

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: P317811

Luminaire Tested: **GAN-SA7C-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51152 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

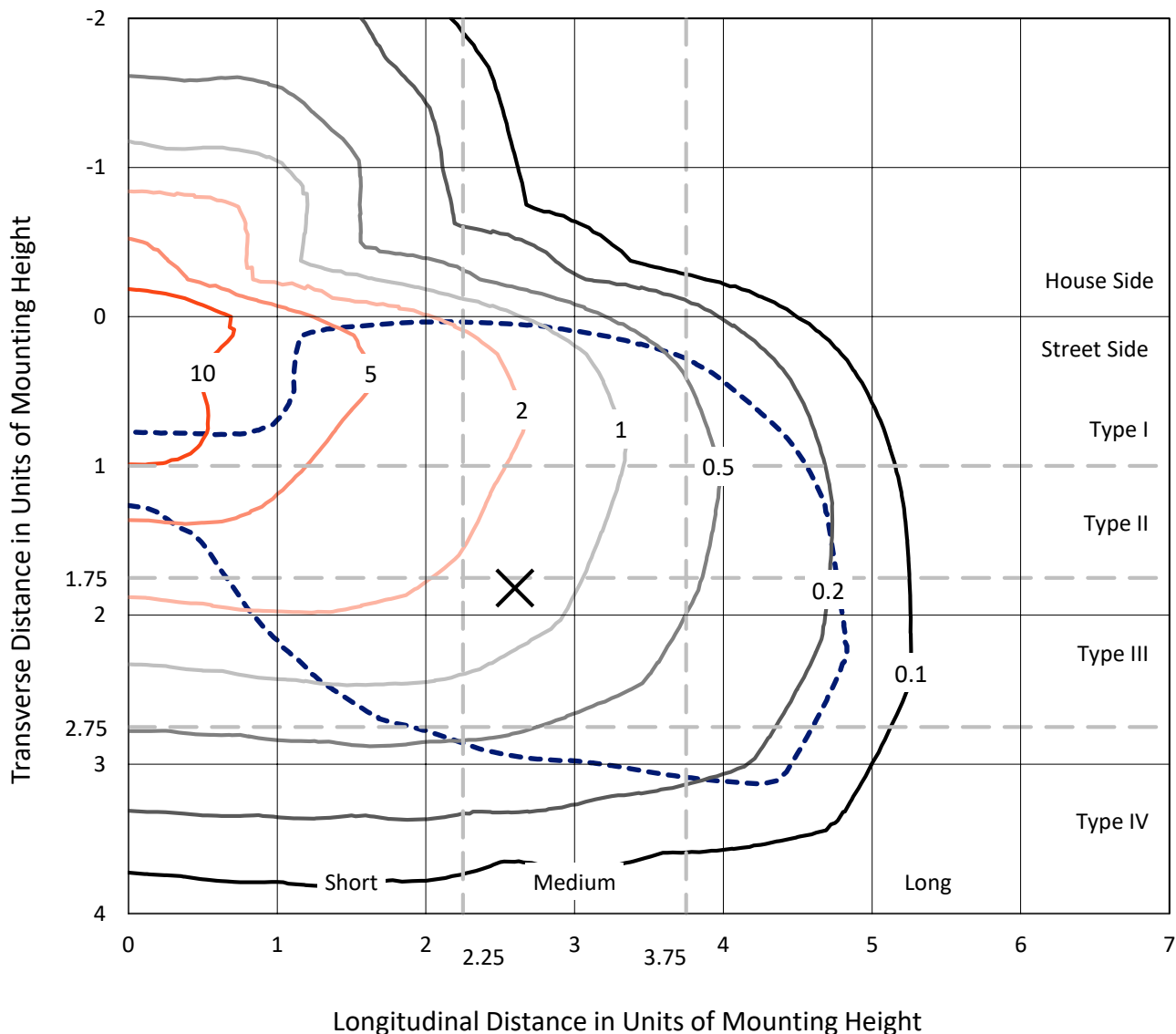
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317811
 CATALOG NUMBER: GAN-SA7C-750-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

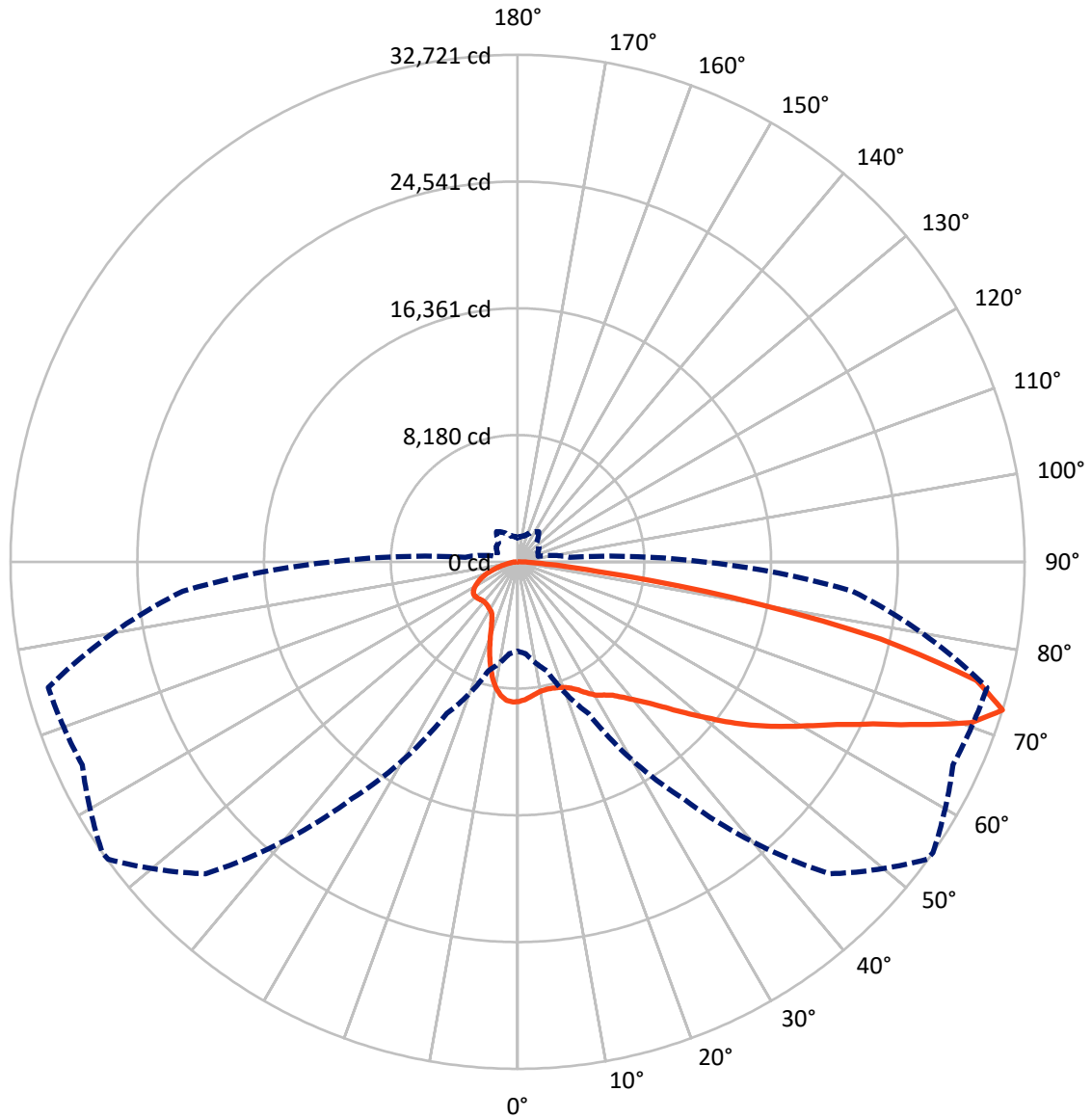
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317811
CATALOG NUMBER: GAN-SA7C-750-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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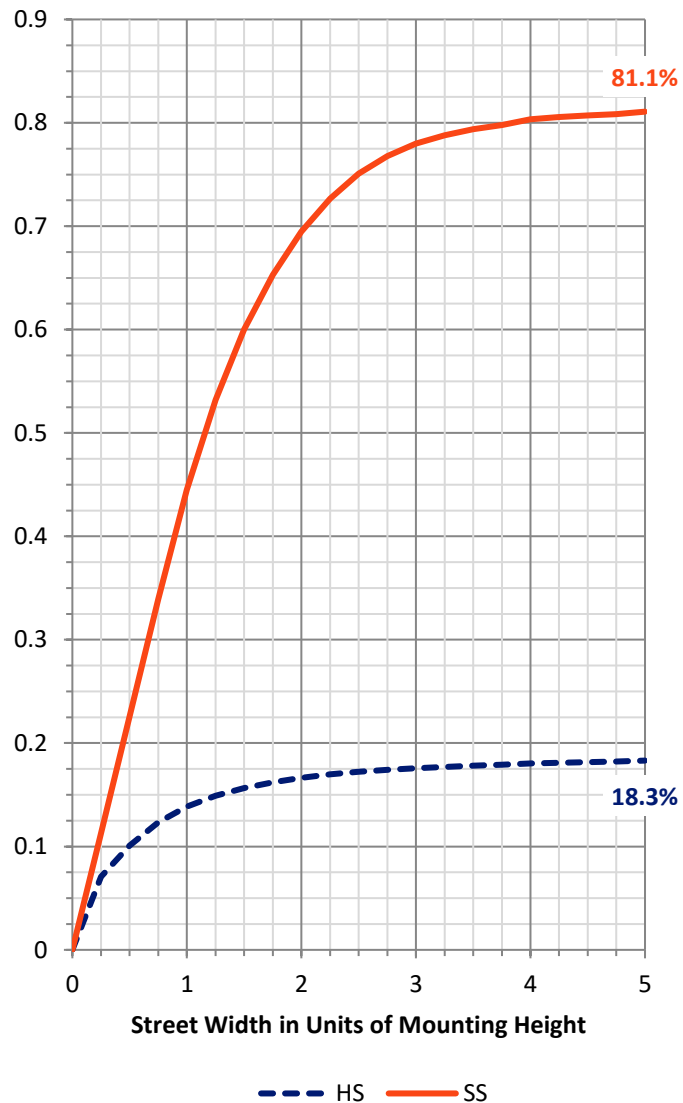
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9507.5	0.0	9507.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41644.5	0.0	41644.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	51152.0	0.0	51152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.4	1.6
10°-20°	2173.5	4.2
20°-30°	3583.6	7.0
30°-40°	5301.1	10.4
40°-50°	7399.2	14.5
50°-60°	9634.0	18.8
60°-70°	11839.9	23.1
70°-80°	9281.1	18.1
80°-90°	1123.1	2.2
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°	51152.0	100.0
0°-180°	51152.0	100.0

Coefficient of Utilization

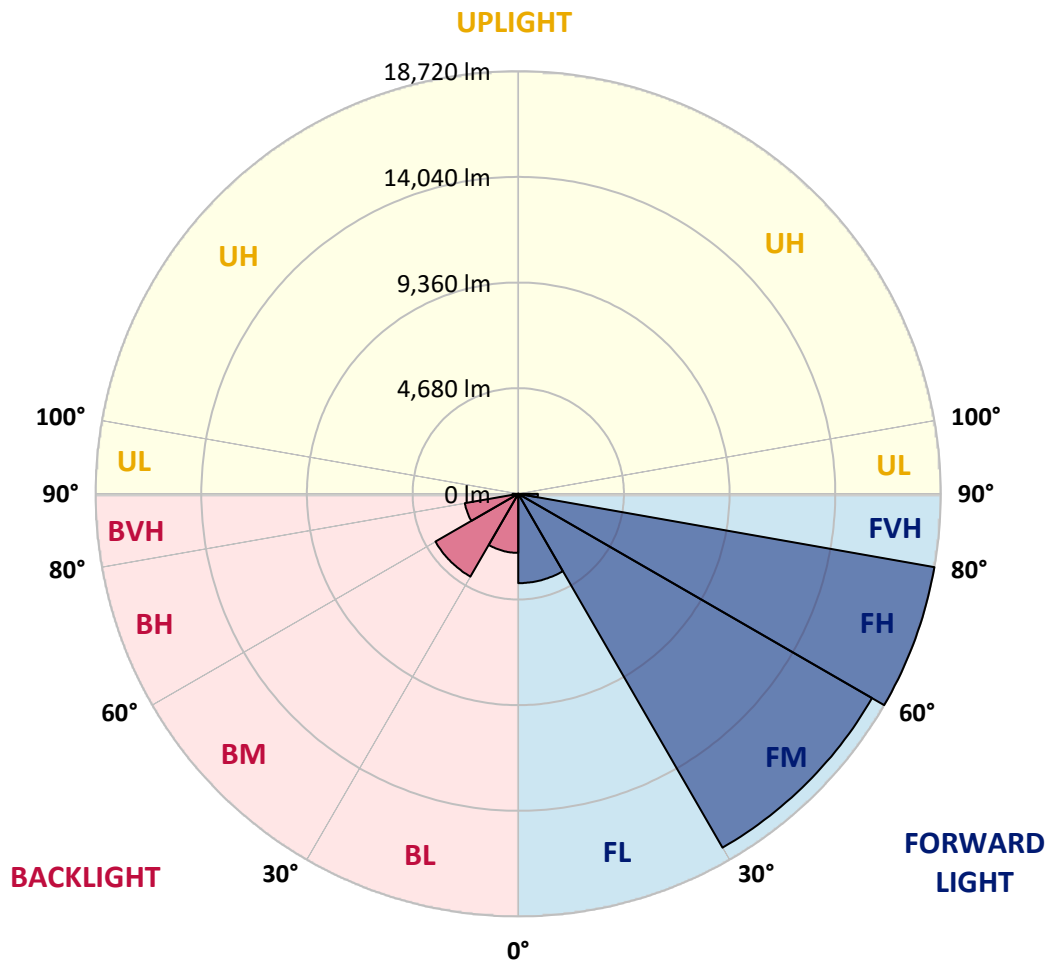


