

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: P319049

Luminaire Tested: **GAN-SA5C-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35105 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

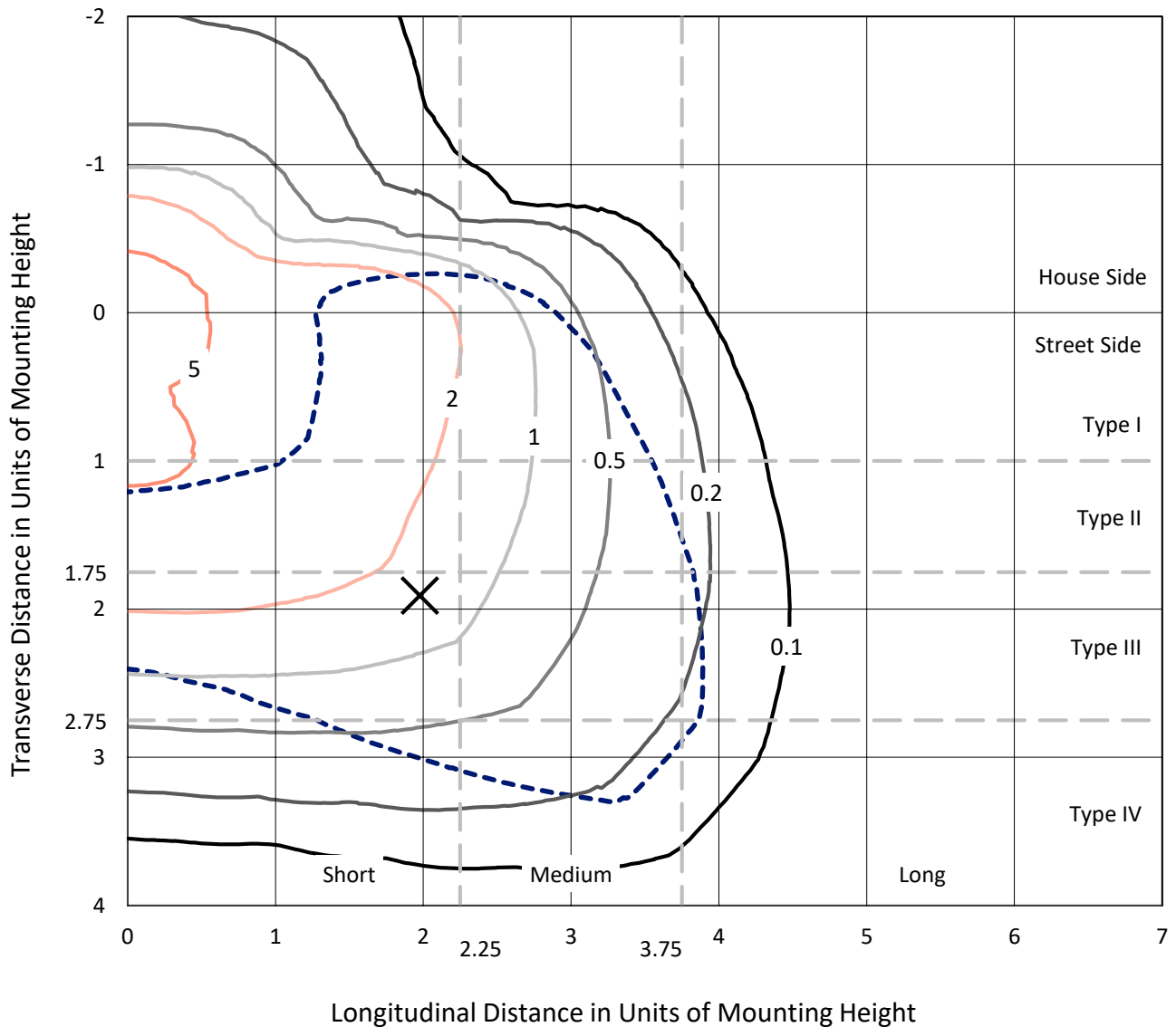
Input Watts (W): 279
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

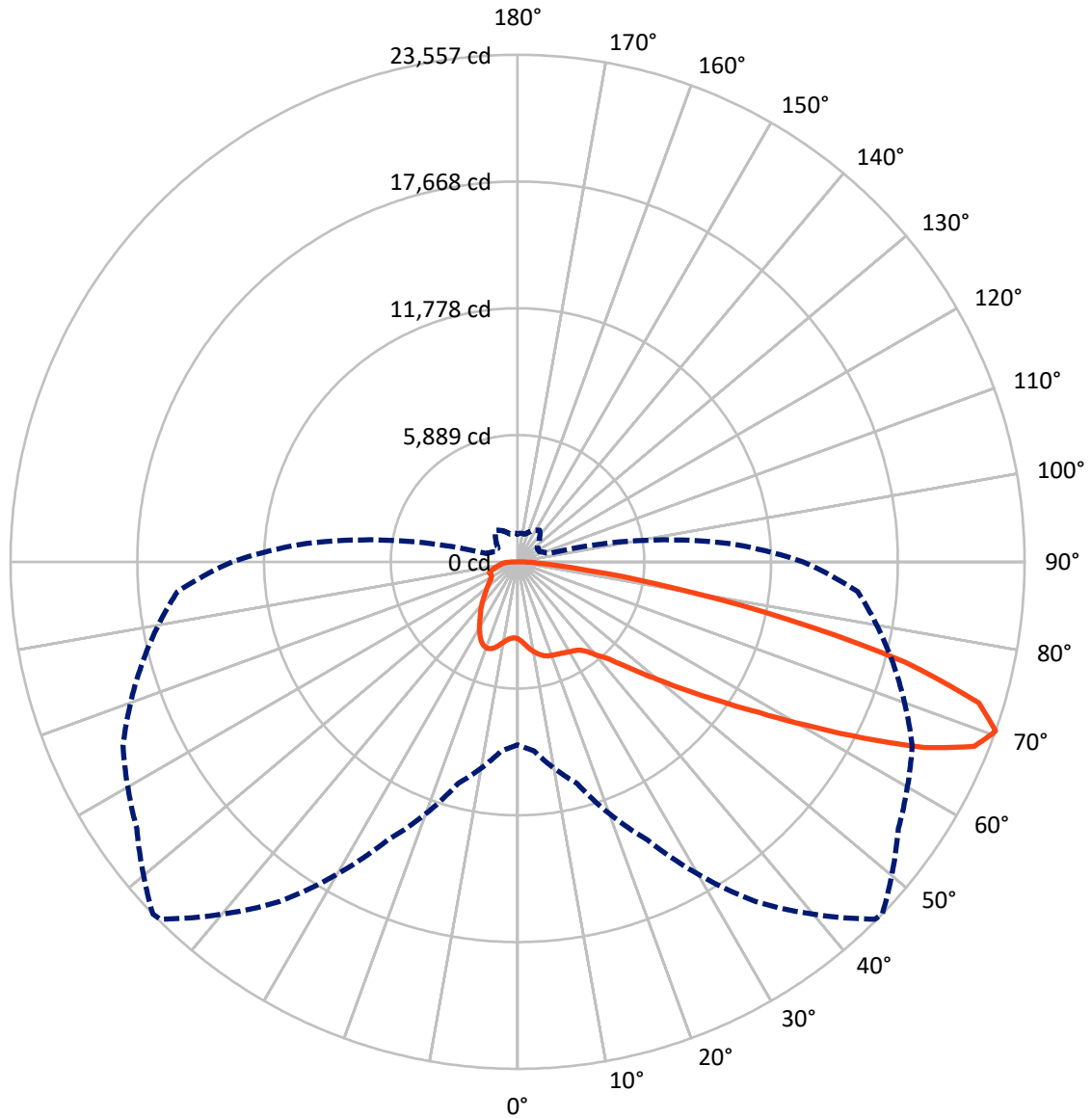
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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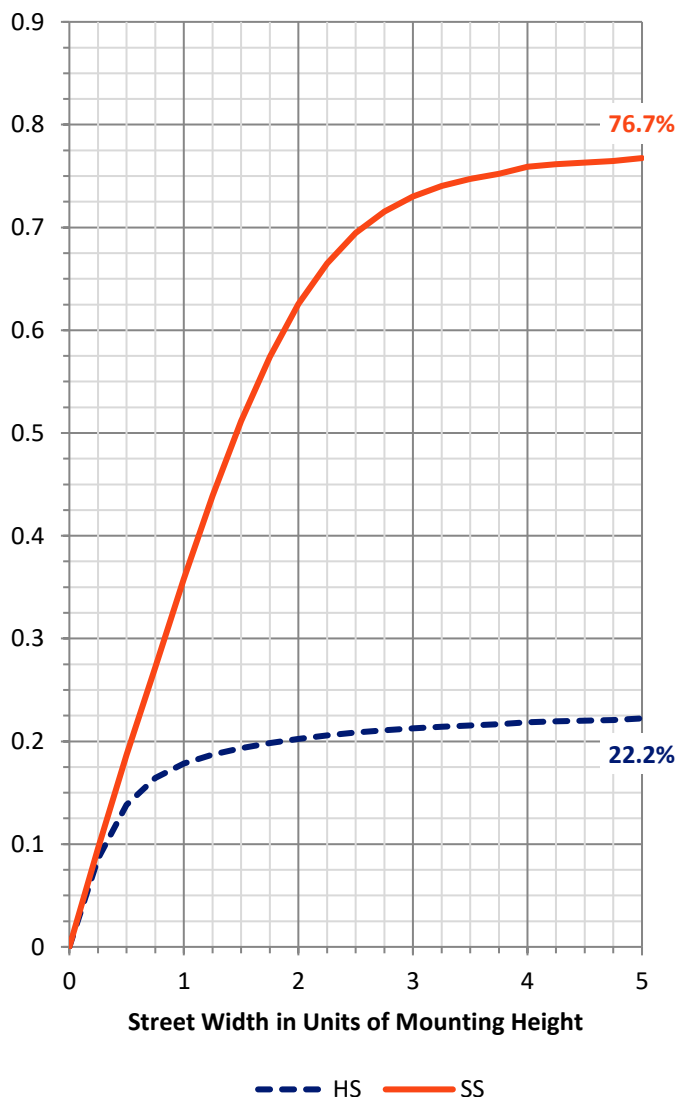
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8046.0	0.0	8046.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	27059.0	0.0	27059.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	35105.0	0.0	35105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	1.0
10°-20°	1214.7	3.5
20°-30°	2025.4	5.8
30°-40°	2874.2	8.2
40°-50°	4227.8	12.0
50°-60°	7159.8	20.4
60°-70°	10163.2	29.0
70°-80°	6174.2	17.6
80°-90°	901.1	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°	35105.0	100.0
0°-180°	35105.0	100.0

Coefficient of Utilization

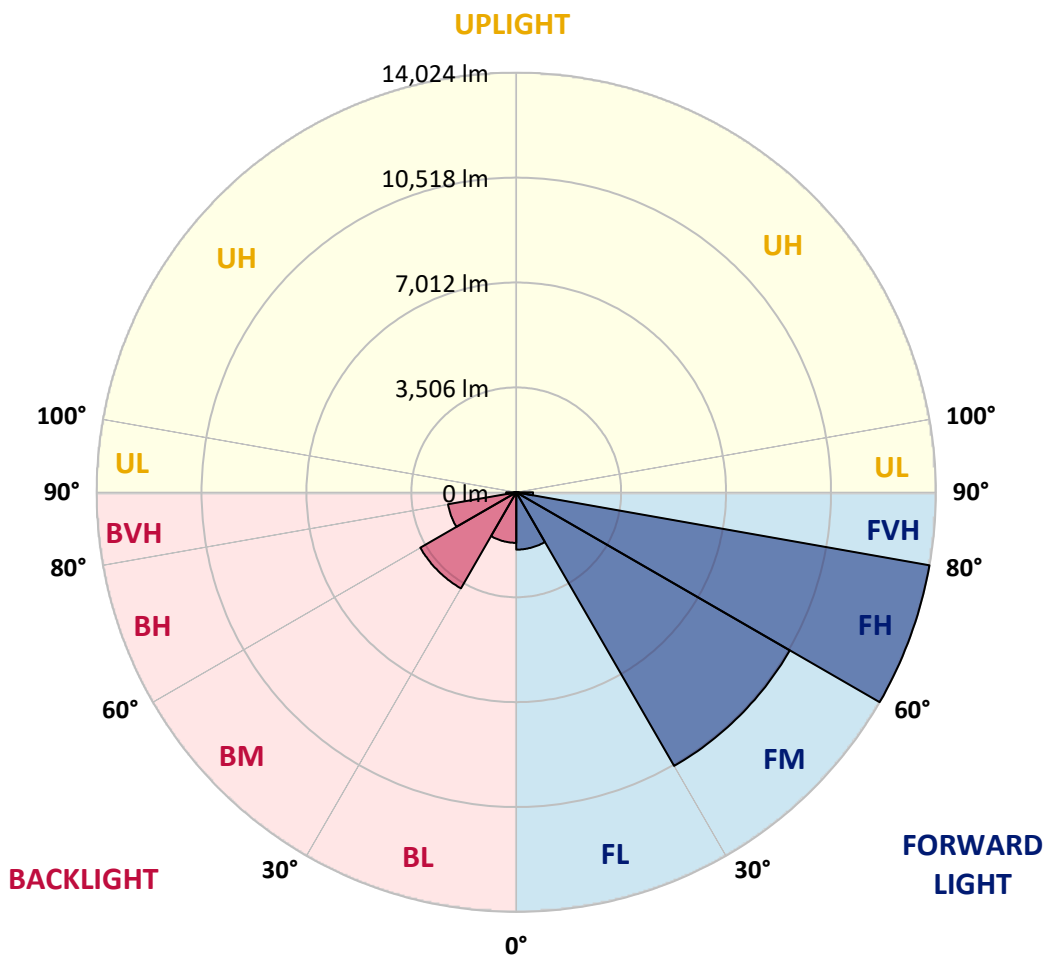


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.5	5.5			
FM (30°-60°)	10558.0	30.1			
FH (60°-80°)	14024.3	39.9			G5
FVH (80°-90°)	561.3	1.6			G4/750
