

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: P318689

Luminaire Tested: **GAN-SA5C-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32387 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

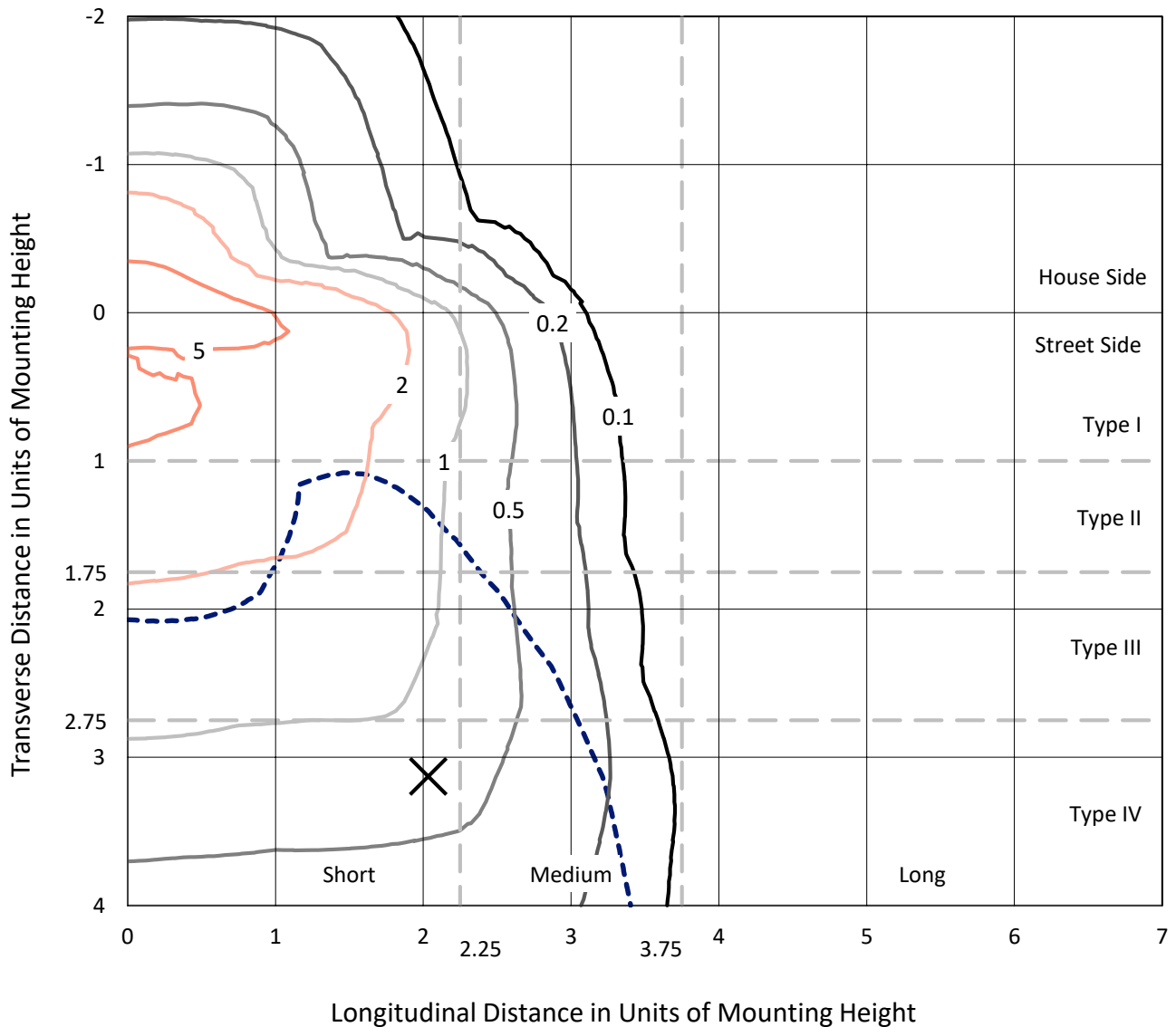
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

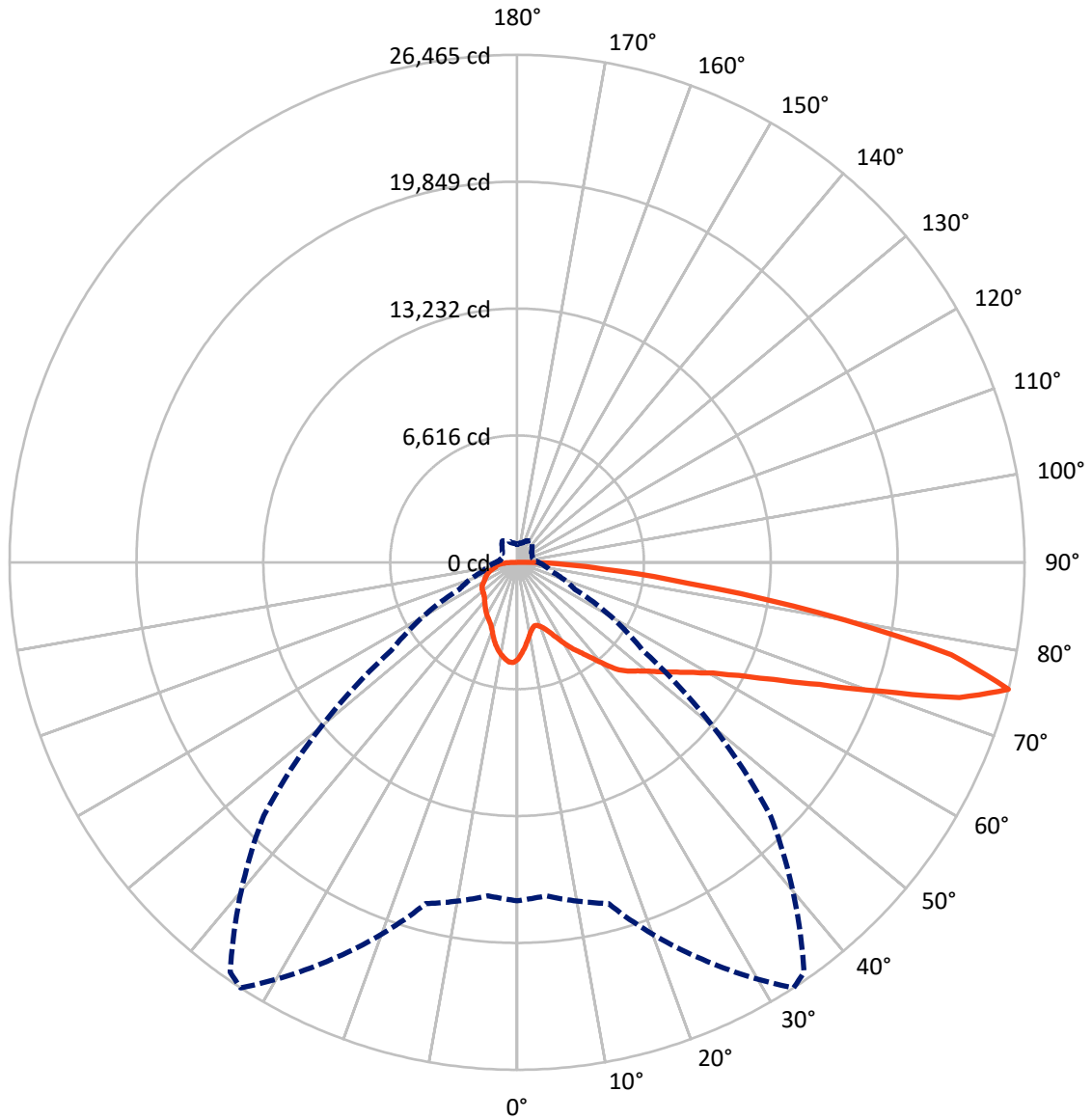
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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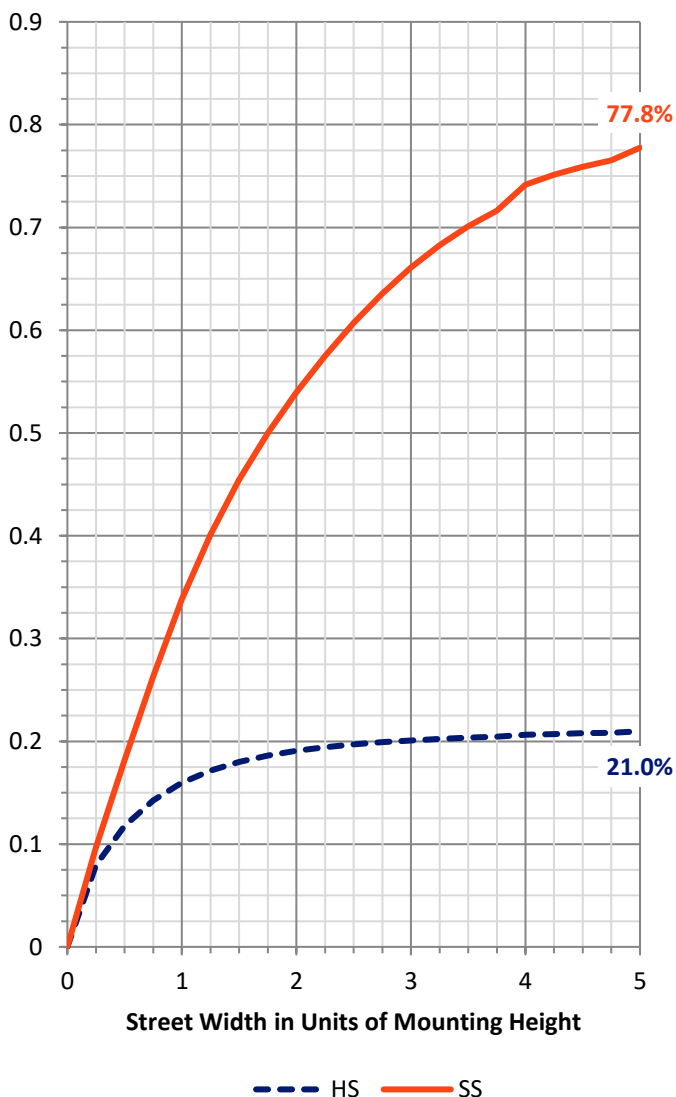
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6954.3	0.0	6954.3
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	25432.7	0.0	25432.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	32387.0	0.0	32387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.8	1.4
10°-20°	1240.0	3.8
20°-30°	2025.0	6.3
30°-40°	3015.8	9.3
40°-50°	4325.4	13.4
50°-60°	5938.1	18.3
60°-70°	7434.3	23.0
70°-80°	6725.5	20.8
80°-90°	1225.1	3.8
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°	32387.0	100.0
0°-180°	32387.0	100.0

**Coefficient of Utilization**



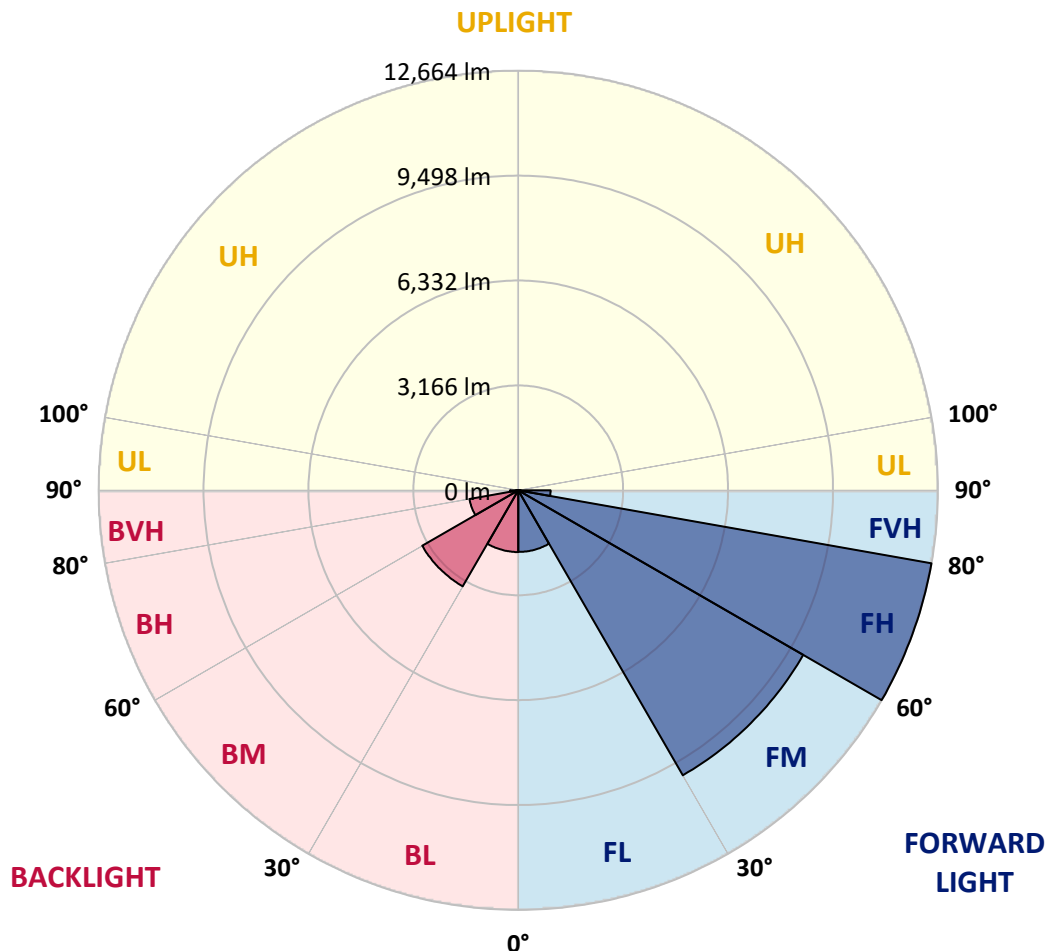
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.1	5.7			
FM (30°-60°)	9932.4	30.7			
FH (60°-80°)	12664.4	39.1			G5
FVH (80°-90°)	975.7	3.0			G5
