

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: P318392

Luminaire Tested: **GAN-SA8A-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318392
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-SA8A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37358 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

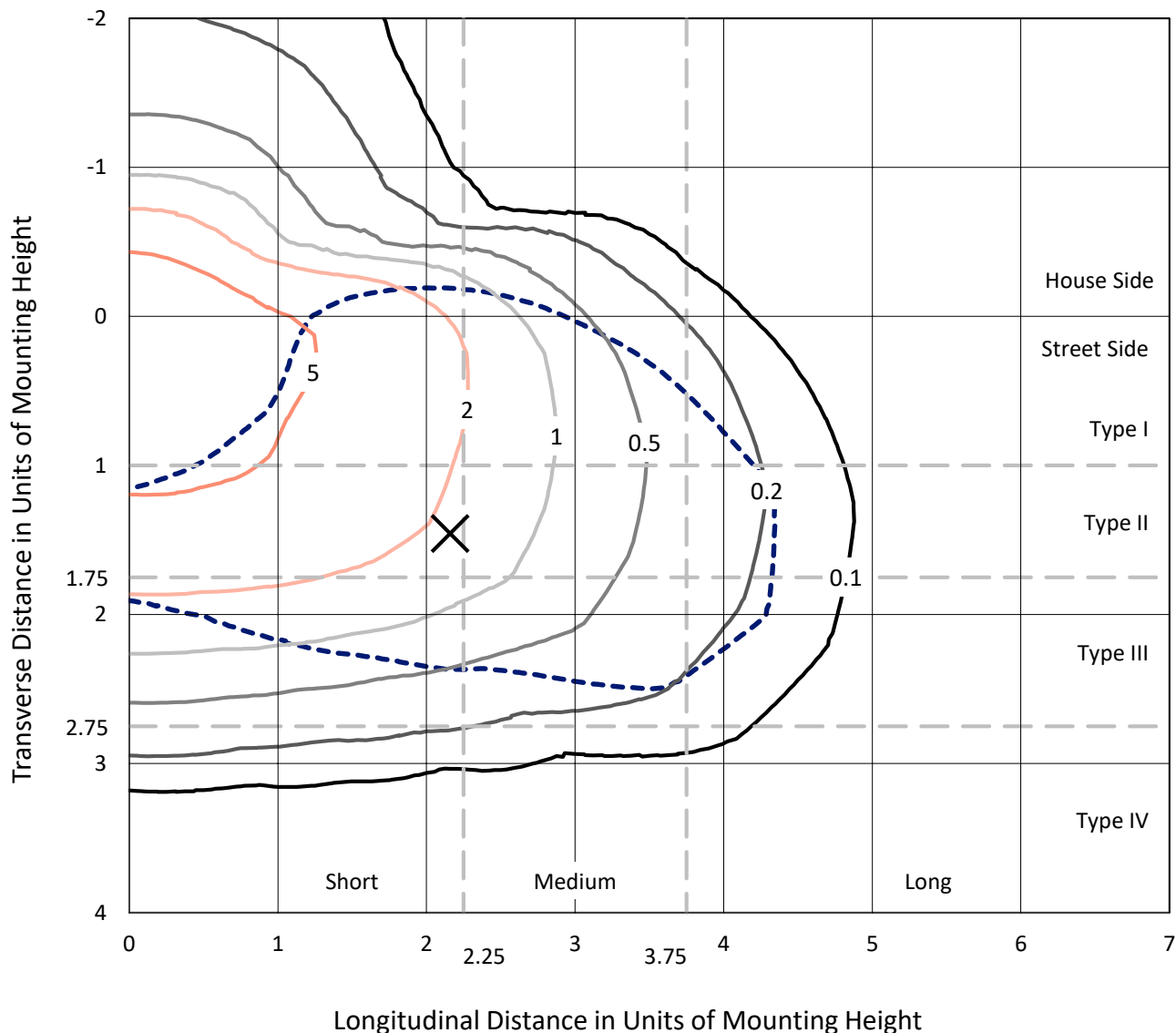
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

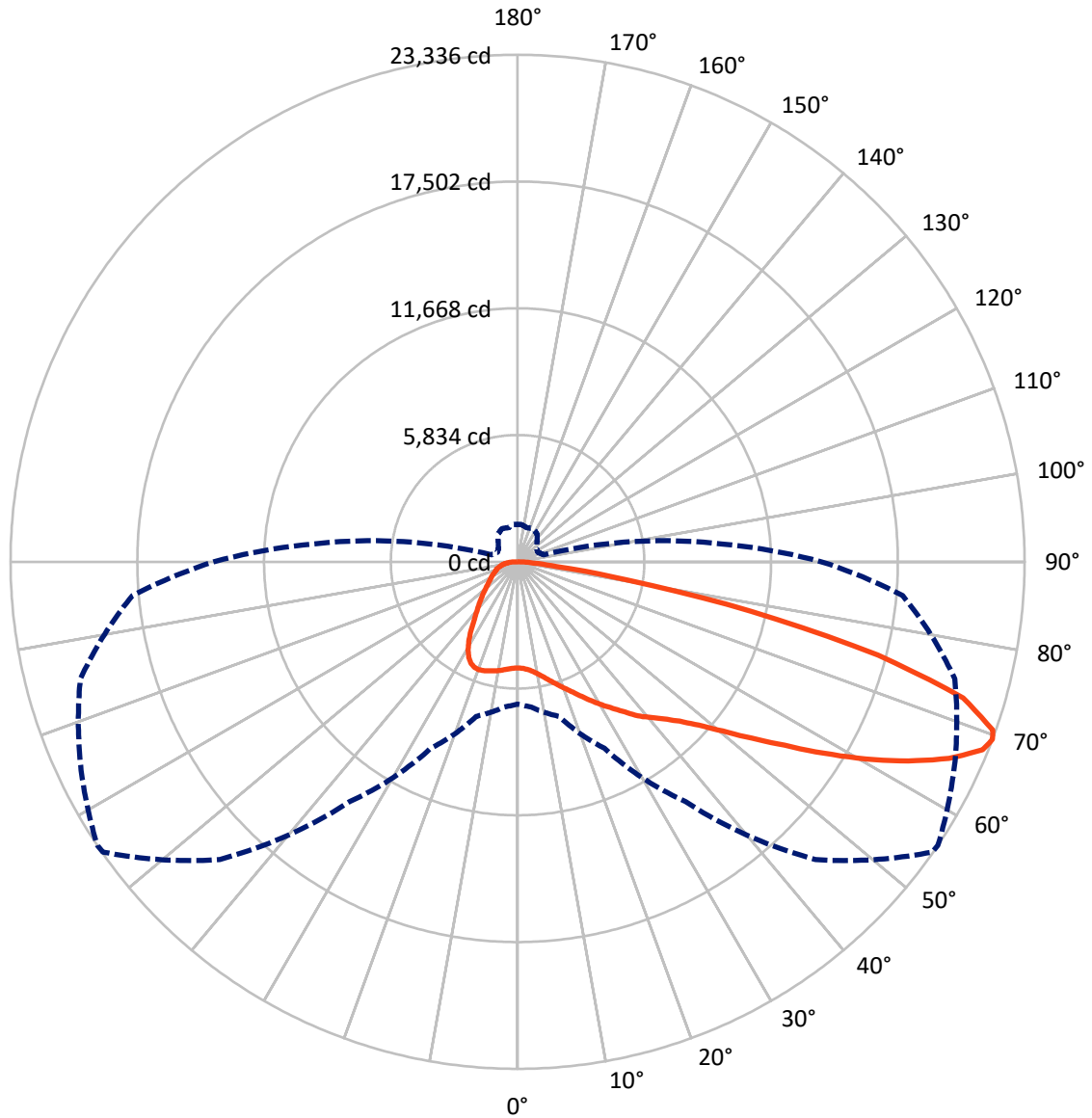
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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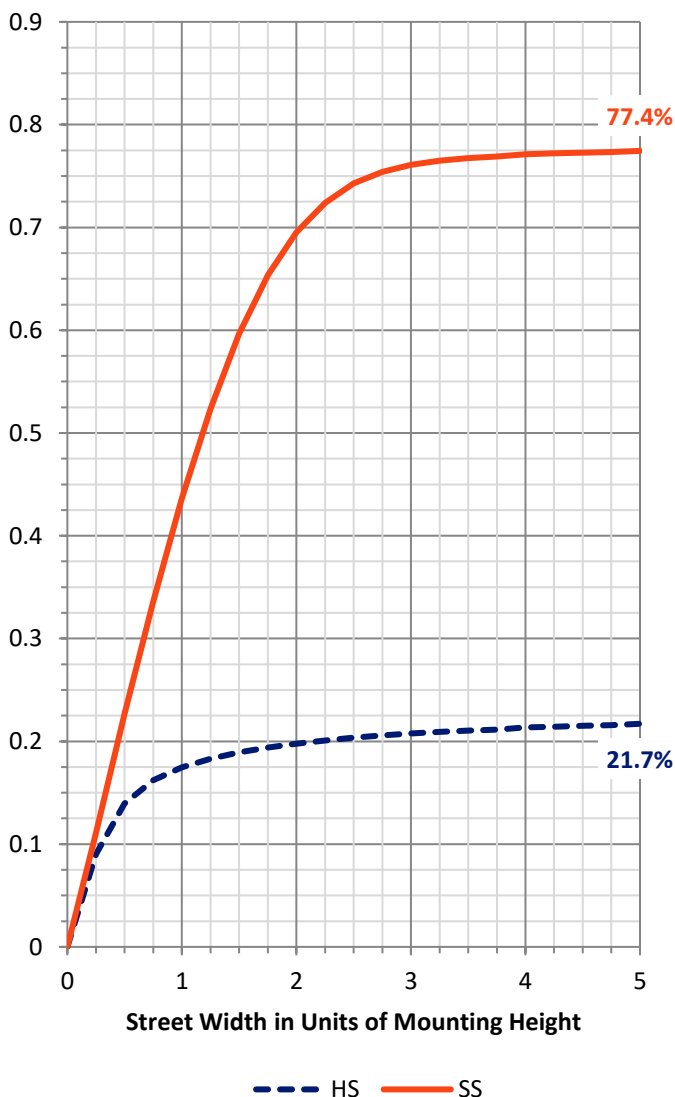
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8319.6	0.0	8319.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29038.4	0.0	29038.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	37358.0	0.0	37358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	1.3
10°-20°	1542.5	4.1
20°-30°	2692.6	7.2
30°-40°	3867.8	10.4
40°-50°	5352.8	14.3
50°-60°	7842.6	21.0
60°-70°	9561.6	25.6
70°-80°	5286.3	14.2
80°-90°	732.1	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°	37358.0	100.0
0°-180°	37358.0	100.0

Coefficient of Utilization



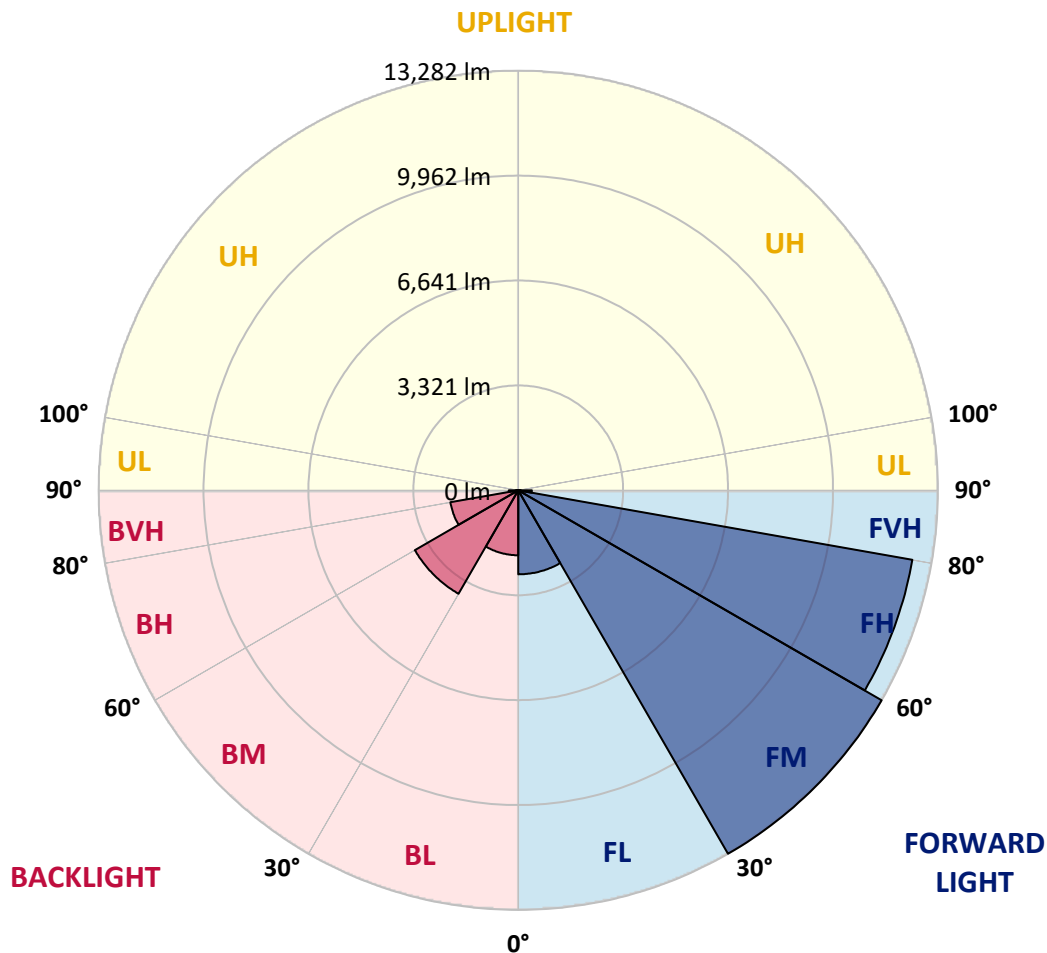
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.8	7.1			
FM (30°-60°)	13282.2	35.6			