BL (0°-30°)	1689.3	4.8	B3/2500		
BM (30°-60°)	3703.8	10.6	B3/5000		
BH (60°-80°)	2313.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	339.8	1.0			G3/500
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°	35°	45°	46°	55°	65°	75°	85°
0°	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5
2.5°	3755.5	3757.9	3762.7	3750.7	3717.1	3707.5	3703.9	3669.0	3646.2	3612.6	3583.7
5°	4055.9	4058.3	4051.1	4017.4	3942.9	3887.7	3882.9	3803.6	3731.5	3654.6	3596.9
7.5°	4369.4	4373.0	4350.2	4286.5	4182.0	4085.9	4079.9	3971.8	3862.4	3745.9	3659.4
10°	4646.9	4632.5	4595.3	4506.4	4382.6	4264.9	4260.1	4147.2	4021.0	3880.5	3765.1
12.5°	4832.0	4819.9	4771.9	4663.8	4528.0	4419.9	4410.3	4305.8	4183.2	4029.4	3891.3
15°	4934.1	4942.5	4877.6	4755.1	4622.9	4531.6	4523.2	4448.7	4339.4	4184.4	4025.8
17.5°	4947.3	4954.5	4892.0	4770.7	4662.6	4600.1	4596.5	4547.2	4467.9	4319.0	4153.2
20°	4870.4	4875.2	4823.5	4723.8	4653.0	4633.7	4632.5	4610.9	4552.0	4419.9	4258.9
22.5°	4758.7	4762.3	4725.0	4653.0	4628.9	4659.0	4667.4	4659.0	4616.9	4493.2	4341.8
25°	4731.0	4728.6	4690.2	4616.9	4637.3	4701.0	4711.8	4715.4	4686.6	4578.5	4447.5
27.5°	4864.4	4856.0	4782.7	4665.0	4678.2	4755.1	4769.5	4804.3	4786.3	4691.4	4567.7
30°	5250.0	5235.6	5085.4	4847.6	4782.7	4822.3	4840.4	4895.6	4899.2	4819.9	4727.4