BL (0°-30°)	1862.7	5.8	B3/2500		
BM (30°-60°)	3346.9	10.3	B3/5000		
BH (60°-80°)	1495.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	249.4	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3
2.5°	4700.9	4683.0	4716.6	4721.1	4750.1	4761.3	4801.6	4864.3	4915.7	4975.0	5028.7
5°	4274.7	4262.4	4309.4	4342.9	4406.7	4433.5	4528.6	4661.8	4780.3	4914.6	5036.5
7.5°	3869.7	3863.0	3915.6	3991.6	4065.5	4102.4	4266.9	4460.4	4658.4	4875.4	5062.3
10°	3528.5	3526.2	3576.6	3651.5	3760.1	3801.5	4014.0	4269.1	4546.5	4845.2	5105.9
12.5°	3337.2	3345.0	3368.5	3431.2	3531.8	3573.2	3809.3	4109.1	4452.6	4835.2	5169.7
15°	3384.2	3396.5	3356.2	3354.0	3425.6	3458.0	3679.5	3995.0	4385.4	4851.9	5262.5
17.5°	3584.4	3586.7	3480.4	3413.3	3456.9	3473.7	3639.2	3930.1	4346.3	4890.0	5378.9
20°	3866.3	3860.7	3672.8	3560.9	3584.4	3588.9	3696.3	3931.2	4342.9	4956.0	5529.9
22.5°	4240.0	4198.6	3945.8	3793.6	3788.0	3781.3	3842.9	4014.0	4392.1	5063.4	5710.0
25°	4727.8	4688.6	4340.7	4132.6	4087.9	4071.1	4080.0	4190.8	4489.5	5178.6	5911.4
27.5°	5270.4	5202.1	4866.5	4572.3	4479.4	4455.9	4402.2	4440.3	4595.8	5289.4	6150.8
30°	5724.6	5687.6	5394.5	5045.5	4935.9	4902.3	4761.3	4719.9	4749.0	5440.4	6452.9