FH (60°-80°)	12666.2	33.9			G5
FVH (80°-90°)	431.3	1.2			G3/500
BL (0°-30°)	2056.0	5.5	B3/2500		
BM (30°-60°)	3781.1	10.1	B3/5000		
BH (60°-80°)	2181.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	300.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0
2.5°	4914.9	4920.0	4916.2	4926.5	4914.9	4922.6	4916.2	4916.2	4912.3	4900.7	4887.9
5°	4992.1	5002.4	4996.0	5006.3	4992.1	4994.7	4983.1	4983.1	4971.5	4947.1	4921.3
7.5°	5113.1	5124.7	5119.5	5129.8	5110.5	5110.5	5095.1	5093.8	5070.6	5030.7	5001.1
10°	5257.2	5272.7	5267.5	5283.0	5267.5	5272.7	5257.2	5257.2	5226.3	5169.7	5132.4
12.5°	5467.0	5486.3	5472.1	5470.8	5464.4	5474.7	5461.8	5459.3	5431.0	5353.7	5302.3
15°	5747.5	5768.1	5738.5	5736.0	5699.9	5696.1	5696.1	5692.2	5674.2	5581.5	5496.6
17.5°	6070.6	6077.0	6051.3	6010.1	5963.8	5934.2	5930.3	5940.6	5940.6	5832.5	5697.4
20°	6387.2	6398.7	6378.2	6331.8	6272.6	6228.9	6198.0	6218.6	6217.3	6088.6	5896.8
22.5°	6732.1	6759.1	6728.2	6669.0	6599.5	6550.6	6496.6	6514.6	6515.9	6357.6	6092.4
25°	7178.6	7154.2	7134.9	7051.2	6952.1	6901.9	6851.8	6869.8	6864.6	6647.1	6294.5
27.5°	7573.7	7578.9	7553.1	7464.3	7349.8	7239.1	7236.6	7248.1	7228.8	6948.3	6485.0
30°	8033.2	8035.8	7999.7	7919.9	7795.1	7652.2	7618.8	7638.1	7596.9	7234.0	6685.7
