

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: P383178

Luminaire Tested: **GAN-SA5A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15812.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

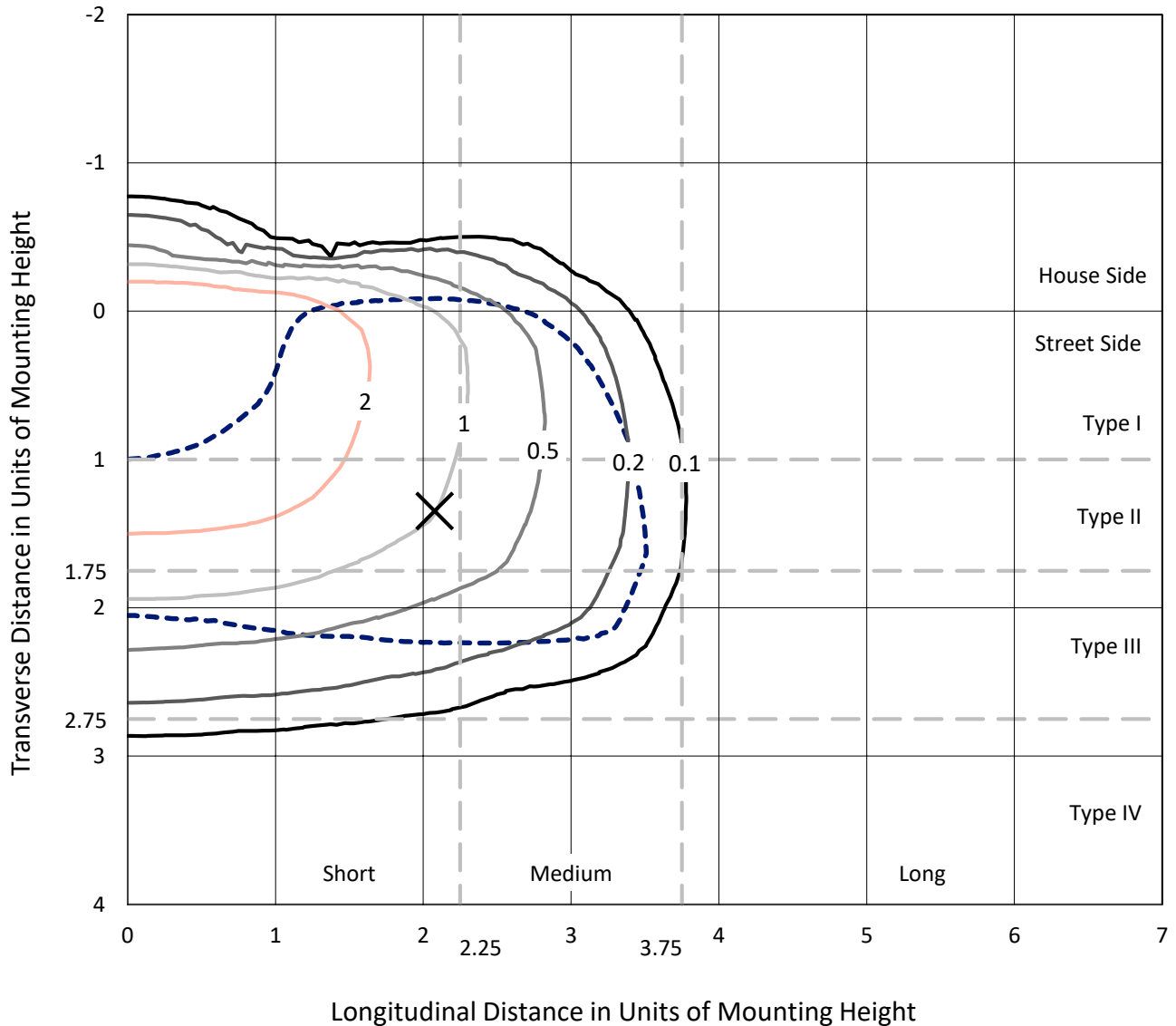
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

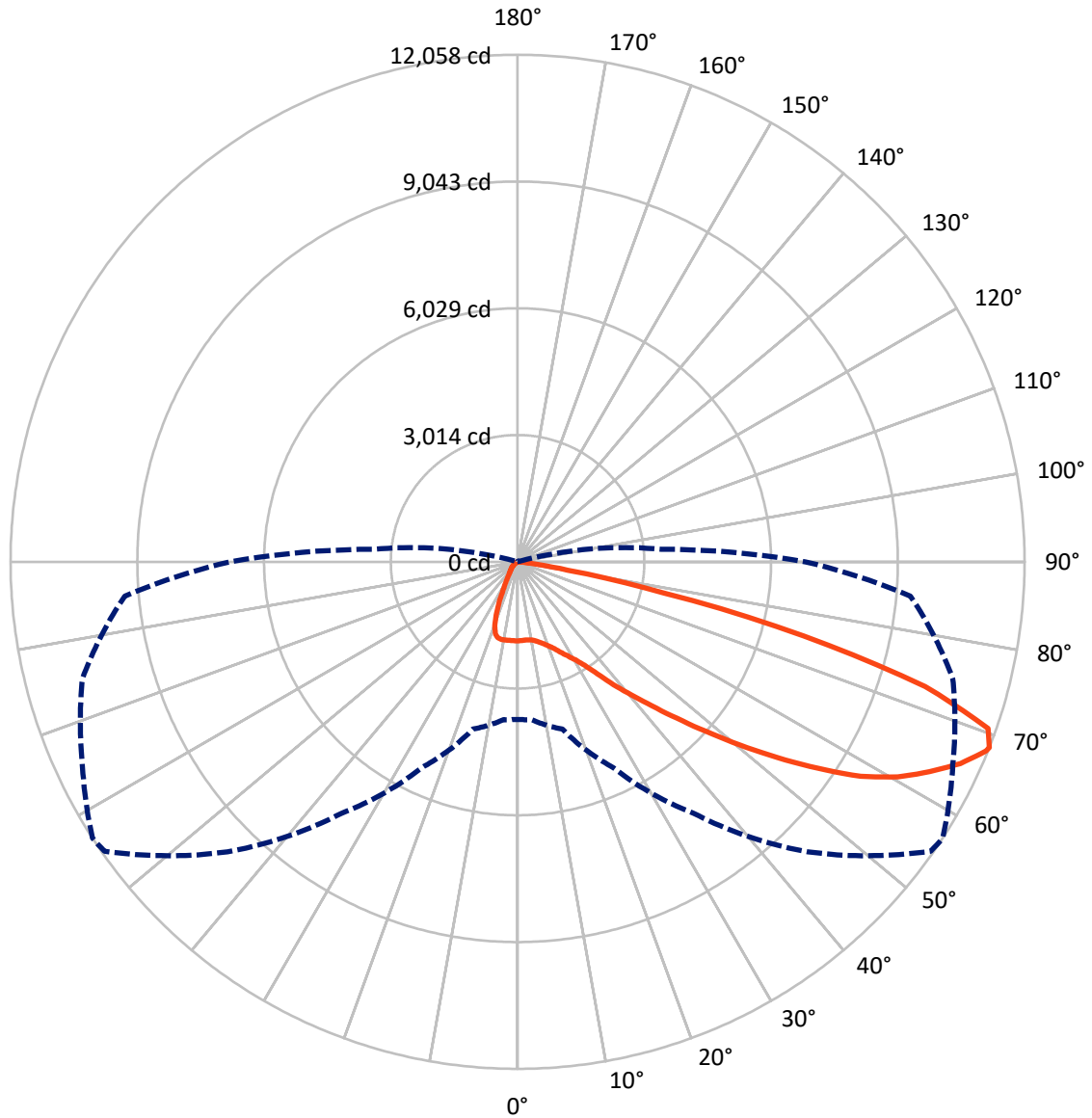
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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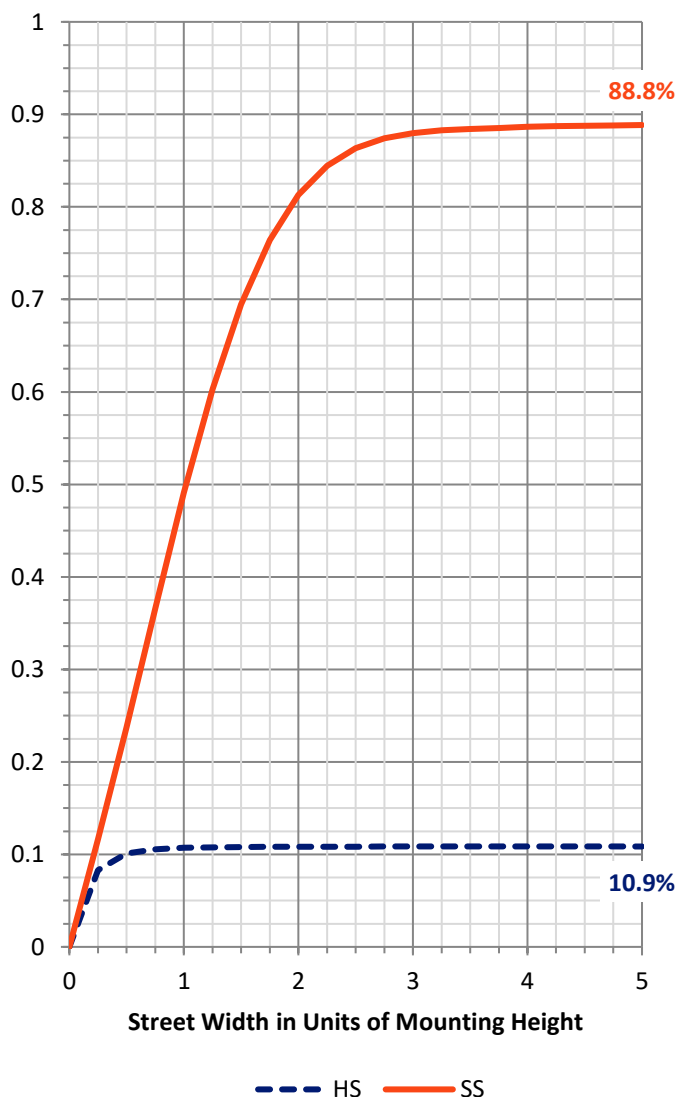
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.9	0.0	1733.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	14078.2	0.0	14078.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	15812.1	0.0	15812.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.1
10°-20°	487.3	3.1
20°-30°	840.6	5.3
30°-40°	1450.8	9.2
40°-50°	2481.6	15.7
50°-60°	3970.3	25.1
60°-70°	4587.2	29.0
70°-80°	1752.8	11.1
80°-90°	65.7	0.4
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°	15812.1	100.0
0°-180°	15812.1	100.0

Coefficient of Utilization



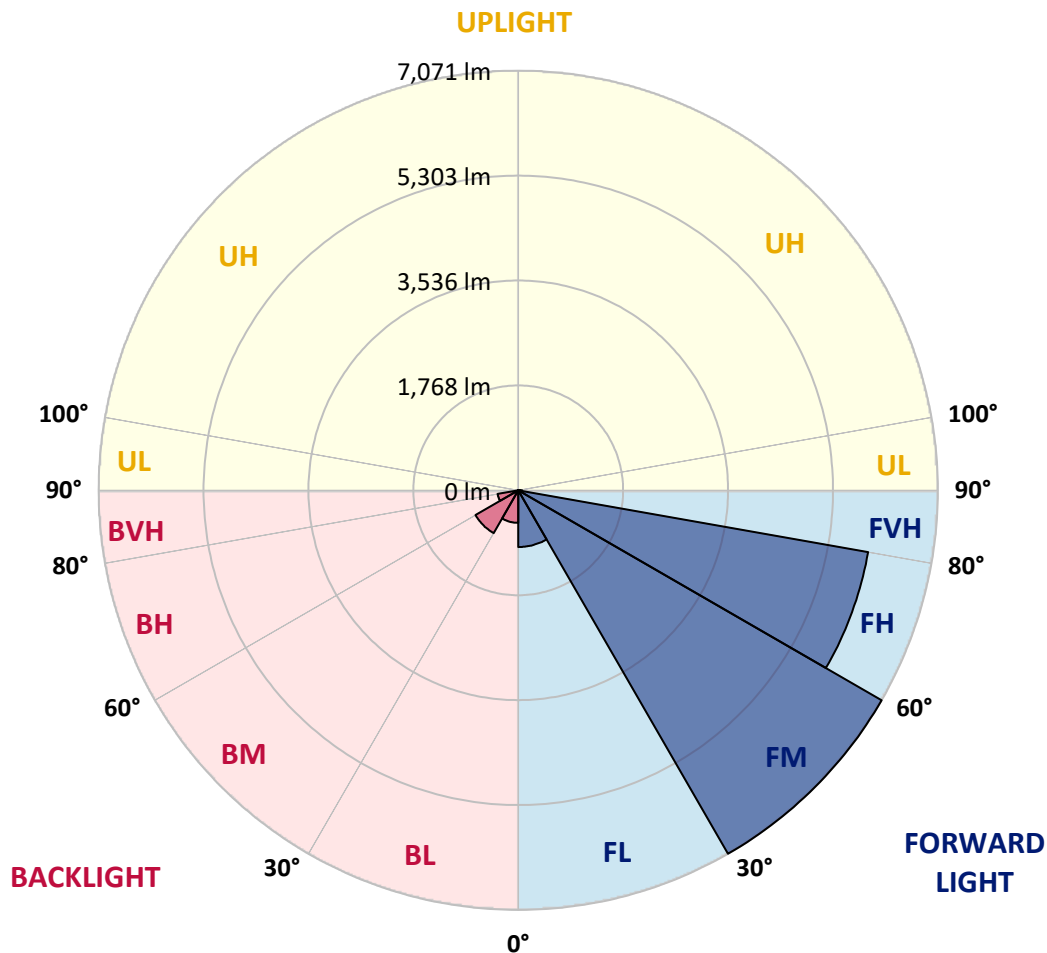
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.7	6.0			
FM (30°-60°)	7071.0	44.7			
FH (60°-80°)	5987.0	37.9			G3/7500