32.5°	5978.5	5953.9	5776.0	5494.1	5392.3	5345.3	5146.2	5063.4	4995.1	5678.7	6862.3
35°	6286.2	6270.5	6163.1	5958.4	5807.3	5758.1	5603.7	5517.6	5342.0	6006.5	7391.5
37.5°	6677.7	6660.9	6663.2	6497.6	6317.5	6271.6	6169.8	6079.2	5791.7	6437.2	7966.5
40°	7120.7	7088.3	7076.0	7068.2	6954.0	6928.3	6874.6	6751.6	6355.5	6951.8	8533.7
42.5°	7787.5	7672.3	7426.2	7519.0	7632.0	7618.6	7662.2	7485.4	6982.0	7560.4	9087.5
45°	8430.8	8241.7	7816.6	7836.7	8084.0	8158.9	8485.6	8360.3	7661.1	8227.2	9660.3
47.5°	8723.9	8580.7	8219.3	8220.5	8465.5	8621.0	9337.0	9247.5	8374.8	8984.5	10359.5
50°	9051.7	8908.5	8584.0	8706.0	8919.7	9085.2	10159.2	10113.4	9053.9	9813.5	11197.4
52.5°	9409.7	9166.9	8961.1	9179.2	9479.0	9671.5	10982.6	10857.3	9677.0	10648.1	12160.6
55°	9414.1	9348.1	9504.8	9664.7	10113.4	10349.4	11845.2	11514.0	10185.0	11468.1	12944.9
57.5°	9950.0	9842.6	10174.9	10248.7	10834.9	11101.2	12703.2	12085.7	10701.8	12096.9	13367.7
60°	10659.3	10567.6	10839.4	11034.1	11727.7	12083.4	13619.5	12673.0	11107.9	12571.2	13347.6
62.5°	11884.3	11780.3	11776.9	12049.9	12984.0	13398.0	14647.6	13249.2	11269.0	12665.2	12778.2
65°	13677.6	13512.1	13199.9	13329.7	14719.2	15132.0	15796.5	13666.5	11056.4	12161.8	11311.5
67.5°	15422.9	15417.3	15033.5	15299.8	17010.3	17341.5	17105.4	13707.8	10393.0	10408.7	8709.3
