

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: P317790

Luminaire Tested: **GAN-SA6A-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317790
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-SA6A-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28497 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

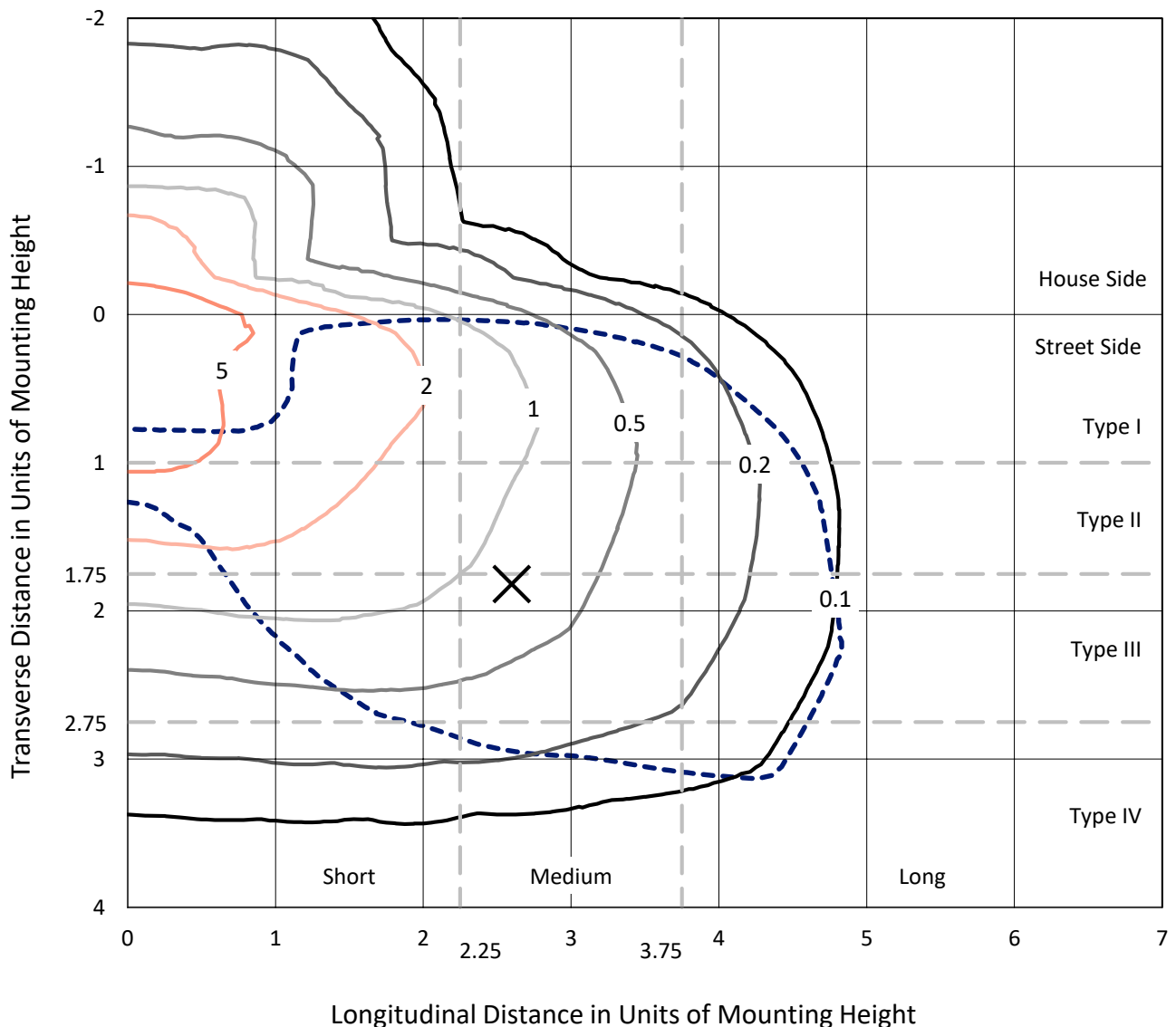
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

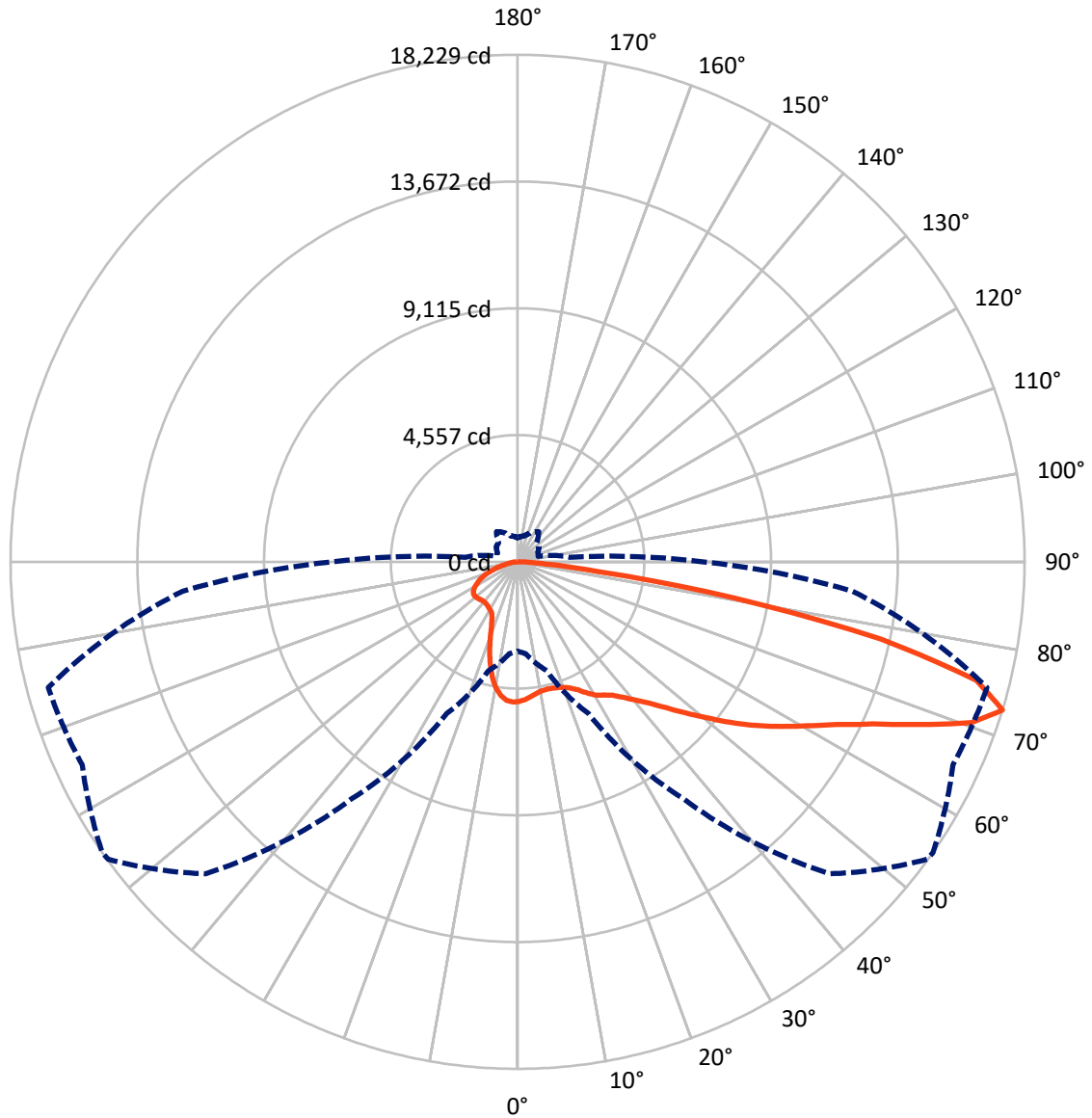
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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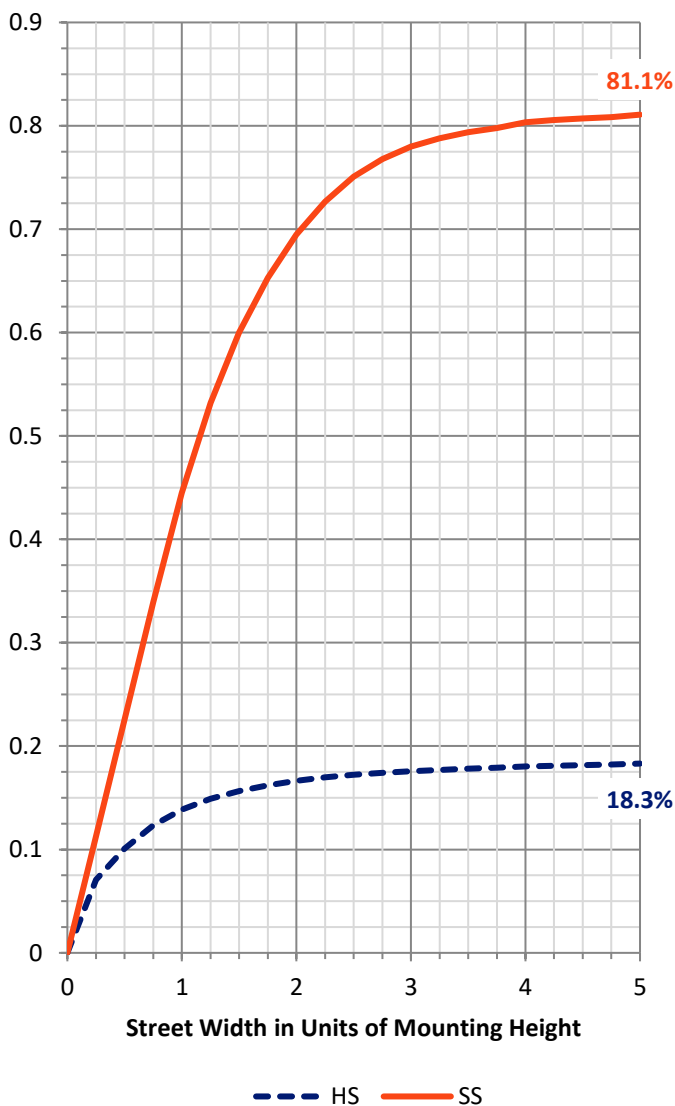
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5296.7	0.0	5296.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23200.3	0.0	23200.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	28497.0	0.0	28497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.8	1.6
10°-20°	1210.9	4.2
20°-30°	1996.5	7.0
30°-40°	2953.3	10.4
40°-50°	4122.1	14.5
50°-60°	5367.1	18.8
60°-70°	6596.1	23.1
70°-80°	5170.5	18.1
80°-90°	625.7	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°	28497.0	100.0
0°-180°	28497.0	100.0

Coefficient of Utilization

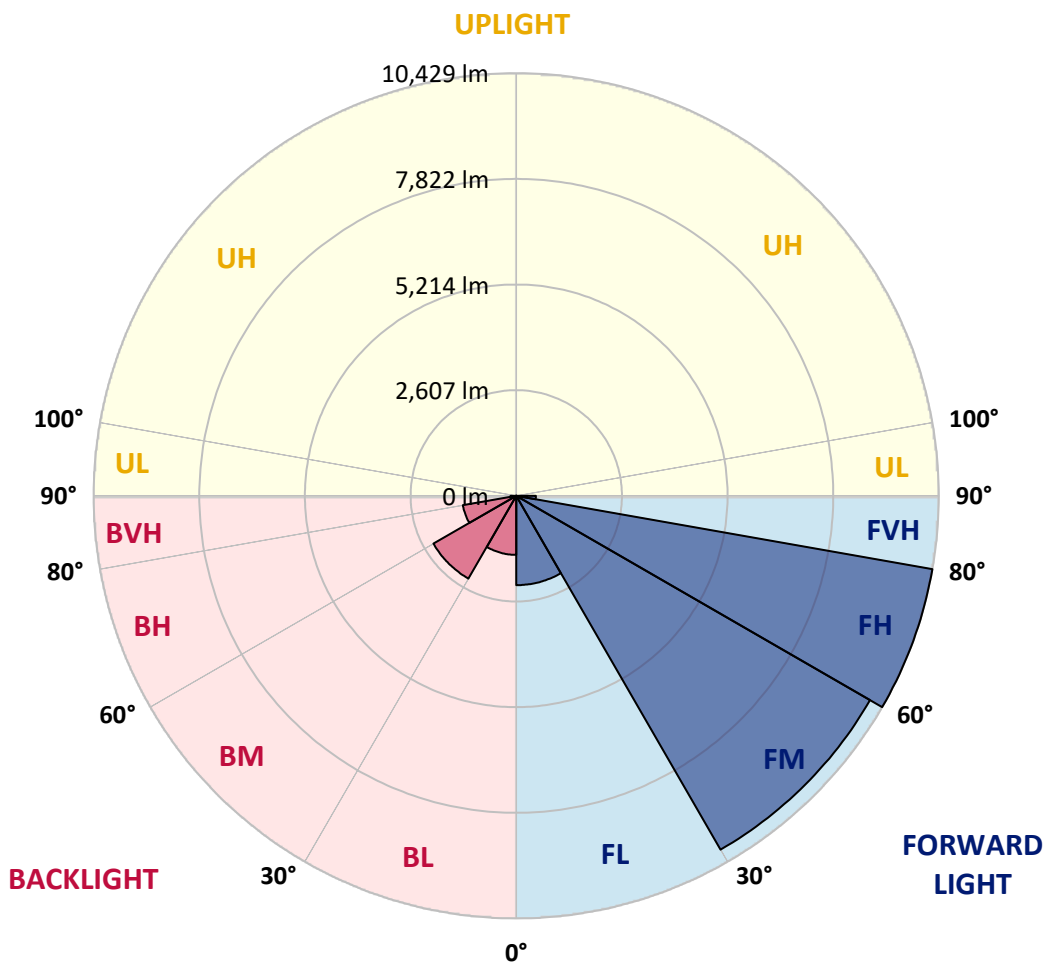


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.8	7.7			
