

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: P318409

Luminaire Tested: **GAN-SA5C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318409
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-SA5C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35358 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

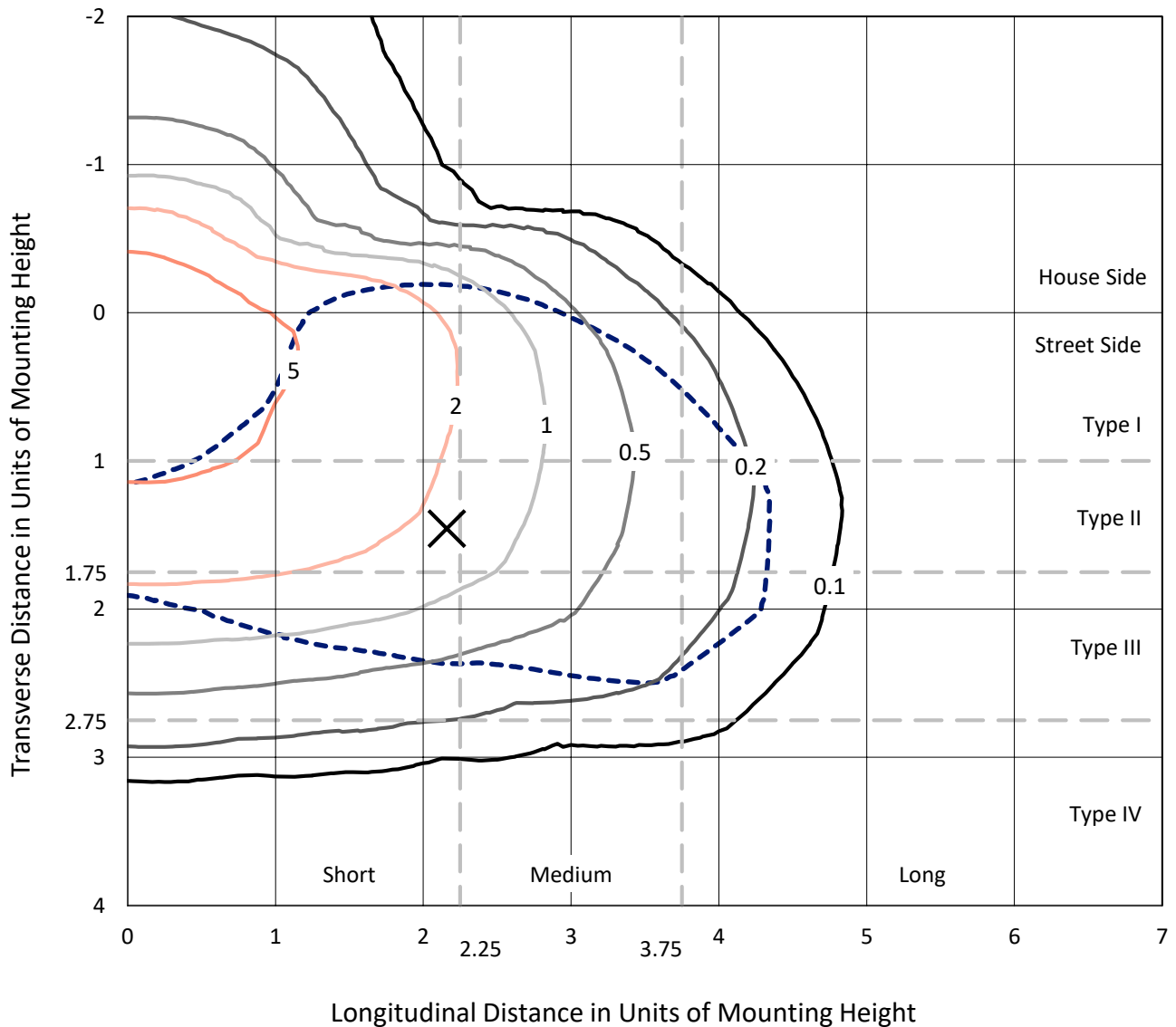
Input Watts (W): 279
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

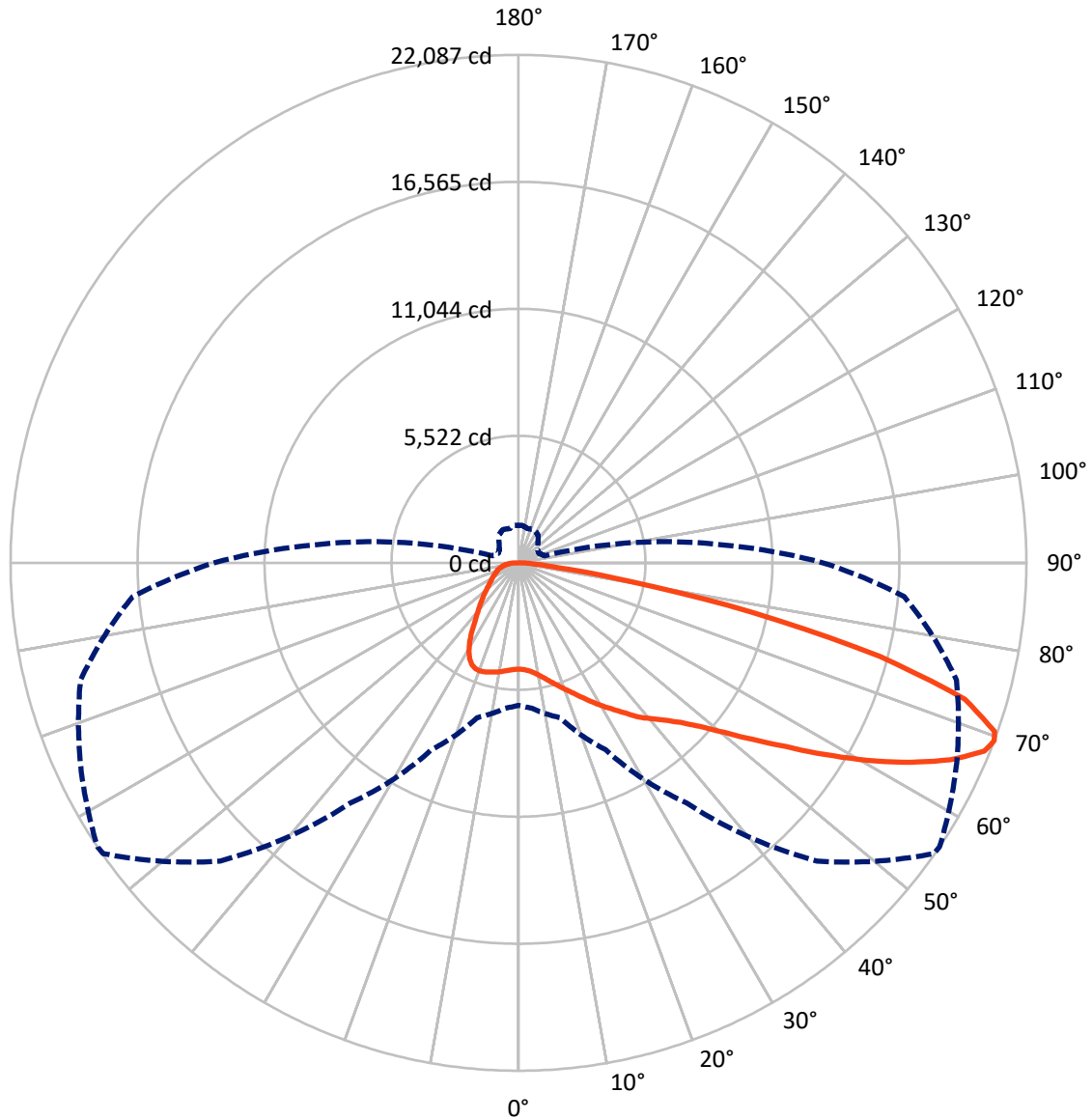
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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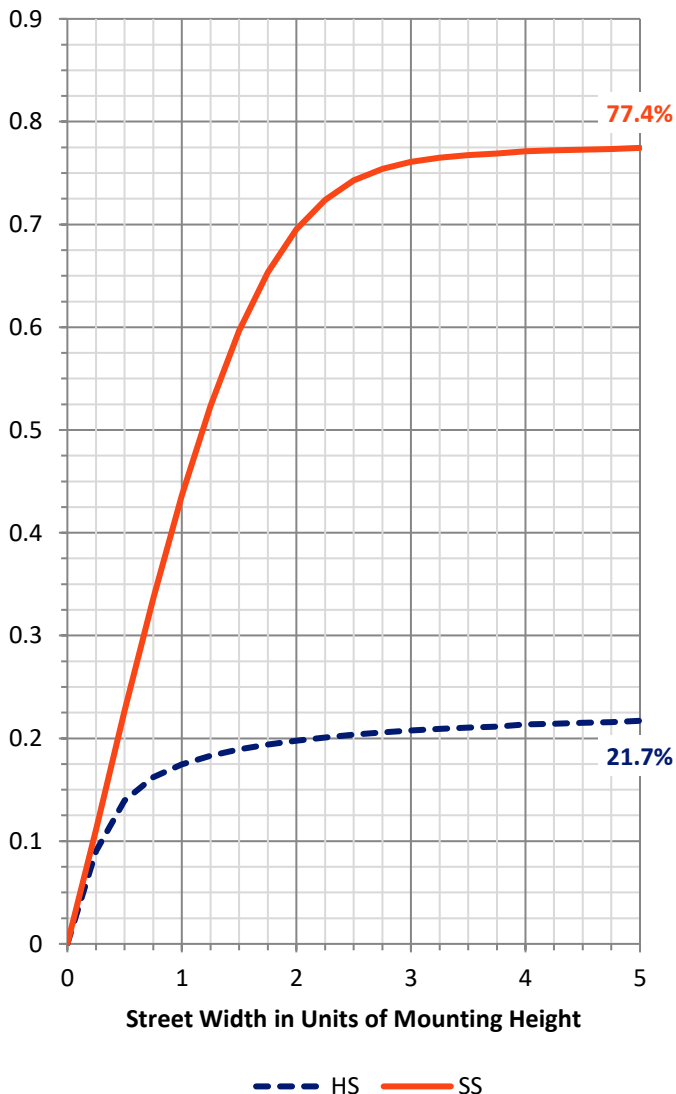
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7874.2	0.0	7874.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27483.8	0.0	27483.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	35358.0	0.0	35358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	1.3
10°-20°	1459.9	4.1
20°-30°	2548.4	7.2
30°-40°	3660.7	10.4
40°-50°	5066.2	14.3
50°-60°	7422.8	21.0
60°-70°	9049.7	25.6
70°-80°	5003.3	14.2
80°-90°	693.0	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°	35358.0	100.0
0°-180°	35358.0	100.0



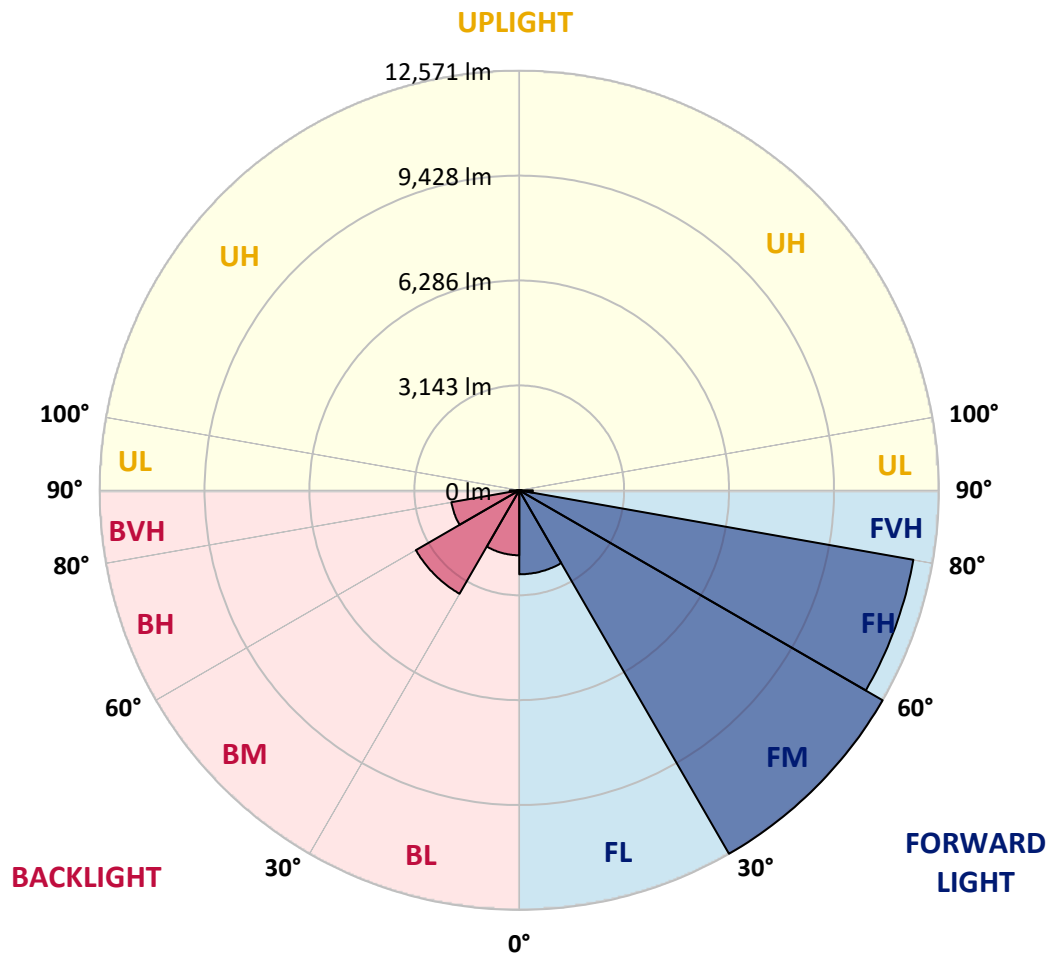
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2516.4	7.1			
FM (30°-60°)	12571.1	35.6			