70°	17162.5	17184.9	17120.0	18046.3	20105.9	20450.5	18499.4	13151.8	8901.8	7516.8	5217.8
72.5°	18540.8	18535.2	18861.8	21250.3	24123.3	24046.1	19674.0	11467.0	6391.3	4057.6	2493.7
75°	17648.0	17453.4	18426.7	22836.7	26464.8	26087.7	18675.0	7998.9	3317.0	1847.0	1342.5
77.5°	11510.7	11695.2	13123.9	18865.2	23148.8	22690.2	13701.1	3732.1	1562.9	1211.6	973.3
80°	4168.4	4363.1	6145.2	10686.1	15948.7	15873.7	6747.1	1533.8	1057.2	915.1	709.3
82.5°	1434.2	1505.8	2424.3	4745.7	9004.7	9340.3	2538.4	871.5	768.6	648.9	485.5
85°	562.7	644.4	1108.7	2283.3	4542.1	4575.6	1028.1	521.3	534.8	425.1	266.3
87.5°	213.7	259.5	530.3	1060.6	2074.1	1905.2	368.1	248.4	304.3	252.8	126.4
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°	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3	5062.3
2.5°	5070.1	5093.6	5142.8	5176.4	5212.2	5222.2	5226.7	5235.7	5244.6	5241.3	5242.4
5°	5101.4	5147.3	5226.7	5260.3	5275.9	5258.0	5223.4	5195.4	5175.3	5164.1	5160.7
7.5°	5152.9	5217.8	5302.8	5297.2	5261.4	5182.0	5092.5	5025.4	4969.4	4949.3	4938.1
10°	5221.1	5297.2	5356.5	5292.7	5188.7	5051.1	4916.8	4812.8	4728.9	4696.4	4690.9
12.5°	5308.4	5385.6	5396.8	5261.4	5089.1	4901.2	4718.8	4581.2	4455.9	4415.6	4406.7