FM (30°-60°)	10082.8	35.4			
FH (60°-80°)	10428.9	36.6			G4/12000
FVH (80°-90°)	483.8	1.7			G3/500
BL (0°-30°)	1457.3	5.1	B3/2500		
BM (30°-60°)	2359.7	8.3	B2/2500		
BH (60°-80°)	1337.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	141.9	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3
2.5°	4862.6	4851.1	4865.5	4885.7	4907.9	4937.7	4955.0	4962.7	4992.6	5004.1	5029.1
5°	4637.4	4631.6	4655.7	4690.3	4739.4	4808.7	4864.6	4875.1	4954.1	5009.9	5060.9
7.5°	4473.8	4473.8	4501.7	4543.1	4597.9	4691.3	4770.2	4784.7	4918.5	5038.8	5133.1
10°	4343.8	4348.6	4381.4	4430.5	4494.9	4594.1	4699.0	4715.4	4908.8	5106.1	5256.3
12.5°	4257.2	4268.8	4298.6	4342.9	4422.8	4543.1	4675.9	4698.0	4929.0	5202.4	5404.5
15°	4312.1	4331.3	4334.2	4352.5	4396.8	4527.7	4689.4	4712.5	4972.4	5300.6	5573.0
17.5°	4552.7	4559.4	4529.6	4491.1	4469.9	4553.7	4729.8	4753.9	5024.3	5397.8	5734.7
20°	4918.5	4914.6	4850.1	4746.2	4638.4	4651.8	4796.2	4821.2	5094.6	5483.5	5896.4
22.5°	5380.5	5367.0	5267.8	5076.3	4892.5	4815.5	4912.7	4933.9	5200.5	5605.7	6069.6
25°	5940.6	5910.8	5779.9	5522.9	5252.4	5054.2	5087.9	5108.1	5354.5	5742.4	6228.4
27.5°	6531.6	6501.8	6335.3	6024.4	5664.4	5355.4	5329.5	5346.8	5529.7	5843.4	6345.9
