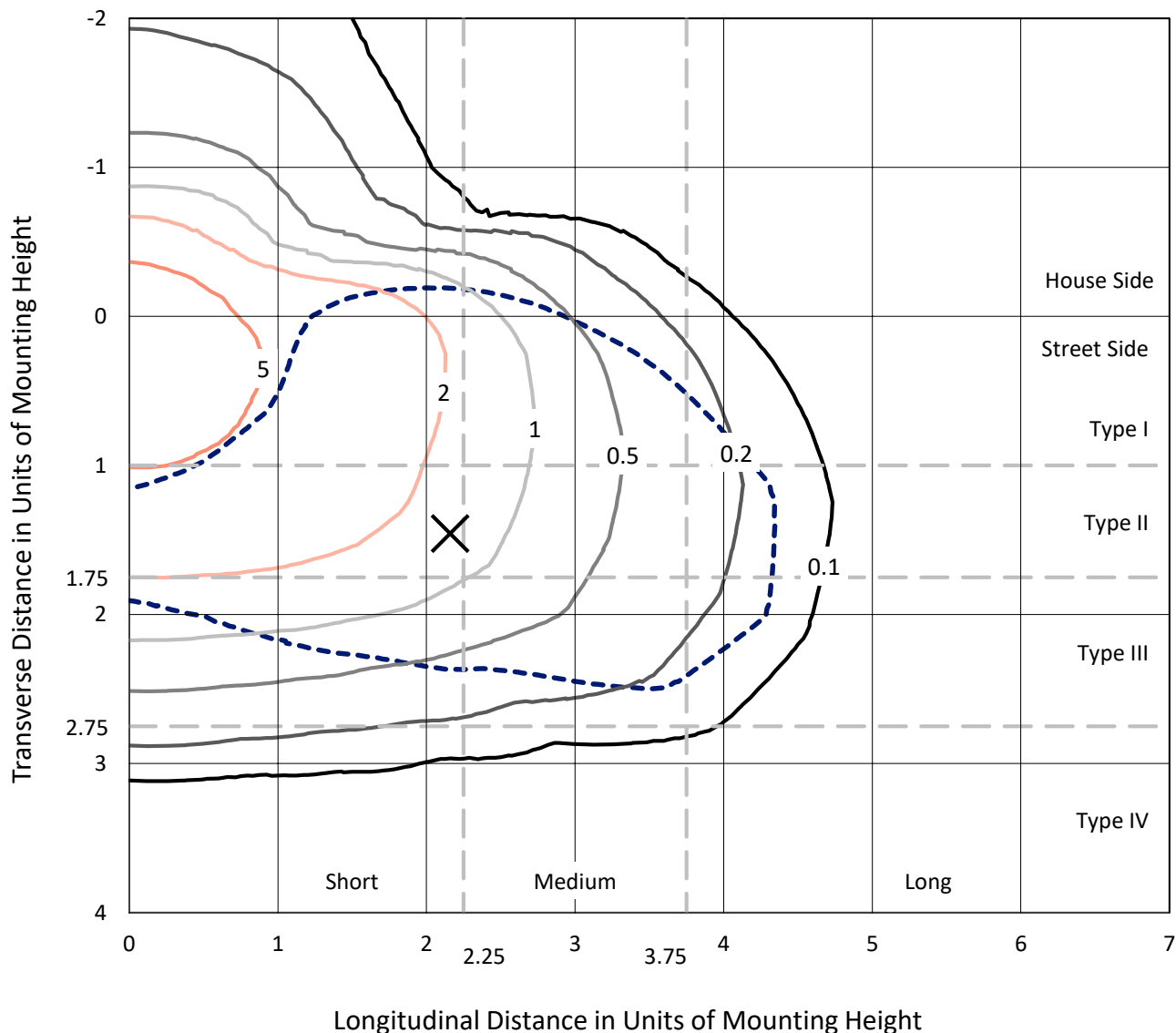
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

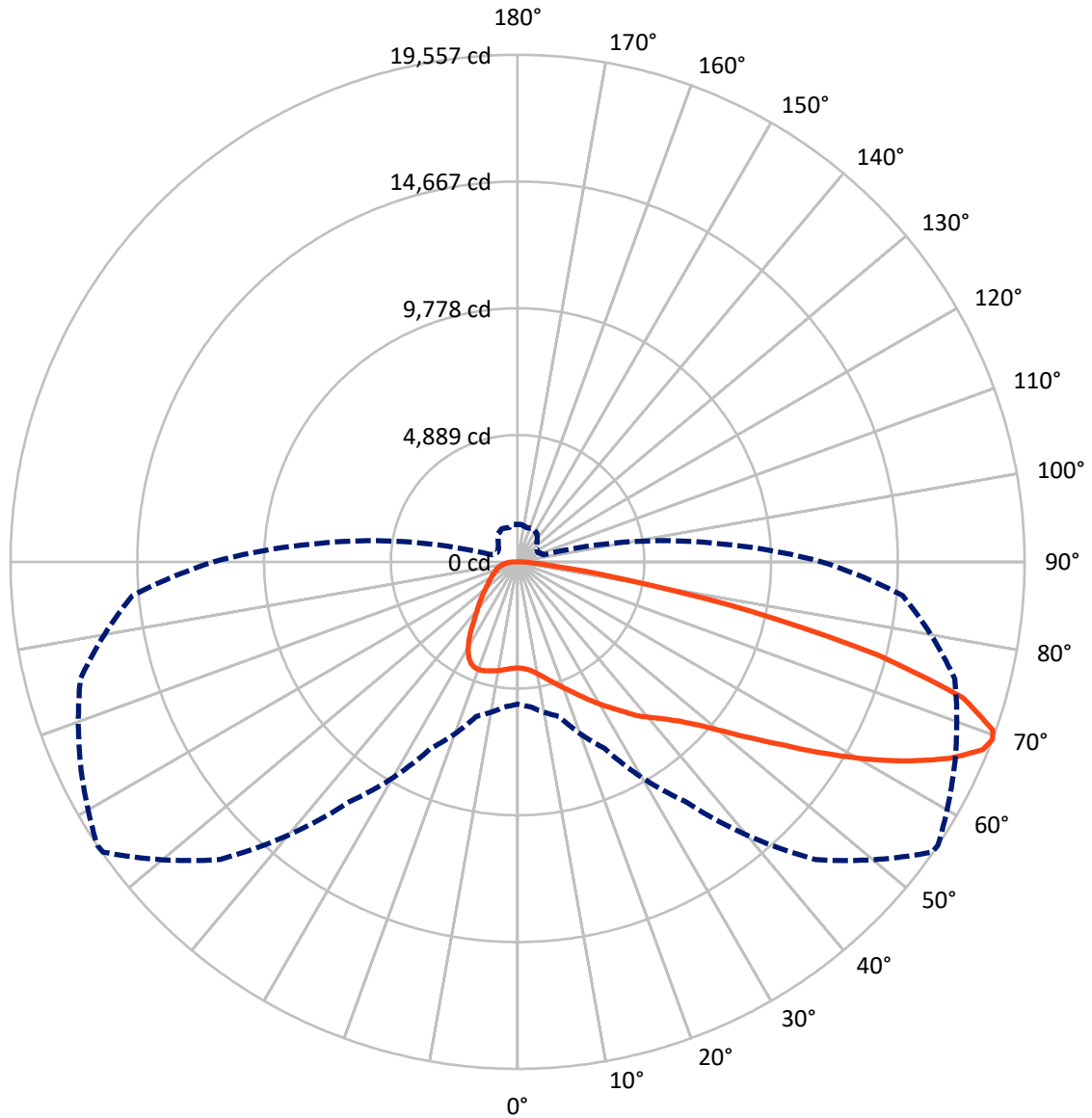
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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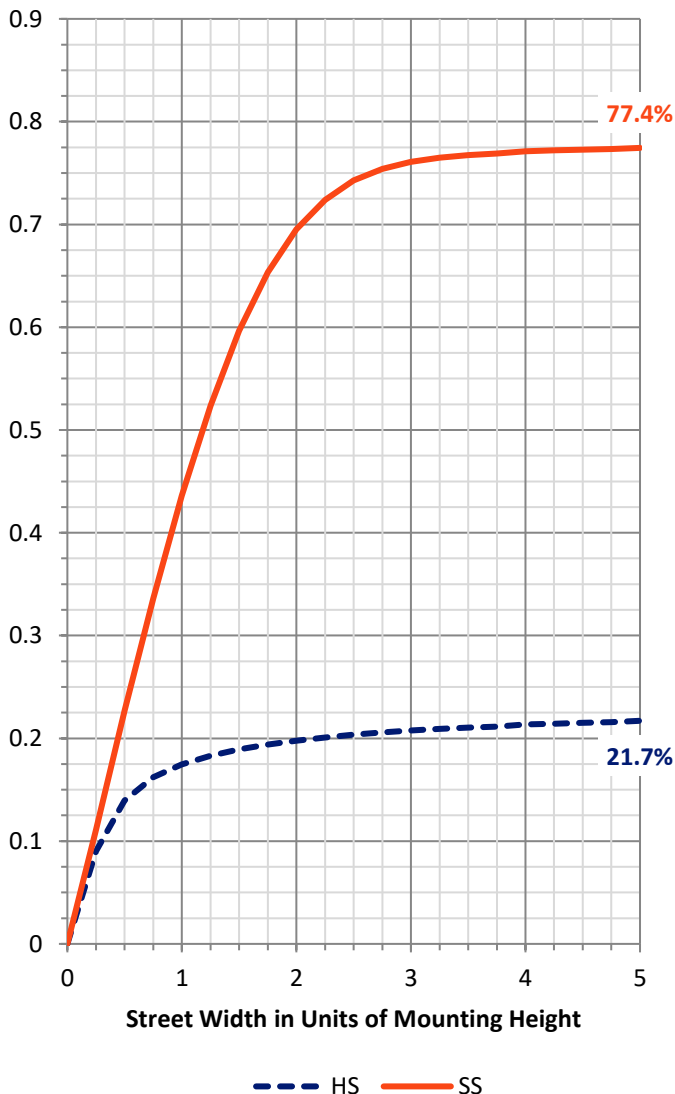
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6972.0	0.0	6972.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24335.0	0.0	24335.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	31307.0	0.0	31307.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	1.3
10°-20°	1292.6	4.1
20°-30°	2256.4	7.2
30°-40°	3241.3	10.4
40°-50°	4485.8	14.3
50°-60°	6572.3	21.0
60°-70°	8012.9	25.6
70°-80°	4430.0	14.2
80°-90°	613.6	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°	31307.0	100.0
0°-180°	31307.0	100.0

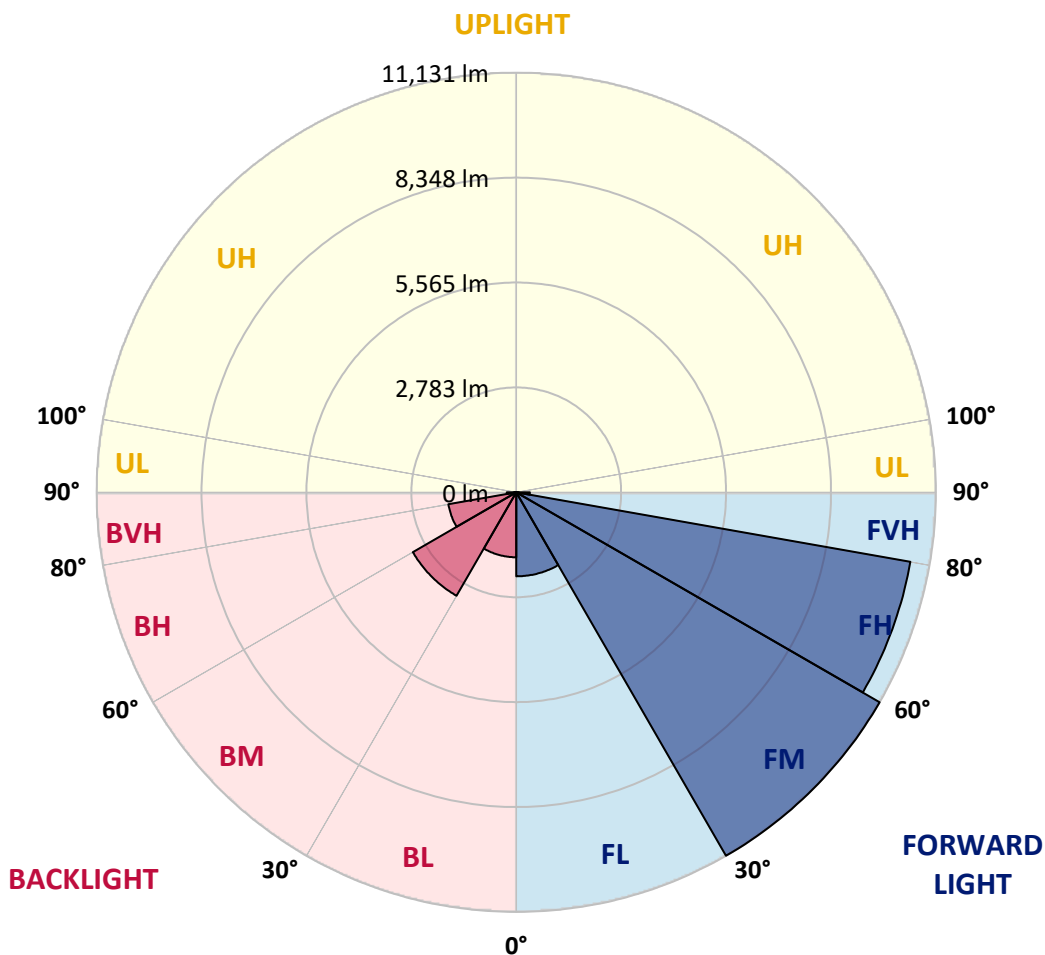


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2228.1	7.1			
FM (30°-60°)	11130.8	35.6			
FH (60°-80°)	10614.6	33.9			G4/12000
FVH (80°-90°)	361.4	1.2			G3/500
BL (0°-30°)	1722.9	5.5	B3/2500		
BM (30°-60°)	3168.6	10.1	B3/5000		
BH (60°-80°)	1828.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	252.2	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°	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9