32.5°	5901.2	5883.2	5614.1	5188.8	4959.3	4890.8	4907.6	4990.5	5035.0	4973.7	4874.0
35°	6724.1	6703.7	6350.5	5769.0	5254.8	5021.8	5033.8	5099.9	5188.8	5102.3	4970.1
37.5°	7581.9	7532.7	7192.7	6451.4	5724.6	5301.7	5301.7	5310.1	5352.2	5171.9	5083.0
40°	8434.9	8385.6	8078.1	7253.9	6332.5	5742.6	5715.0	5528.8	5495.1	5340.1	5310.1
42.5°	9227.8	9213.4	9032.0	8161.0	7046.1	6176.3	6137.9	5821.9	5829.1	5733.0	5734.2
45°	10071.2	10071.2	9923.4	9076.4	7877.5	6873.1	6834.7	6369.7	6441.8	6397.4	6504.3
47.5°	10759.6	10781.2	10760.8	10030.3	8844.6	7758.5	7688.8	7129.0	7330.8	7483.4	7794.6
50°	11462.4	11496.0	11499.6	11076.7	10013.5	8810.9	8731.6	8137.0	8587.5	9024.8	9636.3
52.5°	12482.4	12558.0	12256.5	12120.7	11445.6	10060.4	9982.3	9433.2	10185.3	10799.2	11852.8
55°	13427.8	13361.8	13146.7	13230.8	12978.5	11482.8	11423.9	10942.2	11965.8	12763.5	14131.8
57.5°	13939.6	13934.8	14151.1	14511.5	14631.6	13236.8	13187.6	12719.0	13973.3	14572.8	16271.5
60°	14540.3	14548.7	15084.5	15902.7	16397.7	15420.9	15399.3	15043.7	15923.1	16261.9	17949.8
62.5°	14624.4	14775.8	15698.5	17106.5	18050.8	17972.7	18020.7	17137.7	17667.5	17609.8	19202.9
65°	13657.3	13856.7	15526.7	17470.5	19694.2	20763.5	20807.9	19243.7	19043.1	18762.0	19651.0