30°	7149.6	7117.8	6965.7	6617.3	6101.4	5667.3	5554.7	5561.4	5652.9	5898.3	6442.1
32.5°	7770.4	7740.6	7570.2	7165.9	6575.9	6002.2	5717.3	5708.7	5727.0	5955.1	6550.9
35°	8399.9	8411.4	8212.2	7764.6	7101.4	6374.7	5909.8	5891.6	5851.1	6071.5	6704.9
37.5°	9073.6	9065.9	8808.0	8340.2	7651.0	6779.0	6186.1	6183.2	6043.6	6292.0	6946.5
40°	9524.1	9528.9	9372.0	8929.3	8206.4	7226.6	6540.3	6533.6	6350.7	6622.1	7263.1
42.5°	9700.2	9732.0	9772.4	9491.4	8787.8	7745.4	6962.8	6953.2	6779.0	7095.7	7635.6
45°	9712.7	9776.3	10026.5	9990.9	9376.8	8339.2	7502.8	7475.9	7350.7	7725.2	8080.3
47.5°	9604.9	9670.4	10086.2	10288.3	9903.3	8965.8	8134.2	8113.0	8005.2	8512.5	8561.6
50°	9369.1	9431.7	9963.0	10433.7	10336.5	9568.4	8861.9	8806.1	8748.3	9422.1	9112.1
52.5°	8927.3	9047.6	9798.4	10468.3	10595.4	10103.5	9627.1	9590.5	9622.3	10381.7	9663.7
55°	7881.1	8015.8	9373.9	10439.4	10786.9	10553.0	10392.3	10390.4	10554.9	11388.5	10255.6
57.5°	7294.9	7390.2	8509.6	10390.4	11014.1	10999.6	11149.8	11168.1	11488.6	12484.8	10875.5
60°	6963.8	7063.9	8071.7	10208.4	11366.3	11577.1	11922.7	11959.3	12437.6	13698.5	11621.4
62.5°	6662.5	6772.3	7800.2	9837.9	11781.2	12403.0	12848.6	12881.3	13442.5	14945.9	12342.3
65°	6147.6	6271.8	7402.7	9594.4	12158.5	13480.0	14025.8	14047.9	14596.6	16253.0	12893.9