2.5°	4118.8	4123.1	4119.9	4128.5	4118.8	4125.3	4119.9	4119.9	4116.6	4106.9	4096.2
5°	4183.5	4192.1	4186.7	4195.4	4183.5	4185.7	4176.0	4176.0	4166.3	4145.8	4124.2
7.5°	4284.9	4294.6	4290.3	4298.9	4282.7	4282.7	4269.8	4268.7	4249.3	4215.9	4191.1
10°	4405.7	4418.6	4414.3	4427.3	4414.3	4418.6	4405.7	4405.7	4379.8	4332.3	4301.1
12.5°	4581.5	4597.7	4585.8	4584.7	4579.3	4588.0	4577.2	4575.0	4551.3	4486.6	4443.4
15°	4816.6	4833.9	4809.0	4806.9	4776.7	4773.5	4773.5	4770.2	4755.1	4677.5	4606.3
17.5°	5087.3	5092.7	5071.1	5036.6	4997.8	4973.0	4969.7	4978.4	4978.4	4887.8	4774.5
20°	5352.6	5362.3	5345.1	5306.2	5256.6	5220.0	5194.1	5211.3	5210.2	5102.4	4941.7
22.5°	5641.6	5664.3	5638.4	5588.8	5530.6	5489.6	5444.3	5459.4	5460.5	5327.8	5105.6
25°	6015.9	5995.4	5979.2	5909.1	5826.1	5784.0	5742.0	5757.0	5752.7	5570.5	5275.0
27.5°	6347.0	6351.3	6329.7	6255.3	6159.3	6066.6	6064.4	6074.1	6058.0	5822.8	5434.6
30°	6732.0	6734.2	6704.0	6637.1	6532.5	6412.8	6384.7	6400.9	6366.4	6062.3	5602.8
32.5°	7114.9	7125.7	7092.2	7011.3	6927.2	6781.6	6725.5	6736.3	6650.0	6307.1	5776.5
35°	7450.3	7465.4	7454.6	7400.7	7309.0	7183.9	7117.0	7110.6	7003.8	6606.9	6006.2
