

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: P317729

Luminaire Tested: **GAN-SA5C-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317729
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-SA5C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 32917 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

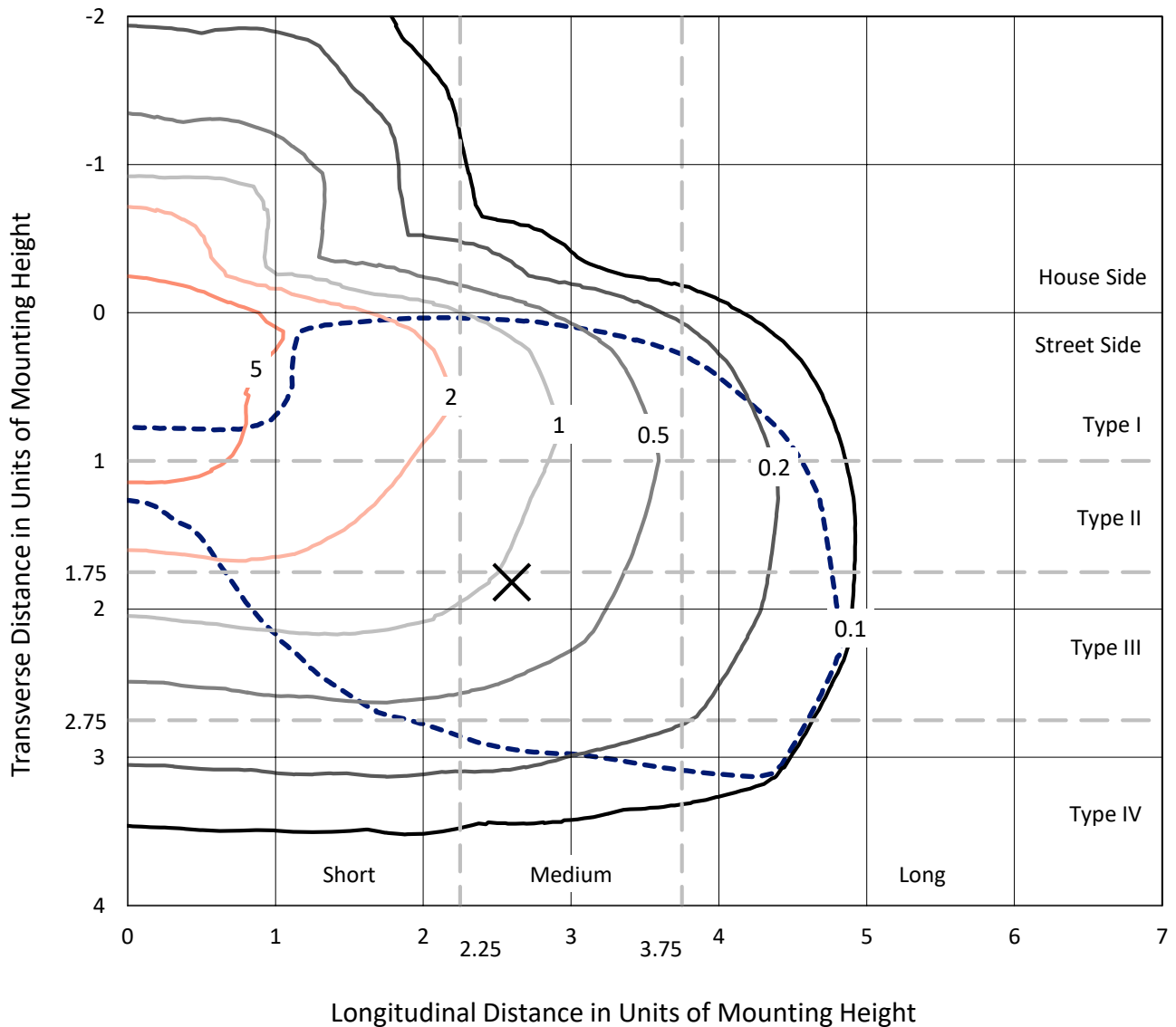
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

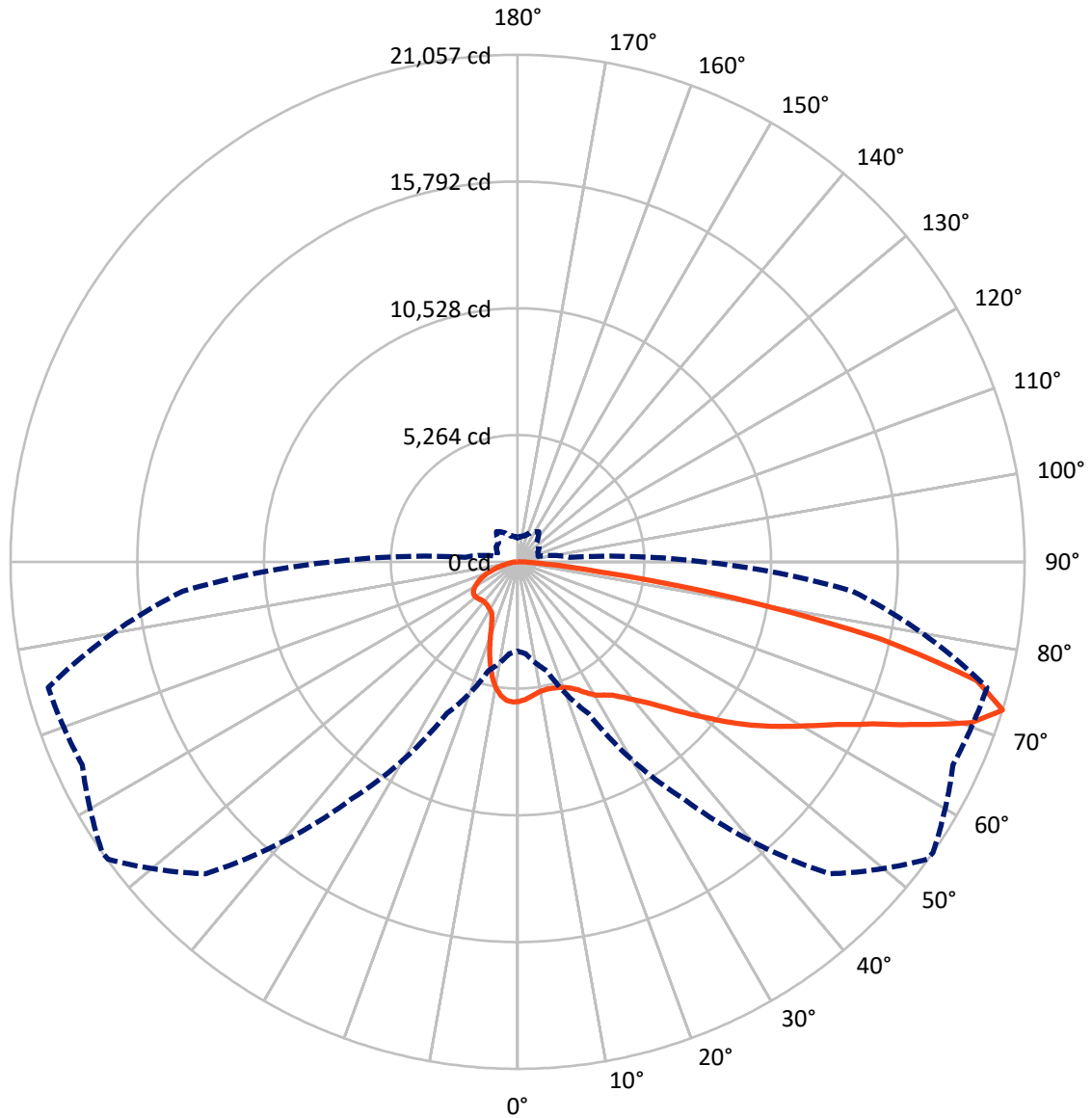
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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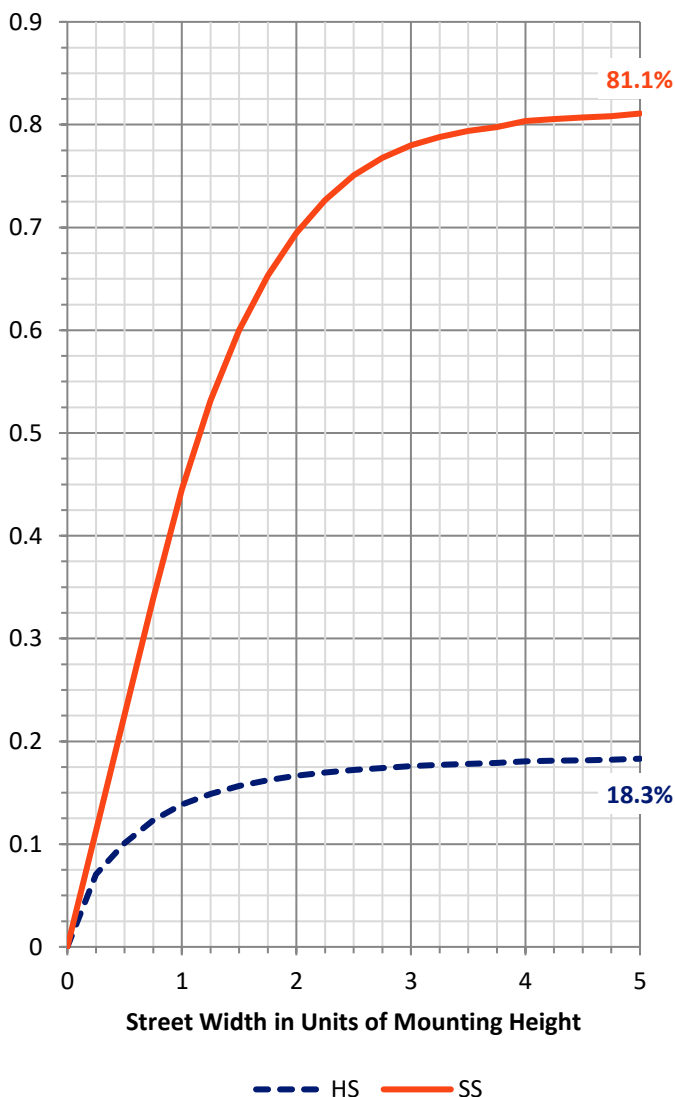
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6118.2	0.0	6118.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26798.8	0.0	26798.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	32917.0	0.0	32917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.6
10°-20°	1398.7	4.2
20°-30°	2306.1	7.0
30°-40°	3411.3	10.4
40°-50°	4761.5	14.5
50°-60°	6199.6	18.8
60°-70°	7619.1	23.1
70°-80°	5972.5	18.1
80°-90°	722.8	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°	32917.0	100.0
0°-180°	32917.0	100.0

Coefficient of Utilization



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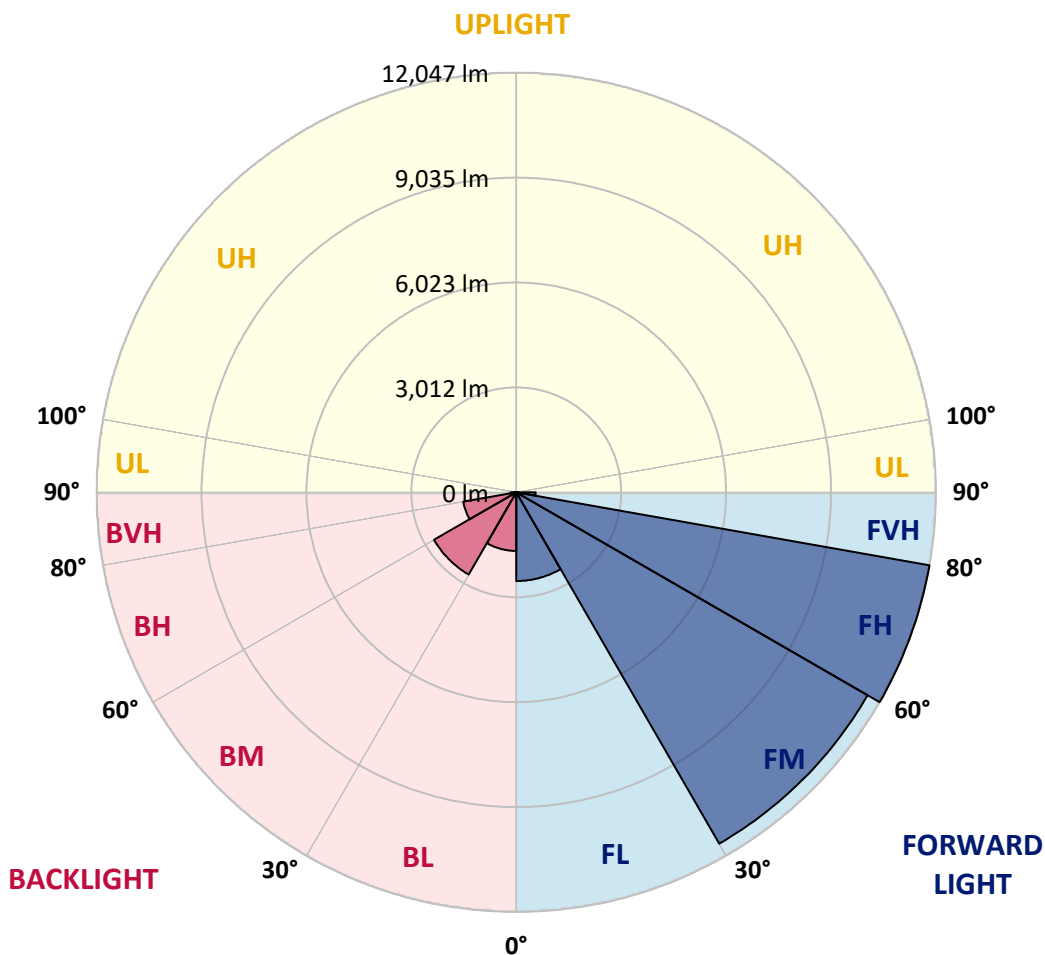