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 CATALOG NUMBER: GAN-SA7C-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3957.7	7.7			
FM (30°-60°)	18098.6	35.4			
FH (60°-80°)	18719.9	36.6			G5
FVH (80°-90°)	868.4	1.7			G5
BL (0°-30°)	2615.9	5.1	B4/5000		
BM (30°-60°)	4235.7	8.3	B3/5000		
BH (60°-80°)	2401.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	254.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CATALOG NUMBER: GAN-SA7C-750-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1
2.5°	8728.4	8707.7	8733.6	8769.9	8809.6	8863.2	8894.3	8908.1	8961.6	8982.4	9027.3
5°	8324.1	8313.8	8356.9	8419.1	8507.3	8631.6	8731.9	8750.9	8892.5	8992.7	9084.3
7.5°	8030.4	8030.4	8080.5	8154.8	8253.3	8420.9	8562.5	8588.5	8828.6	9044.6	9213.9
10°	7797.2	7805.8	7864.5	7952.7	8068.4	8246.4	8434.7	8464.1	8811.3	9165.5	9435.0
12.5°	7641.7	7662.4	7716.0	7795.4	7938.8	8154.8	8393.2	8433.0	8847.6	9338.3	9701.1
15°	7740.1	7774.7	7779.9	7812.7	7892.2	8127.2	8417.4	8458.9	8925.4	9514.5	10003.5
17.5°	8172.1	8184.2	8130.6	8061.5	8023.5	8173.8	8490.0	8533.2	9018.7	9689.0	10293.7
20°	8828.6	8821.7	8705.9	8519.3	8325.8	8350.0	8609.2	8654.1	9144.8	9842.8	10584.0
22.5°	9657.9	9633.7	9455.8	9112.0	8782.0	8643.7	8818.2	8856.3	9334.8	10062.2	10895.0
25°	10663.4	10609.9	10374.9	9913.6	9428.1	9072.2	9132.7	9169.0	9611.3	10307.5	11180.0