67.5°	5419.9	5533.5	6652.9	9056.3	12437.6	14788.1	15590.8	15603.3	15741.0	17176.1	13175.9
70°	4570.0	4613.3	5584.5	7945.6	12107.5	16011.5	17306.0	17308.9	16784.4	17767.1	13129.7
72.5°	3211.0	3313.0	4054.1	6014.8	10404.8	15862.3	18196.4	18229.1	17269.5	17468.7	12080.5
75°	1969.3	2077.1	2543.0	3645.0	6600.9	12475.2	16812.3	17039.4	16359.9	15575.4	9868.7
77.5°	1316.7	1357.1	1659.4	2125.2	2990.5	7177.5	12925.6	13353.0	13590.7	11358.6	6311.2
80°	734.4	811.4	1100.2	1320.6	1330.2	2851.9	7750.2	7850.3	7561.5	4522.9	1947.2
82.5°	388.9	431.2	734.4	775.8	725.7	954.8	2888.5	2891.4	2415.9	1212.8	578.5
85°	301.3	336.9	503.4	473.6	370.6	423.5	952.9	1004.9	822.0	496.7	188.7
87.5°	150.2	186.7	341.7	300.3	145.3	121.3	340.7	363.8	324.4	194.4	68.3
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°	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3	5026.3
2.5°	5038.8	5047.4	5058.0	5046.5	5042.6	5027.2	5001.2	4995.5	4982.0	4982.9	4990.6
5°	5083.0	5097.5	5091.7	5047.4	4994.5	4920.4	4843.4	4777.9	4734.6	4731.7	4728.8
7.5°	5167.7	5177.4	5132.1	5006.0	4857.8	4686.5	4524.8	4383.3	4297.6	4276.5	4271.6
10°	5300.6	5298.6	5174.5	4920.4	4624.9	4318.8	4058.9	3862.6	3748.0	3714.3	3705.7
12.5°	5448.8	5426.7	5188.9	4764.5	4295.7	3871.2	3542.1	3323.6	3204.2	3165.7	3156.1