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2546.8	7.7			
FM (30°-60°)	11646.7	35.4			
FH (60°-80°)	12046.5	36.6			G5
FVH (80°-90°)	558.8	1.7			G4/750
BL (0°-30°)	1683.4	5.1	B3/2500		
BM (30°-60°)	2725.7	8.3	B3/5000		
BH (60°-80°)	1545.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	164.0	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9
2.5°	5616.8	5603.5	5620.2	5643.5	5669.1	5703.6	5723.6	5732.5	5766.9	5780.3	5809.2
5°	5356.7	5350.0	5377.8	5417.8	5474.5	5554.6	5619.1	5631.3	5722.5	5786.9	5845.9
7.5°	5167.7	5167.7	5199.9	5247.7	5311.1	5418.9	5510.1	5526.8	5681.3	5820.3	5929.3
10°	5017.6	5023.1	5060.9	5117.6	5192.1	5306.6	5427.8	5446.7	5670.2	5898.1	6071.6
12.5°	4917.5	4930.9	4965.3	5016.5	5108.7	5247.7	5401.2	5426.7	5693.6	6009.3	6242.8
15°	4980.9	5003.1	5006.5	5027.6	5078.7	5229.9	5416.7	5443.4	5743.6	6122.7	6437.4
17.5°	5258.8	5266.6	5232.2	5187.7	5163.2	5260.0	5463.4	5491.2	5803.6	6235.0	6624.1
20°	5681.3	5676.9	5602.4	5482.3	5357.8	5373.4	5540.1	5569.0	5884.8	6334.0	6810.9
22.5°	6215.0	6199.4	6084.9	5863.7	5651.3	5562.4	5674.7	5699.1	6007.1	6475.2	7011.0
25°	6862.1	6827.6	6676.4	6379.5	6067.1	5838.1	5877.0	5900.4	6185.0	6633.0	7194.5
27.5°	7544.7	7510.2	7317.9	6958.8	6543.0	6186.1	6156.1	6176.1	6387.3	6749.8	7330.1