FVH (80°-90°)	64.5	0.4			G1/100
BL (0°-30°)	548.0	3.5	B2/1000		
BM (30°-60°)	831.6	5.3	B1/1000		
BH (60°-80°)	353.1	2.2	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1834.8	1843.0	1849.0	1852.8	1857.2	1866.9	1869.9	1874.4	1876.7	1876.7	1881.9
5°	1762.3	1771.2	1783.9	1794.4	1815.3	1842.2	1861.7	1869.2	1882.7	1894.6	1901.3
7.5°	1695.0	1705.5	1720.4	1745.1	1780.9	1824.3	1864.7	1875.1	1901.3	1926.7	1939.5
10°	1651.6	1659.8	1679.3	1714.4	1761.5	1822.1	1878.9	1891.6	1936.5	1979.1	2003.0
12.5°	1636.6	1644.1	1664.3	1703.9	1762.3	1833.3	1911.8	1930.4	1996.3	2058.3	2092.0
15°	1658.3	1659.8	1681.5	1718.9	1776.5	1861.0	1966.4	1988.8	2071.8	2152.5	2194.4
17.5°	1742.1	1735.4	1746.6	1763.0	1808.6	1897.6	2024.0	2057.6	2168.3	2263.2	2302.8
20°	1951.4	1951.4	1926.0	1881.2	1881.9	1954.4	2101.7	2139.9	2275.1	2385.0	2421.0
22.5°	2309.6	2302.8	2252.0	2142.1	2041.1	2052.4	2196.7	2246.0	2403.8	2521.1	2533.1
25°	2740.2	2731.9	2653.5	2498.7	2323.7	2210.8	2325.2	2382.1	2557.0	2661.0	2636.3
27.5°	3196.3	3189.5	3111.8	2919.7	2670.7	2463.6	2478.6	2532.3	2713.3	2815.7	2737.3
30°	3638.2	3640.4	3563.4	3366.0	3084.2	2785.8	2672.9	2704.3	2865.1	2969.0	2856.9