15°	5601.8	5547.0	5153.3	4531.5	3891.5	3389.0	3043.5	2841.3	2776.9	2755.7	2751.8
17.5°	5744.3	5638.4	5051.3	4215.8	3430.4	2908.7	2639.2	2558.4	2573.8	2601.7	2602.6
20°	5883.9	5700.0	4887.7	3817.3	2944.3	2513.1	2421.7	2481.4	2554.5	2611.3	2619.0
22.5°	6021.5	5743.3	4676.9	3357.3	2509.3	2290.8	2355.3	2464.0	2547.8	2609.4	2620.0
25°	6137.0	5753.9	4386.2	2866.4	2207.0	2207.0	2323.5	2426.5	2509.3	2569.9	2580.5
27.5°	6179.4	5682.7	3976.2	2412.1	2055.0	2168.5	2279.2	2364.9	2435.2	2499.7	2511.2
30°	6195.7	5550.8	3502.6	2047.3	1992.4	2127.2	2219.6	2292.7	2359.1	2419.8	2430.4
32.5°	6198.6	5392.0	3000.2	1840.3	1949.1	2083.8	2145.4	2209.9	2281.2	2305.2	2309.1
35°	6216.9	5204.3	2470.8	1734.5	1908.7	2043.4	2092.5	2138.7	2023.2	2031.9	2039.6
37.5°	6269.8	5018.6	2028.0	1674.8	1882.7	2022.2	2081.0	1913.5	1823.0	1801.8	1798.9
40°	6369.0	4820.3	1699.8	1626.7	1873.1	2032.8	2006.8	1786.4	1630.5	1514.0	1496.7
42.5°	6506.6	4606.6	1490.0	1594.9	1879.8	2083.8	1903.9	1664.2	1405.3	1330.2	1320.6
45°	6661.6	4382.3	1376.4	1572.8	1902.9	2123.3	1882.7	1501.5	1300.4	1243.6	1238.8
47.5°	6811.7	4108.0	1317.7	1563.1	1934.7	2091.5	1793.2	1451.5	1250.3	1220.5	1223.4
50°	6984.0	3860.7	1282.1	1552.5	1962.6	2071.3	1692.1	1425.5	1231.1	1267.6	1306.1