30°	8258.5	8221.8	8046.1	7643.7	7047.7	6546.3	6416.2	6424.0	6529.6	6813.1	7441.3
32.5°	8975.6	8941.1	8744.4	8277.4	7595.9	6933.2	6604.1	6594.1	6615.2	6878.7	7567.0
35°	9702.7	9716.1	9485.9	8968.9	8202.9	7363.5	6826.5	6805.4	6758.7	7013.3	7744.8
37.5°	10481.0	10472.1	10174.1	9633.8	8837.7	7830.4	7145.6	7142.2	6981.0	7267.9	8023.9
40°	11001.3	11006.9	10825.7	10314.2	9479.3	8347.4	7554.7	7546.9	7335.7	7649.2	8389.7
42.5°	11204.8	11241.5	11288.2	10963.5	10150.8	8946.7	8042.8	8031.7	7830.4	8196.2	8820.0
45°	11219.2	11292.6	11581.7	11540.5	10831.2	9632.7	8666.5	8635.4	8490.9	8923.4	9333.6
47.5°	11094.7	11170.3	11650.6	11884.1	11439.4	10356.5	9395.9	9371.4	9246.9	9832.8	9889.5
50°	10822.3	10894.6	11508.3	12052.0	11939.7	11052.5	10236.4	10171.9	10105.2	10883.5	10525.5
52.5°	10312.0	10451.0	11318.2	12092.0	12238.8	11670.6	11120.3	11078.0	11114.7	11991.9	11162.5
55°	9103.5	9259.1	10827.9	12058.6	12460.0	12189.8	12004.2	12001.9	12192.1	13154.9	11846.3
57.5°	8426.4	8536.4	9829.5	12001.9	12722.4	12705.7	12879.2	12900.3	13270.5	14421.2	12562.3
60°	8043.9	8159.5	9323.6	11791.8	13129.3	13372.8	13771.9	13814.2	14366.8	15823.2	13423.9
62.5°	7695.9	7822.7	9010.1	11363.8	13608.5	14326.7	14841.5	14879.3	15527.5	17264.1	14256.7