27.5°	11724.3	11670.7	11371.8	10813.7	10167.6	9613.0	9566.3	9597.4	9925.7	10488.9	11390.8
30°	12833.4	12776.4	12503.5	11878.0	10952.0	10172.8	9970.6	9982.7	10146.9	10587.4	11563.6
32.5°	13947.8	13894.3	13588.5	12862.8	11803.7	10774.0	10262.6	10247.1	10279.9	10689.4	11758.8
35°	15077.7	15098.5	14740.8	13937.5	12747.1	11442.6	10608.2	10575.3	10502.8	10898.4	12035.2
37.5°	16287.1	16273.3	15810.3	14970.6	13733.6	12168.3	11104.0	11098.8	10848.3	11294.1	12468.9
40°	17095.7	17104.3	16822.7	16028.0	14730.5	12971.7	11739.8	11727.7	11399.4	11886.7	13037.3
42.5°	17411.9	17468.9	17541.5	17037.0	15774.0	13902.9	12498.3	12481.0	12168.3	12736.7	13705.9
45°	17434.3	17548.4	17997.6	17933.7	16831.4	14968.9	13467.5	13419.1	13194.5	13866.6	14504.1
47.5°	17240.8	17358.3	18104.7	18467.5	17776.4	16093.6	14600.9	14562.9	14369.4	15279.9	15368.0
50°	16817.5	16929.9	17883.5	18728.4	18553.9	17175.2	15907.0	15806.8	15703.2	16912.6	16356.2
52.5°	16024.5	16240.5	17588.1	18790.6	19018.7	18135.8	17280.6	17214.9	17271.9	18635.1	17346.2
55°	14146.5	14388.4	16826.2	18738.8	19362.5	18942.6	18654.1	18650.7	18946.1	20442.3	18408.8
57.5°	13094.3	13265.4	15274.7	18650.7	19770.2	19744.3	20013.8	20046.6	20622.0	22410.2	19521.4
60°	12500.0	12679.7	14488.6	18324.1	20402.6	20780.9	21401.2	21466.8	22325.5	24588.8	20860.4
62.5°	11959.2	12156.2	14001.4	17658.9	21147.2	22263.3	23063.2	23122.0	24129.2	26827.9	22154.5