67.5°	11675.0	11970.6	13784.7	16678.8	20236.1	22826.2	22888.7	20876.4	20184.4	19152.4	18572.2
70°	8496.2	8824.1	10650.2	14244.8	19270.2	23485.8	23556.7	21598.4	20227.7	18041.1	15854.6
72.5°	5132.3	5389.4	6894.7	10486.9	16264.3	22284.4	22410.6	20683.0	18467.6	15281.6	11707.5
75°	2253.8	2422.0	3333.8	6042.9	11643.8	18437.6	18595.0	17703.6	15005.3	11105.6	6920.0
77.5°	959.9	1008.0	1367.2	2625.0	6582.4	12598.9	12815.1	12935.3	10180.5	6042.9	2924.2
80°	598.3	617.5	773.7	1188.2	3080.3	7076.1	7309.2	7610.8	5055.4	2221.4	1021.2
82.5°	364.0	385.6	514.2	718.4	1603.8	3207.7	3319.4	3532.1	1961.9	959.9	528.6
85°	218.7	234.3	314.8	454.1	913.0	1261.5	1260.2	1393.6	923.9	617.5	278.7
87.5°	104.5	116.5	168.2	235.5	460.1	473.3	443.3	502.2	561.0	404.9	140.6
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°	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5
2.5°	3574.1	3569.3	3553.7	3541.7	3539.3	3532.1	3526.1	3529.7	3534.5	3535.7	3535.7
5°	3572.9	3559.7	3539.3	3530.9	3541.7	3556.1	3574.1	3598.1	3612.6	3623.4	3630.6
7.5°	3630.6	3605.3	3582.5	3577.7	3599.3	3637.8	3678.6	3729.1	3763.9	3788.0	3792.8
10°	3726.7	3695.4	3672.6	3677.4	3715.9	3771.1	3828.8	3893.7	3946.5	3979.0	3981.4
12.5°	3837.2	3807.2	3785.6	3806.0	3869.6	3936.9	3997.0	4053.5	4101.5	4134.0	4134.0