32.5°	4058.4	4061.4	3994.8	3774.3	3511.1	3160.4	2942.1	2933.8	3041.5	3144.0	3015.3
35°	4433.0	4440.4	4394.8	4223.5	3944.7	3577.6	3291.3	3271.8	3292.0	3407.9	3258.4
37.5°	4794.0	4798.6	4764.1	4619.8	4386.6	4035.9	3732.3	3704.7	3661.4	3750.3	3579.1
40°	5189.6	5178.4	5138.7	5007.9	4807.5	4542.1	4206.4	4158.5	4083.1	4162.2	4000.8
42.5°	5557.4	5544.8	5551.5	5403.4	5234.5	5062.5	4758.9	4676.6	4632.6	4723.8	4518.2
45°	6017.2	6010.5	6033.0	5904.3	5767.5	5642.7	5392.2	5302.5	5283.0	5389.9	5144.0
47.5°	6471.1	6487.5	6557.1	6502.5	6447.1	6337.2	6062.9	6022.5	6034.5	6163.8	5804.2
50°	6849.4	6868.9	7059.5	7122.3	7202.3	7138.0	6862.9	6838.2	6885.3	7001.9	6514.4
52.5°	7123.1	7162.7	7399.7	7689.0	7980.7	8024.0	7749.6	7727.2	7790.7	7808.7	7063.3
55°	7312.9	7348.1	7616.5	8145.8	8739.5	8926.5	8756.0	8669.3	8657.2	8480.1	7640.5
57.5°	7346.6	7342.8	7728.7	8441.2	9334.7	9816.9	9709.2	9624.0	9378.7	9100.7	8302.1
60°	7156.7	7178.4	7626.2	8543.6	9708.5	10490.5	10498.7	10388.2	10006.0	9704.0	8943.6
62.5°	6572.0	6660.2	7112.6	8275.2	9704.0	10762.0	11077.5	10993.0	10536.2	10198.2	9594.1
65°	5623.9	5655.3	6086.7	7355.6	9048.3	10648.3	11598.6	11567.2	11013.9	10678.2	9928.3
67.5°	4106.9	4038.9	4492.0	5792.2	7660.6	9985.9	11972.4	12012.0	11382.5	10776.9	9572.4