FH (60°-80°)	11988.1	33.9			G4/12000
FVH (80°-90°)	408.2	1.2			G3/500
BL (0°-30°)	1945.9	5.5	B3/2500		
BM (30°-60°)	3578.6	10.1	B3/5000		
BH (60°-80°)	2064.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	284.8	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°	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5
2.5°	4651.8	4656.6	4653.0	4662.7	4651.8	4659.1	4653.0	4653.0	4649.3	4638.4	4626.2
5°	4724.8	4734.6	4728.5	4738.2	4724.8	4727.3	4716.3	4716.3	4705.4	4682.2	4657.8
7.5°	4839.3	4850.3	4845.4	4855.2	4836.9	4836.9	4822.3	4821.1	4799.1	4761.4	4733.4
10°	4975.8	4990.4	4985.5	5000.1	4985.5	4990.4	4975.8	4975.8	4946.5	4892.9	4857.6
12.5°	5174.3	5192.6	5179.2	5178.0	5171.9	5181.6	5169.4	5167.0	5140.2	5067.1	5018.4
15°	5439.8	5459.3	5431.3	5428.9	5394.8	5391.1	5391.1	5387.5	5370.4	5282.7	5202.3
17.5°	5745.6	5751.7	5727.3	5688.3	5644.5	5616.5	5612.8	5622.6	5622.6	5520.2	5392.3
20°	6045.2	6056.2	6036.7	5992.8	5936.8	5895.4	5866.2	5885.7	5884.4	5762.6	5581.1
22.5°	6371.7	6397.2	6368.0	6312.0	6246.2	6199.9	6148.8	6165.8	6167.0	6017.2	5766.3
25°	6794.3	6771.2	6752.9	6673.7	6579.9	6532.4	6484.9	6502.0	6497.1	6291.3	5957.5
27.5°	7168.3	7173.1	7148.8	7064.7	6956.3	6851.6	6849.1	6860.1	6841.8	6576.3	6137.8
30°	7603.1	7605.5	7571.4	7495.9	7377.8	7242.6	7210.9	7229.2	7190.2	6846.7	6327.8