52.5°	7129.4	3604.6	1250.3	1531.4	1973.2	2035.7	1666.1	1430.3	1231.1	1301.3	1337.9
55°	7301.6	3411.2	1213.7	1487.1	1952.9	1934.7	1647.8	1459.2	1245.5	1201.2	1205.1
57.5°	7524.0	3347.6	1173.3	1417.8	1885.6	1787.4	1639.2	1487.1	1236.8	1208.9	1218.5
60°	7832.0	3415.0	1156.9	1327.3	1780.7	1671.9	1640.1	1472.6	1176.2	1128.1	1129.0
62.5°	8125.6	3490.1	1156.0	1270.5	1651.7	1568.9	1618.0	1425.5	1145.4	1117.5	1128.1
65°	8221.8	3414.0	1109.8	1207.0	1506.3	1445.7	1577.6	1375.4	1122.3	1079.9	1078.0
67.5°	8092.8	3178.2	1016.4	1104.0	1339.8	1302.3	1524.6	1315.8	1085.7	1051.1	1045.3
70°	7709.8	2651.7	900.9	968.3	1150.2	1140.6	1440.9	1246.5	1036.6	1006.8	981.8
72.5°	6678.9	1889.4	759.4	805.6	936.5	967.3	1325.4	1156.0	967.3	902.8	864.3
75°	5485.4	1398.5	623.7	633.3	711.3	795.0	1166.6	1050.1	885.5	775.8	745.9
77.5°	3359.2	855.7	496.7	500.5	510.1	634.3	960.6	931.7	781.6	646.8	625.6
80°	1087.6	466.8	359.0	377.3	348.4	464.9	743.1	793.1	670.9	540.9	517.8
82.5°	413.9	272.4	242.6	255.1	241.6	311.9	541.9	635.3	549.6	444.7	361.9
85°	200.2	154.0	143.4	160.7	149.2	159.8	346.5	467.8	416.8	289.7	269.5
87.5°	71.2	68.3	54.9	74.1	63.5	56.8	105.9	235.8	275.3	199.2	178.1
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)