15°	5421.4	5494.1	5424.7	5206.6	4966.1	4713.2	4477.2	4290.3	4158.3	4109.1	4091.2
17.5°	5540.0	5609.3	5430.3	5116.0	4805.0	4490.6	4194.1	4002.8	3851.8	3794.7	3788.0
20°	5682.0	5713.4	5406.8	4986.2	4583.5	4202.0	3889.8	3709.7	3629.2	3588.9	3584.4
22.5°	5857.7	5824.1	5353.1	4810.6	4302.6	3868.6	3614.6	3530.7	3510.6	3501.6	3505.0
25°	6043.4	5940.5	5273.7	4581.2	3948.0	3535.2	3413.3	3436.7	3463.6	3460.2	3460.2
27.5°	6248.1	6059.1	5151.8	4276.9	3555.3	3262.2	3276.8	3362.9	3403.2	3402.1	3401.0
30°	6511.0	6193.3	4996.3	3911.1	3188.4	3069.8	3158.2	3263.3	3318.2	3315.9	3317.0
32.5°	6834.3	6341.0	4784.8	3502.8	2923.3	2927.7	3029.5	3133.6	3197.3	3191.7	3192.9
35°	7212.5	6506.6	4498.4	3100.0	2747.6	2814.7	2895.3	2968.0	3028.4	3020.6	3012.7
37.5°	7624.2	6668.8	4118.1	2739.8	2604.4	2709.6	2776.7	2789.0	2817.0	2796.8	2782.3
40°	8015.7	6793.0	3628.1	2444.4	2460.1	2620.1	2663.7	2614.5	2564.1	2557.4	2537.3
42.5°	8356.9	6834.3	3132.5	2208.4	2307.9	2526.1	2553.0	2450.0	2359.4	2316.9	2299.0
45°	8717.2	6848.9	2670.4	2010.4	2161.4	2442.2	2471.3	2333.7	2206.1	2114.4	2084.2
47.5°	9188.2	6954.0	2311.3	1863.8	2049.5	2386.3	2427.7	2240.8	2075.3	1944.4	1916.4
50°	9804.6	7162.1	2019.3	1751.9	1976.8	2349.3	2396.3	2150.2	1967.9	1810.1	1782.1