37.5°	7792.2	7806.2	7794.3	7749.0	7712.4	7579.7	7544.1	7544.1	7358.6	6913.2	6298.5
40°	8143.8	8165.3	8151.3	8088.8	8057.5	7997.1	7911.9	7891.4	7690.8	7281.0	6775.2
42.5°	8470.6	8498.6	8554.7	8518.0	8454.4	8463.0	8291.5	8280.7	8134.1	7824.5	7373.7
45°	8934.3	8975.3	9070.2	9042.2	9029.2	8981.8	8777.9	8768.2	8712.1	8555.8	8116.8
47.5°	9440.1	9496.2	9667.7	9673.1	9812.2	9722.7	9445.5	9412.1	9425.0	9431.5	9023.8
50°	9906.1	9967.5	10249.0	10381.7	10709.5	10728.9	10285.7	10255.5	10306.2	10455.0	10080.8
52.5°	10278.1	10355.8	10707.4	11117.2	11679.1	11838.7	11320.0	11297.3	11335.1	11591.8	11275.7
55°	10551.0	10635.1	11018.0	11764.3	12661.6	12943.1	12510.6	12489.1	12512.8	12839.6	12575.3
57.5°	10614.6	10635.1	11190.5	12200.0	13491.0	14167.2	13967.7	13924.6	13808.1	14092.8	14009.8
60°	10315.9	10397.8	11048.2	12353.2	14132.7	15374.1	15490.5	15436.6	15109.8	15342.8	15275.9
62.5°	9709.8	9856.4	10516.5	12120.2	14384.0	16359.8	16984.3	16919.6	16356.6	16507.6	16186.2
65°	8719.7	8782.3	9475.7	11316.7	14064.8	16990.7	18316.2	18283.9	17575.3	17339.1	16354.4
67.5°	6948.8	7066.4	7655.2	9637.5	12758.7	16916.3	19346.2	19343.0	18371.2	17647.5	15758.0
69°	5489.6	5611.5	6172.3	7938.9	11289.8	16235.8	19518.7	19556.5	18595.5	17459.9	14906.0