32.5°	8035.5	8047.7	8009.9	7918.6	7823.6	7659.1	7595.8	7608.0	7510.5	7123.2	6523.9
35°	8414.3	8431.4	8419.2	8358.3	8254.8	8113.5	8038.0	8030.6	7910.1	7461.8	6783.4
37.5°	8800.5	8816.3	8802.9	8751.7	8710.3	8560.5	8520.3	8520.3	8310.8	7807.7	7113.5
40°	9197.5	9221.9	9206.1	9135.4	9100.1	9031.9	8935.7	8912.5	8686.0	8223.1	7651.8
42.5°	9566.6	9598.3	9661.6	9620.2	9548.3	9558.1	9364.4	9352.2	9186.6	8837.0	8327.9
45°	10090.4	10136.7	10243.9	10212.2	10197.6	10144.0	9913.8	9902.8	9839.5	9662.8	9167.1
47.5°	10661.7	10725.0	10918.7	10924.8	11081.9	10980.8	10667.7	10630.0	10644.6	10651.9	10191.5
50°	11187.9	11257.3	11575.2	11725.0	12095.3	12117.2	11616.6	11582.5	11639.8	11807.8	11385.2
52.5°	11608.1	11695.8	12092.9	12555.7	13190.3	13370.6	12784.7	12759.1	12801.8	13091.7	12734.8
55°	11916.3	12011.3	12443.7	13286.6	14300.0	14617.9	14129.5	14105.1	14131.9	14501.0	14202.5
57.5°	11988.1	12011.3	12638.6	13778.7	15236.7	16000.4	15775.1	15726.3	15594.8	15916.4	15822.6
60°	11650.7	11743.3	12477.8	13951.6	15961.4	17363.4	17495.0	17434.0	17065.0	17328.1	17252.6
62.5°	10966.2	11131.8	11877.3	13688.5	16245.2	18476.7	19182.0	19108.9	18473.1	18643.6	18280.6
65°	9848.0	9918.6	10701.8	12781.1	15884.7	19189.3	20686.3	20649.7	19849.5	19582.7	18470.6