32.5°	8490.0	8502.9	8463.0	8366.5	8266.1	8092.4	8025.5	8038.3	7935.4	7526.1	6892.9
35°	8890.3	8908.3	8895.4	8831.1	8721.7	8572.4	8492.6	8484.9	8357.5	7883.9	7167.1
37.5°	9298.3	9315.0	9300.8	9246.8	9203.0	9044.7	9002.3	9002.3	8780.9	8249.4	7515.8
40°	9717.8	9743.5	9726.8	9652.2	9614.8	9542.8	9441.1	9416.7	9177.3	8688.2	8084.7
42.5°	10107.7	10141.2	10208.1	10164.4	10088.4	10098.7	9894.1	9881.2	9706.2	9336.9	8798.9
45°	10661.1	10710.0	10823.3	10789.8	10774.4	10717.8	10474.5	10462.9	10396.0	10209.4	9685.6
47.5°	11264.7	11331.6	11536.3	11542.7	11708.7	11601.9	11271.2	11231.3	11246.7	11254.4	10768.0
50°	11820.7	11894.0	12229.9	12388.2	12779.5	12802.6	12273.7	12237.7	12298.1	12475.7	12029.2
52.5°	12264.7	12357.3	12776.9	13265.9	13936.4	14126.9	13507.9	13480.9	13525.9	13832.2	13455.1
55°	12590.3	12690.7	13147.5	14038.1	15108.9	15444.8	14928.7	14902.9	14931.3	15321.2	15005.9
57.5°	12666.2	12690.7	13353.5	14558.0	16098.5	16905.4	16667.4	16615.9	16476.9	16816.6	16717.6
60°	12309.7	12407.5	13183.6	14740.8	16864.3	18345.6	18484.5	18420.2	18030.2	18308.2	18228.4
62.5°	11586.5	11761.5	12549.1	14462.8	17164.1	19521.8	20267.0	20189.8	19518.0	19698.1	19314.6
65°	10405.0	10479.7	11307.2	13504.0	16783.2	20274.7	21856.4	21817.8	20972.2	20690.4	19515.4
67.5°	8291.9	8432.1	9134.8	11500.2	15224.7	20185.9	23085.4	23081.5	21922.0	21058.5	18803.7