65°	7101.1	7244.5	8550.9	11082.5	14044.3	15570.8	16201.2	16226.8	16860.5	18774.0	14893.8
67.5°	6260.6	6391.8	7684.8	10461.0	14366.8	17081.8	18009.0	18023.5	18182.5	19840.2	15219.5
70°	5278.9	5328.9	6450.7	9178.0	13985.4	18494.9	19990.3	19993.6	19387.7	20522.8	15166.1
72.5°	3709.0	3826.8	4682.9	6947.7	12018.6	18322.6	21018.7	21056.5	19948.0	20178.2	13954.3
75°	2274.8	2399.3	2937.4	4210.4	7624.8	14410.1	19419.9	19682.3	18897.4	17991.2	11399.3
77.5°	1521.0	1567.6	1916.8	2454.9	3454.4	8290.7	14930.4	15424.1	15698.7	13120.4	7290.1
80°	848.3	937.3	1270.8	1525.4	1536.5	3294.3	8952.3	9067.9	8734.3	5224.4	2249.2
82.5°	449.2	498.1	848.3	896.1	838.3	1102.9	3336.5	3339.9	2790.6	1400.9	668.2
85°	348.0	389.1	581.5	547.0	428.0	489.2	1100.7	1160.7	949.5	573.7	217.9
87.5°	173.4	215.7	394.7	346.9	167.9	140.1	393.6	420.3	374.7	224.6	78.9
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°	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9	5805.9
2.5°	5820.3	5830.3	5842.5	5829.2	5824.8	5807.0	5776.9	5770.3	5754.7	5755.8	5764.7
5°	5871.4	5888.1	5881.5	5830.3	5769.2	5683.6	5594.6	5519.0	5469.0	5465.6	5462.3
7.5°	5969.3	5980.4	5928.1	5782.5	5611.3	5413.4	5226.6	5063.2	4964.2	4939.8	4934.2
10°	6122.7	6120.5	5977.1	5683.6	5342.2	4988.7	4688.5	4461.7	4329.4	4290.5	4280.5