67.5°	7847.9	7980.7	8645.8	10884.6	14409.6	19105.2	21849.5	21845.9	20748.4	19931.1	17797.0
69°	6199.9	6337.6	6970.9	8966.1	12750.6	18336.6	22044.4	22087.0	21001.7	19719.1	16834.8
70°	4942.9	5102.4	5537.3	7552.0	11278.0	17323.2	21882.4	21959.1	20953.0	19369.5	15946.8
72.5°	2103.6	2232.7	2542.1	3892.9	6873.5	12935.8	20007.8	20297.7	19823.9	17727.6	13179.4
75°	918.4	958.6	1098.7	1587.1	3051.2	7040.4	15674.0	16209.9	16950.5	14984.5	9817.5
77.5°	672.4	689.4	766.2	931.8	1369.1	2659.0	10079.4	10391.2	12224.4	10904.0	6022.1
80°	520.1	532.3	592.0	684.5	894.1	1075.5	4596.9	4864.9	6873.5	5600.6	2508.0
82.5°	414.1	422.7	464.1	504.3	617.6	651.7	1526.2	1693.1	2537.2	1546.9	663.8
85°	384.9	394.7	409.3	367.9	395.9	382.5	660.2	690.6	766.2	607.8	277.7
87.5°	174.2	205.9	405.6	286.2	210.7	168.1	270.4	282.6	317.9	319.1	123.0
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°	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5	4622.5
2.5°	4633.5	4629.8	4635.9	4621.3	4639.6	4638.4	4632.3	4634.7	4646.9	4645.7	4646.9
5°	4661.5	4659.1	4666.4	4655.4	4677.3	4684.6	4685.9	4696.8	4710.2	4713.9	4713.9
7.5°	4732.2	4732.2	4735.8	4721.2	4735.8	4734.6	4728.5	4739.5	4752.9	4754.1	4752.9
10°	4854.0	4855.2	4849.1	4811.3	4799.1	4766.3	4735.8	4737.0	4754.1	4767.5	4771.1
12.5°	5007.4	5002.6	4975.8	4906.3	4855.2	4788.2	4756.5	4755.3	4772.3	4783.3	4787.0