70°	4376.6	4517.8	4902.9	6686.7	9985.9	15338.5	19375.3	19443.3	18552.4	17150.4	14119.8
72.5°	1862.6	1976.9	2250.8	3446.9	6086.0	11453.7	17715.5	17972.2	17552.6	15696.5	11669.4
75°	813.2	848.8	972.8	1405.3	2701.7	6233.7	13878.2	14352.7	15008.4	13267.7	8692.7
77.5°	595.3	610.4	678.4	825.1	1212.2	2354.4	8924.6	9200.7	10823.9	9654.8	5332.1
80°	460.5	471.3	524.2	606.1	791.6	952.3	4070.3	4307.5	6086.0	4959.0	2220.6
82.5°	366.7	374.2	410.9	446.5	546.8	577.0	1351.4	1499.1	2246.5	1369.7	587.8
85°	340.8	349.4	362.4	325.7	350.5	338.6	584.5	611.5	678.4	538.2	245.9
87.5°	154.2	182.3	359.1	253.4	186.6	148.8	239.4	250.2	281.5	282.6	108.9
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°	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9	4092.9
2.5°	4102.6	4099.4	4104.8	4091.8	4108.0	4106.9	4101.5	4103.7	4114.5	4113.4	4114.5
5°	4127.4	4125.3	4131.7	4122.0	4141.5	4147.9	4149.0	4158.7	4170.6	4173.8	4173.8
7.5°	4190.0	4190.0	4193.2	4180.3	4193.2	4192.1	4186.7	4196.5	4208.3	4209.4	4208.3
10°	4297.8	4298.9	4293.5	4260.1	4249.3	4220.2	4193.2	4194.3	4209.4	4221.3	4224.5
12.5°	4433.7	4429.4	4405.7	4344.2	4298.9	4239.6	4211.6	4210.5	4225.6	4235.3	4238.5
15°	4589.0	4577.2	4515.7	4415.4	4335.6	4277.3	4232.0	4221.3	4212.6	4201.8	4202.9