12.5°	6293.9	6268.4	5993.7	5503.4	4962.0	4471.7	4091.4	3839.1	3701.2	3656.7	3645.6
15°	6470.7	6407.3	5952.6	5234.4	4495.0	3914.7	3515.5	3282.1	3207.6	3183.1	3178.7
17.5°	6635.3	6513.0	5834.8	4869.7	3962.5	3359.9	3048.6	2955.2	2973.0	3005.2	3006.3
20°	6796.5	6584.1	5645.8	4409.4	3401.0	2902.9	2797.3	2866.2	2950.7	3016.3	3025.2
22.5°	6955.5	6634.1	5402.3	3878.0	2898.5	2646.1	2720.6	2846.2	2943.0	3014.1	3026.3
25°	7088.9	6646.4	5066.5	3311.0	2549.4	2549.4	2683.9	2802.9	2898.5	2968.5	2980.8
27.5°	7137.8	6564.1	4592.9	2786.2	2373.7	2504.9	2632.8	2731.7	2812.9	2887.4	2900.7
30°	7156.7	6411.8	4045.9	2364.8	2301.4	2457.1	2563.8	2648.3	2725.0	2795.1	2807.3
32.5°	7160.0	6228.3	3465.5	2125.8	2251.4	2407.1	2478.2	2552.7	2635.0	2662.8	2667.2
35°	7181.2	6011.5	2854.0	2003.5	2204.7	2360.4	2417.1	2470.4	2337.0	2347.0	2355.9
37.5°	7242.3	5797.0	2342.6	1934.5	2174.7	2335.9	2403.7	2210.3	2105.8	2081.3	2078.0
40°	7356.8	5567.9	1963.4	1879.0	2163.6	2348.1	2318.1	2063.5	1883.4	1748.9	1728.9
42.5°	7515.8	5321.1	1721.1	1842.3	2171.4	2407.1	2199.2	1922.3	1623.2	1536.5	1525.4
45°	7694.8	5062.1	1589.9	1816.7	2198.0	2452.6	2174.7	1734.4	1502.0	1436.5	1430.9
47.5°	7868.3	4745.2	1522.1	1805.6	2234.7	2416.0	2071.3	1676.6	1444.2	1409.8	1413.1
50°	8067.3	4459.5	1480.9	1793.3	2267.0	2392.6	1954.6	1646.6	1422.0	1464.2	1508.7