15°	3964.6	3942.9	3917.7	3964.6	4051.1	4111.1	4136.4	4164.0	4190.4	4214.4	4209.6
17.5°	4087.1	4066.7	4053.5	4108.7	4198.8	4226.5	4209.6	4189.2	4189.2	4202.4	4204.8
20°	4192.8	4174.8	4183.2	4237.3	4284.1	4255.3	4192.8	4127.9	4101.5	4108.7	4115.9
22.5°	4285.3	4276.9	4302.1	4327.4	4293.7	4192.8	4077.5	3989.8	3957.4	3954.9	3957.4
25°	4393.5	4392.3	4423.5	4377.8	4228.9	4042.6	3887.7	3802.4	3784.4	3798.8	3822.8
27.5°	4528.0	4541.2	4556.8	4389.8	4096.7	3815.6	3658.2	3599.3	3617.4	3652.2	3675.0
30°	4699.8	4735.8	4702.2	4359.8	3906.9	3556.1	3405.9	3389.1	3438.4	3487.6	3511.6
32.5°	4866.8	4923.3	4841.6	4281.7	3661.8	3281.0	3164.4	3159.6	3219.7	3267.8	3301.4
35°	5001.4	5113.1	4946.1	4126.7	3378.3	3027.5	2942.2	2909.7	2931.4	2987.8	3026.3
37.5°	5176.8	5363.0	5018.2	3890.1	3070.7	2818.4	2718.7	2644.2	2625.0	2647.8	2667.1
40°	5497.5	5743.8	5051.8	3559.7	2770.4	2609.4	2508.5	2399.2	2323.5	2268.2	2269.4
42.5°	6021.3	6240.0	5030.2	3158.4	2492.9	2405.2	2291.0	2164.9	2042.3	1917.4	1907.8
45°	6871.9	6977.6	4965.3	2733.1	2249.0	2191.3	2084.4	1958.3	1794.9	1653.1	1639.9
47.5°	8233.1	7998.8	4864.4	2361.9	2033.9	2009.9	1911.4	1766.0	1593.0	1478.9	1469.3
50°	10089.2	9472.9	4815.1	2066.4	1844.1	1851.3	1770.8	1617.1	1453.7	1369.6	1360.0