68°	3748.1	3768.3	4121.2	5405.7	7297.3	9751.8	11997.1	12057.7	11419.2	10712.6	9378.0
70°	2234.0	2272.9	2587.7	3721.9	5551.5	8427.7	11730.9	11869.2	11200.8	10049.4	8111.5
72.5°	570.5	616.9	914.4	1665.8	3170.9	5938.0	9902.9	10136.9	9724.9	8152.6	5475.9
75°	234.7	246.8	326.7	548.8	1181.3	2675.1	6527.2	7028.1	6741.7	4880.8	2474.7
77.5°	162.3	170.5	210.1	304.3	511.4	907.0	3200.1	3561.9	3209.0	1665.8	539.8
80°	116.6	123.3	150.3	202.6	293.8	323.7	1043.0	1206.0	957.7	365.6	133.9
82.5°	69.5	74.8	112.2	144.3	178.7	154.7	259.4	294.6	277.4	181.7	59.8
85°	34.4	40.3	75.5	103.2	96.4	65.0	79.3	88.2	109.2	110.7	32.1
87.5°	2.2	4.5	44.2	62.0	26.9	15.0	23.2	28.4	38.8	54.6	13.4
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°	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1884.1	1884.9	1879.7	1877.4	1878.9	1869.9	1866.2	1867.7	1867.7	1869.9	1866.2
5°	1902.8	1902.8	1893.8	1881.9	1875.1	1858.0	1846.7	1843.7	1841.5	1840.0	1837.0
7.5°	1943.2	1938.7	1923.0	1896.8	1874.4	1837.0	1808.6	1793.7	1786.1	1783.2	1780.9
10°	2008.2	2000.0	1973.9	1925.2	1873.6	1807.1	1745.1	1700.9	1664.3	1649.4	1640.4
12.5°	2095.7	2083.8	2039.6	1958.9	1868.4	1745.8	1611.2	1481.9	1361.5	1312.2	1287.5