52.5°	10489.2	7353.4	1783.3	1661.3	1906.3	2284.5	2356.1	2085.3	1867.2	1685.9	1655.7
55°	10968.1	7206.9	1593.1	1567.3	1814.6	2191.6	2300.1	2030.5	1722.8	1565.1	1538.3
57.5°	11059.8	6705.7	1448.8	1470.0	1703.8	2075.3	2214.0	1908.6	1644.5	1512.5	1484.6
60°	10809.2	6007.6	1341.4	1380.5	1585.2	1928.7	2052.9	1822.4	1569.6	1456.6	1433.1
62.5°	10179.4	5292.7	1261.9	1300.0	1474.5	1779.9	1952.2	1731.8	1493.5	1392.8	1369.3
65°	8907.4	4443.6	1185.9	1228.4	1371.6	1651.3	1861.6	1647.9	1418.6	1341.4	1319.0
67.5°	6723.6	3328.2	1114.3	1152.3	1279.8	1539.4	1763.1	1565.1	1345.8	1296.6	1269.8
70°	3959.2	2084.2	1032.6	1072.9	1183.6	1423.0	1658.0	1474.5	1255.2	1232.8	1198.2
72.5°	1842.6	1254.1	939.7	978.9	1062.8	1267.5	1522.6	1355.9	1147.8	1098.6	1051.6
75°	1099.7	917.4	830.1	864.8	924.1	1102.0	1352.5	1235.1	1046.0	981.1	931.9
77.5°	822.3	701.4	709.3	746.2	794.3	964.3	1198.2	1140.0	967.7	917.4	883.8
80°	591.8	532.5	578.4	618.7	669.0	877.1	1147.8	1053.8	874.8	807.7	776.4
82.5°	394.9	382.6	435.2	476.6	525.8	767.5	1078.5	923.0	747.3	662.3	592.9
85°	218.2	230.5	293.1	311.0	353.5	540.3	883.8	741.7	562.7	453.1	432.9
87.5°	90.6	106.3	157.7	152.1	187.9	322.2	581.7	447.5	358.0	267.4	208.1
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)