17.5°	4735.7	4708.7	4606.3	4467.2	4383.0	4305.4	4218.0	4147.9	4099.4	4071.3	4062.7
20°	4884.5	4831.7	4683.9	4515.7	4408.9	4267.6	4099.4	3957.0	3868.6	3827.6	3820.1
22.5°	5020.4	4935.2	4756.2	4566.4	4388.4	4140.4	3876.1	3669.1	3546.1	3491.1	3495.4
25°	5153.1	5034.5	4831.7	4602.0	4284.9	3916.0	3565.5	3311.0	3168.6	3107.2	3105.0
27.5°	5269.6	5134.8	4913.7	4572.9	4091.8	3596.8	3197.8	2949.7	2831.1	2778.2	2769.6
30°	5403.3	5260.9	5022.6	4461.8	3809.3	3228.0	2838.6	2663.9	2579.8	2526.9	2517.2
32.5°	5566.2	5432.4	5112.1	4260.1	3448.0	2842.9	2558.2	2436.3	2359.8	2300.4	2289.7
35°	5803.4	5658.9	5134.8	3971.0	3051.1	2538.8	2352.2	2227.1	2123.6	2047.0	2039.4
37.5°	6101.1	5942.6	5083.0	3596.8	2666.1	2341.4	2180.7	2026.5	1891.7	1783.8	1766.6
40°	6530.3	6290.9	4939.5	3165.4	2382.4	2189.4	2013.6	1837.8	1670.6	1544.4	1519.6
42.5°	7045.9	6699.7	4719.5	2736.2	2174.3	2035.1	1847.5	1629.6	1470.0	1380.5	1367.5
45°	7701.6	7124.6	4414.3	2360.8	1969.3	1880.9	1668.4	1467.8	1368.6	1302.8	1292.0
47.5°	8450.1	7601.3	4094.0	2055.6	1795.7	1736.4	1525.0	1395.6	1316.9	1265.1	1255.4
50°	9370.0	8139.5	3754.3	1805.4	1621.0	1562.8	1457.1	1355.7	1293.1	1253.2	1243.5
52.5°	10407.6	8746.7	3509.4	1608.0	1476.5	1434.4	1421.5	1334.1	1283.4	1253.2	1243.5