65°	11034.9	11257.8	13287.8	17221.8	21824.5	24196.6	25176.2	25216.0	26200.8	29174.1	23144.4
67.5°	9728.7	9932.6	11941.9	16256.0	22325.5	26544.6	27985.5	28007.9	28255.0	30831.0	23650.6
70°	8203.2	8280.9	10024.2	14262.3	21732.9	28740.5	31064.3	31069.4	30127.8	31891.8	23567.7
72.5°	5763.6	5946.8	7277.1	10796.5	18676.6	28472.7	32662.4	32721.1	30998.6	31356.2	21684.5
75°	3534.9	3728.4	4564.6	6542.8	11848.6	22392.9	30177.9	30585.7	29365.9	27957.8	17714.2
77.5°	2363.5	2436.1	2978.6	3814.8	5368.0	12883.5	23201.4	23968.5	24395.3	20388.7	11328.6
80°	1318.2	1456.5	1974.8	2370.4	2387.7	5119.2	13911.5	14091.2	13572.9	8118.5	3495.2
82.5°	698.0	774.0	1318.2	1392.5	1302.7	1713.9	5184.9	5190.0	4336.6	2176.9	1038.4
85°	540.8	604.7	903.6	850.0	665.2	760.2	1710.4	1803.7	1475.5	891.5	338.6
87.5°	269.5	335.2	613.3	539.0	260.9	217.7	611.6	653.1	582.2	349.0	122.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317811
 CATALOG NUMBER: GAN-SA7C-750-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1	9022.1
2.5°	9044.6	9060.1	9079.1	9058.4	9051.5	9023.8	8977.2	8966.8	8942.6	8944.4	8958.2
5°	9124.0	9150.0	9139.6	9060.1	8965.1	8832.1	8693.8	8576.4	8498.6	8493.4	8488.2
7.5°	9276.1	9293.4	9212.2	8985.8	8719.8	8412.2	8122.0	7868.0	7714.2	7676.2	7667.6