15°	5182.8	5169.4	5100.0	4986.7	4896.6	4830.8	4779.7	4767.5	4757.7	4745.6	4746.8
17.5°	5348.5	5318.0	5202.3	5045.2	4950.2	4862.5	4763.8	4684.6	4629.8	4598.2	4588.4
20°	5516.6	5456.9	5290.0	5100.0	4979.4	4819.9	4629.8	4469.1	4369.2	4322.9	4314.4
22.5°	5670.1	5573.8	5371.6	5157.3	4956.3	4676.1	4377.7	4143.8	4005.0	3942.9	3947.7
25°	5819.9	5685.9	5456.9	5197.4	4839.3	4422.8	4026.9	3739.4	3578.7	3509.2	3506.8
27.5°	5951.4	5799.2	5549.5	5164.6	4621.3	4062.2	3611.5	3331.4	3197.4	3137.7	3128.0
30°	6102.5	5941.7	5672.5	5039.1	4302.2	3645.6	3205.9	3008.6	2913.6	2853.9	2842.9
32.5°	6286.4	6135.4	5773.6	4811.3	3894.1	3210.8	2889.2	2751.6	2665.1	2598.1	2585.9
35°	6554.4	6391.1	5799.2	4484.9	3445.9	2867.3	2656.6	2515.3	2398.4	2311.9	2303.3
37.5°	6890.5	6711.5	5740.7	4062.2	3011.0	2644.4	2462.9	2288.7	2136.5	2014.7	1995.2
40°	7375.3	7104.9	5578.7	3575.0	2690.7	2472.7	2274.1	2075.6	1886.8	1744.3	1716.2
42.5°	7957.6	7566.6	5330.2	3090.2	2455.6	2298.5	2086.5	1840.5	1660.2	1559.1	1544.5
45°	8698.1	8046.5	4985.5	2666.3	2224.2	2124.3	1884.3	1657.8	1545.7	1471.4	1459.2
47.5°	9543.5	8584.9	4623.7	2321.6	2028.1	1961.1	1722.3	1576.2	1487.2	1428.8	1417.8
50°	10582.5	9192.7	4240.1	2039.0	1830.7	1765.0	1645.6	1531.1	1460.5	1415.4	1404.4
52.5°	11754.2	9878.4	3963.6	1816.1	1667.5	1620.0	1605.4	1506.7	1449.5	1415.4	1404.4