52.5°	12309.4	11189.7	4910.0	1838.1	1691.5	1716.8	1656.7	1512.5	1375.6	1309.5	1299.9
55°	14612.4	12967.7	5012.2	1672.3	1547.4	1596.6	1576.2	1457.3	1333.5	1272.3	1263.9
57.5°	16583.9	14295.2	4807.9	1537.8	1418.8	1495.7	1513.7	1422.4	1311.9	1256.6	1247.0
60°	17824.9	14829.9	4272.1	1411.6	1316.7	1415.2	1477.7	1412.8	1320.3	1315.5	1308.3
62.5°	18413.6	14783.0	3468.4	1311.9	1253.0	1380.4	1504.1	1466.9	1416.4	1459.7	1463.3
65°	18149.3	14076.6	2583.0	1245.8	1207.4	1393.6	1583.4	1569.0	1444.1	1487.3	1493.3
67.5°	16409.7	12391.0	1912.6	1188.2	1156.9	1430.8	1727.6	1602.6	1390.0	1421.2	1402.0
70°	13263.3	9823.7	1475.3	1123.3	1105.3	1426.0	1792.5	1582.2	1331.1	1338.3	1286.7
72.5°	9146.1	6698.9	1200.2	1063.2	1030.8	1299.9	1746.8	1531.8	1281.9	1226.6	1158.1
75°	4973.7	3595.7	1020.0	1000.8	899.8	1141.3	1662.7	1495.7	1237.4	1164.1	1125.7
77.5°	1957.1	1492.1	885.4	915.5	786.9	1008.0	1569.0	1427.2	1176.2	1080.0	1060.8
80°	798.9	761.7	734.0	791.7	676.4	881.8	1456.1	1346.7	1102.9	1002.0	963.5
82.5°	452.9	473.3	570.7	624.7	549.0	812.1	1402.0	1281.9	1015.2	897.4	851.8
85°	231.9	277.5	397.7	448.1	403.7	690.8	1291.5	1122.1	814.5	687.2	690.8
87.5°	111.7	155.0	251.1	281.1	261.9	499.8	964.7	813.3	634.3	502.2	486.6
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)