69°	6550.6	6696.0	7365.2	9473.3	13471.9	19373.8	23291.3	23336.4	22189.7	20834.5	17787.0
70°	5222.5	5391.1	5850.5	7979.1	11915.9	18303.1	23120.2	23201.2	22138.2	20465.2	16848.8
72.5°	2222.6	2359.0	2685.9	4113.1	7262.3	13667.5	21139.5	21445.8	20945.2	18730.4	13924.9
75°	970.4	1012.8	1160.8	1676.9	3223.8	7438.6	16560.5	17126.8	17909.3	15832.1	10372.9
77.5°	710.4	728.4	809.5	984.5	1446.5	2809.4	10649.6	10979.0	12915.9	11520.8	6362.7
80°	549.5	562.4	625.5	723.3	944.6	1136.4	4857.0	5140.1	7262.3	5917.4	2649.8
82.5°	437.6	446.6	490.3	532.8	652.5	688.5	1612.6	1788.9	2680.7	1634.4	701.4
85°	406.7	417.0	432.4	388.7	418.3	404.1	697.5	729.7	809.5	642.2	293.4
87.5°	184.0	217.5	428.6	302.4	222.6	177.6	285.7	298.6	335.9	337.2	130.0
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°	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0	4884.0
2.5°	4895.6	4891.7	4898.2	4882.7	4902.0	4900.7	4894.3	4896.9	4909.7	4908.4	4909.7
5°	4925.2	4922.6	4930.3	4918.7	4941.9	4949.6	4950.9	4962.5	4976.7	4980.5	4980.5
7.5°	4999.8	4999.8	5003.7	4988.2	5003.7	5002.4	4996.0	5007.5	5021.7	5023.0	5021.7
10°	5128.5	5129.8	5123.4	5083.5	5070.6	5035.9	5003.7	5005.0	5023.0	5037.1	5041.0
12.5°	5290.7	5285.5	5257.2	5183.9	5129.8	5059.0	5025.6	5024.3	5042.3	5053.9	5057.7