52.5°	8235.1	4163.7	1444.2	1768.9	2279.2	2351.5	1924.5	1652.1	1422.0	1503.2	1545.4
55°	8434.2	3940.2	1402.0	1717.7	2255.9	2234.7	1903.4	1685.5	1438.7	1387.5	1392.0
57.5°	8691.0	3866.9	1355.3	1637.7	2178.0	2064.6	1893.4	1717.7	1428.7	1396.4	1407.5
60°	9046.8	3944.7	1336.4	1533.2	2056.8	1931.2	1894.5	1701.1	1358.6	1303.0	1304.1
62.5°	9385.9	4031.4	1335.3	1467.6	1907.9	1812.2	1868.9	1646.6	1323.0	1290.8	1303.0
65°	9497.0	3943.6	1281.9	1394.2	1740.0	1669.9	1822.2	1588.8	1296.4	1247.4	1245.2
67.5°	9348.1	3671.2	1174.1	1275.2	1547.6	1504.3	1761.1	1519.8	1254.1	1214.1	1207.4
70°	8905.6	3063.0	1040.7	1118.5	1328.6	1317.5	1664.4	1439.8	1197.4	1162.9	1134.0
72.5°	7714.8	2182.5	877.2	930.6	1081.8	1117.4	1531.0	1335.3	1117.4	1042.9	998.4
75°	6336.2	1615.5	720.5	731.6	821.6	918.4	1347.5	1213.0	1022.9	896.1	861.6
77.5°	3880.2	988.4	573.7	578.1	589.3	732.7	1109.6	1076.2	902.8	747.1	722.7
80°	1256.3	539.2	414.7	435.8	402.5	537.0	858.3	916.1	774.9	624.8	598.2
82.5°	478.1	314.6	280.2	294.6	279.1	360.2	625.9	733.8	634.8	513.7	418.0
85°	231.3	177.9	165.7	185.7	172.3	184.6	400.3	540.3	481.4	334.7	311.3
87.5°	82.3	78.9	63.4	85.6	73.4	65.6	122.3	272.4	318.0	230.1	205.7
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)