10°	9514.5	9511.1	9288.2	8832.1	8301.7	7752.2	7285.8	6933.3	6727.7	6667.2	6651.7
12.5°	9780.6	9740.8	9314.1	8552.2	7710.8	6948.9	6358.0	5965.8	5751.6	5682.4	5665.2
15°	10055.3	9956.8	9250.2	8134.1	6985.1	6083.3	5463.0	5100.2	4984.4	4946.4	4939.5
17.5°	10311.0	10120.9	9067.0	7567.4	6157.6	5221.1	4737.4	4592.3	4619.9	4670.0	4671.7
20°	10561.5	10231.5	8773.3	6852.1	5285.1	4511.1	4346.9	4454.0	4585.3	4687.3	4701.1
22.5°	10808.6	10309.3	8395.0	6026.3	4504.1	4112.0	4227.7	4422.9	4573.3	4683.8	4702.8
25°	11015.9	10328.3	7873.2	5145.1	3961.6	3961.6	4170.7	4355.6	4504.1	4613.0	4632.0
27.5°	11091.9	10200.4	7137.2	4329.6	3688.7	3892.5	4091.2	4245.0	4371.1	4486.9	4507.6
30°	11121.3	9963.7	6287.1	3674.8	3576.4	3818.2	3984.1	4115.4	4234.6	4343.5	4362.5
32.5°	11126.5	9678.6	5385.3	3303.4	3498.6	3740.5	3851.1	3966.8	4094.7	4137.9	4144.8
35°	11159.3	9341.7	4435.0	3113.3	3426.1	3667.9	3756.0	3839.0	3631.7	3647.2	3661.0
37.5°	11254.3	9008.3	3640.3	3006.2	3379.4	3629.9	3735.3	3434.7	3272.3	3234.3	3229.1
40°	11432.3	8652.4	3051.1	2919.8	3362.1	3648.9	3602.3	3206.6	2926.7	2717.7	2686.6
42.5°	11679.3	8268.8	2674.5	2862.8	3374.2	3740.5	3417.4	2987.2	2522.5	2387.7	2370.4
45°	11957.5	7866.3	2470.6	2823.1	3415.7	3811.3	3379.4	2695.2	2334.1	2232.2	2223.6
47.5°	12227.0	7373.9	2365.2	2805.8	3472.7	3754.3	3218.7	2605.4	2244.3	2190.7	2195.9