55°	13016.2	10576.4	3665.1	1628.5	1526.2	1539.6	1578.6	1509.2	1470.2	1428.8	1412.9
57.5°	14279.3	11297.5	3332.6	1470.2	1414.2	1479.9	1560.3	1514.0	1481.2	1441.0	1426.3
60°	15278.1	11754.2	2817.4	1337.4	1325.2	1414.2	1516.5	1477.5	1434.9	1436.1	1433.7
62.5°	15744.6	11729.9	2248.5	1219.3	1236.3	1325.2	1445.8	1420.3	1384.9	1432.4	1436.1
65°	15482.7	11145.2	1750.3	1112.1	1141.3	1232.7	1372.8	1392.2	1404.4	1495.8	1508.0
67.5°	14384.0	10007.6	1355.7	1018.3	1054.8	1169.3	1380.1	1516.5	1532.3	1628.5	1627.3
69°	13247.6	8940.5	1177.9	969.6	1012.2	1185.2	1475.1	1595.7	1536.0	1638.3	1623.7
70°	12295.1	8096.4	1082.9	936.7	992.7	1213.2	1538.4	1594.4	1517.7	1605.4	1581.0
72.5°	9469.2	5824.7	918.4	875.8	926.9	1160.8	1556.7	1559.1	1475.1	1492.1	1450.7
75°	6494.7	3681.0	801.5	793.0	827.1	1046.3	1498.2	1489.7	1364.2	1339.9	1305.8
77.5°	3581.1	1869.7	680.9	713.8	736.9	926.9	1361.8	1349.6	1246.1	1194.9	1182.7
80°	1381.3	818.5	574.9	634.6	649.2	802.7	1193.7	1182.7	1096.3	1030.5	1012.2
82.5°	521.3	428.8	475.0	549.3	544.5	662.6	1011.0	1004.9	920.9	824.6	795.4
85°	241.2	257.0	376.4	453.1	417.8	490.9	808.8	819.8	717.4	602.9	602.9
87.5°	102.3	143.7	266.8	342.3	281.4	331.3	593.2	566.4	520.1	360.5	338.6
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)