15°	5476.0	5461.8	5388.5	5268.8	5173.6	5104.1	5050.0	5037.1	5026.8	5014.0	5015.3
17.5°	5651.0	5618.8	5496.6	5330.6	5230.2	5137.5	5033.3	4949.6	4891.7	4858.3	4848.0
20°	5828.6	5765.6	5589.2	5388.5	5261.1	5092.5	4891.7	4721.8	4616.3	4567.4	4558.4
22.5°	5990.8	5889.1	5675.5	5449.0	5236.6	4940.6	4625.3	4378.2	4231.5	4165.9	4171.0
25°	6149.1	6007.5	5765.6	5491.4	5113.1	4672.9	4254.7	3951.0	3781.1	3707.7	3705.1
27.5°	6288.1	6127.2	5863.4	5456.7	4882.7	4292.0	3815.8	3519.8	3378.3	3315.2	3304.9
30°	6447.6	6277.8	5993.4	5324.1	4545.5	3851.9	3387.3	3178.8	3078.4	3015.3	3003.8
32.5°	6642.0	6482.4	6100.2	5083.5	4114.4	3392.4	3052.7	2907.2	2815.9	2745.1	2732.2
35°	6925.1	6752.7	6127.2	4738.6	3640.8	3029.5	2806.8	2657.6	2534.0	2442.6	2433.6
37.5°	7280.3	7091.1	6065.4	4292.0	3181.4	2794.0	2602.2	2418.2	2257.3	2128.6	2108.0
40°	7792.5	7506.8	5894.3	3777.2	2842.9	2612.5	2402.7	2193.0	1993.5	1842.9	1813.3
42.5°	8407.7	7994.6	5631.7	3265.0	2594.5	2428.5	2204.6	1944.6	1754.1	1647.3	1631.9
45°	9190.1	8501.6	5267.5	2817.1	2350.0	2244.5	1990.9	1751.5	1633.1	1554.6	1541.8
47.5°	10083.3	9070.5	4885.3	2452.9	2142.8	2072.0	1819.8	1665.3	1571.4	1509.6	1498.0
50°	11181.1	9712.7	4479.9	2154.4	1934.3	1864.8	1738.7	1617.7	1543.1	1495.4	1483.9
52.5°	12419.1	10437.2	4187.8	1918.9	1761.8	1711.7	1696.2	1592.0	1531.5	1495.4	1483.9