50°	12536.3	6929.9	2301.3	2786.8	3522.8	3718.0	3037.3	2558.7	2209.7	2275.4	2344.5
52.5°	12797.2	6470.3	2244.3	2748.8	3541.8	3654.1	2990.7	2567.4	2209.7	2335.9	2401.5
55°	13106.4	6123.0	2178.6	2669.3	3505.5	3472.7	2957.8	2619.2	2235.7	2156.2	2163.1
57.5°	13505.5	6009.0	2106.1	2544.9	3384.6	3208.4	2942.3	2669.3	2220.1	2170.0	2187.3
60°	14058.4	6129.9	2076.7	2382.5	3196.3	3001.0	2944.0	2643.4	2111.3	2024.9	2026.6
62.5°	14585.3	6264.7	2075.0	2280.6	2964.8	2816.2	2904.3	2558.7	2056.0	2005.9	2024.9
65°	14758.1	6128.2	1992.1	2166.6	2703.9	2595.0	2831.7	2468.9	2014.5	1938.5	1935.0
67.5°	14526.6	5704.9	1824.5	1981.7	2405.0	2337.6	2736.7	2361.8	1948.9	1886.7	1876.3
70°	13839.0	4759.8	1617.1	1738.1	2064.6	2047.3	2586.4	2237.4	1860.7	1807.2	1762.3
72.5°	11988.6	3391.5	1363.2	1446.1	1681.1	1736.4	2379.1	2075.0	1736.4	1620.6	1551.5
75°	9846.2	2510.4	1119.6	1136.8	1276.8	1427.1	2094.0	1884.9	1589.5	1392.5	1339.0
77.5°	6029.7	1535.9	891.5	898.4	915.7	1138.6	1724.3	1672.4	1402.9	1161.0	1123.0
80°	1952.3	837.9	644.4	677.3	625.4	834.5	1333.8	1423.6	1204.2	971.0	929.5
82.5°	742.9	488.9	435.4	457.8	433.7	559.8	972.7	1140.3	986.5	798.2	649.6
85°	359.4	276.4	257.4	288.5	267.8	286.8	622.0	839.7	748.1	520.0	483.8
87.5°	127.9	122.7	98.5	133.0	114.0	101.9	190.0	423.3	494.1	357.6	319.6
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)