55°	11524.9	9364.6	3245.2	1442.0	1351.4	1363.2	1397.7	1336.3	1301.8	1265.1	1251.1
57.5°	12643.3	10003.1	2950.8	1301.8	1252.1	1310.4	1381.6	1340.6	1311.5	1275.9	1262.9
60°	13527.7	10407.6	2494.6	1184.2	1173.4	1252.1	1342.7	1308.2	1270.5	1271.6	1269.4
62.5°	13940.7	10386.0	1990.9	1079.6	1094.7	1173.4	1280.2	1257.5	1226.3	1268.3	1271.6
65°	13708.9	9868.3	1549.8	984.7	1010.6	1091.4	1215.5	1232.7	1243.5	1324.4	1335.2
67.5°	12736.0	8861.0	1200.4	901.6	934.0	1035.4	1221.9	1342.7	1356.8	1442.0	1440.9
69°	11729.8	7916.2	1042.9	858.5	896.2	1049.4	1306.1	1412.8	1360.0	1450.6	1437.6
70°	10886.4	7168.8	958.8	829.4	879.0	1074.2	1362.1	1411.8	1343.8	1421.5	1399.9
72.5°	8384.3	5157.4	813.2	775.4	820.7	1027.8	1378.3	1380.5	1306.1	1321.2	1284.5
75°	5750.6	3259.2	709.7	702.1	732.3	926.4	1326.6	1319.0	1207.9	1186.4	1156.2
77.5°	3170.8	1655.5	602.9	632.0	652.5	820.7	1205.8	1195.0	1103.3	1058.0	1047.2
80°	1223.0	724.8	509.1	561.9	574.8	710.7	1056.9	1047.2	970.7	912.4	896.2
82.5°	461.6	379.6	420.6	486.4	482.1	586.7	895.2	889.8	815.3	730.1	704.3
85°	213.5	227.6	333.3	401.2	369.9	434.6	716.1	725.8	635.2	533.9	533.9
87.5°	90.6	127.3	236.2	303.1	249.1	293.4	525.2	501.5	460.5	319.2	299.8
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)