55°	13752.4	11174.6	3872.4	1720.7	1612.6	1626.7	1667.9	1594.5	1553.4	1509.6	1492.9
57.5°	15087.0	11936.5	3521.1	1553.4	1494.2	1563.7	1648.6	1599.7	1564.9	1522.5	1507.0
60°	16142.3	12419.1	2976.7	1413.1	1400.2	1494.2	1602.3	1561.1	1516.0	1517.3	1514.7
62.5°	16635.2	12393.4	2375.7	1288.2	1306.3	1400.2	1527.6	1500.6	1463.3	1513.5	1517.3
65°	16358.5	11775.6	1849.4	1175.0	1205.9	1302.4	1450.4	1471.0	1483.9	1580.4	1593.3
67.5°	15197.7	10573.6	1432.4	1075.9	1114.5	1235.5	1458.1	1602.3	1619.0	1720.7	1719.4
69°	13996.9	9446.3	1244.5	1024.4	1069.5	1252.2	1558.5	1685.9	1622.9	1731.0	1715.5
70°	12990.5	8554.4	1144.1	989.7	1048.9	1281.8	1625.4	1684.6	1603.5	1696.2	1670.5
72.5°	10004.8	6154.2	970.4	925.3	979.4	1226.5	1644.7	1647.3	1558.5	1576.5	1532.8
75°	6862.0	3889.2	846.8	837.8	873.8	1105.5	1583.0	1573.9	1441.4	1415.7	1379.6
77.5°	3783.6	1975.5	719.4	754.2	778.6	979.4	1438.8	1425.9	1316.6	1262.5	1249.6
80°	1459.4	864.8	607.4	670.5	685.9	848.1	1261.2	1249.6	1158.3	1088.8	1069.5
82.5°	550.8	453.0	501.9	580.4	575.3	700.1	1068.2	1061.7	972.9	871.3	840.4
85°	254.8	271.5	397.7	478.7	441.4	518.6	854.5	866.1	758.0	637.0	637.0
87.5°	108.1	151.9	281.8	361.6	297.3	350.1	626.7	598.4	549.5	380.9	357.8
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)