15°	2196.7	2179.4	2110.0	1987.3	1837.8	1607.5	1315.2	1088.6	921.9	859.1	832.2
17.5°	2299.1	2276.6	2171.3	2005.2	1745.8	1321.1	922.6	696.8	585.4	555.5	545.0
20°	2402.3	2369.4	2224.3	1991.8	1538.0	952.5	608.6	509.2	477.0	468.0	465.0
22.5°	2500.2	2449.4	2272.1	1939.5	1218.0	639.2	481.5	450.1	439.6	434.4	432.9
25°	2585.4	2514.4	2314.1	1778.0	862.1	483.0	433.6	423.2	409.7	400.0	400.8
27.5°	2665.4	2579.5	2339.5	1511.8	575.0	412.7	401.5	387.3	362.7	348.4	348.4
30°	2761.9	2666.2	2358.1	1163.4	423.2	364.9	355.9	334.2	300.5	281.9	281.9
32.5°	2906.9	2797.8	2346.2	816.5	350.6	320.7	299.8	269.9	233.3	215.4	214.5
35°	3129.0	3001.2	2261.0	535.4	309.6	278.9	245.3	208.6	176.4	161.5	160.8
37.5°	3428.1	3273.3	2069.5	382.8	277.4	240.0	199.6	159.3	135.4	125.6	124.8
40°	3816.1	3589.5	1795.9	310.3	247.5	202.6	154.0	123.3	106.9	99.4	100.1
42.5°	4281.9	3928.2	1467.7	267.6	218.4	166.7	120.4	97.2	86.7	81.5	80.0
45°	4799.3	4262.5	1123.7	238.5	189.2	134.6	94.2	77.0	68.7	65.8	65.8
47.5°	5368.2	4587.7	822.5	213.0	157.8	104.0	75.5	62.8	56.1	53.8	53.1
50°	5884.9	4813.5	592.9	186.1	129.4	82.3	61.3	52.4	47.9	44.9	44.9
52.5°	6315.5	4884.6	436.6	157.0	104.7	65.8	50.9	44.9	40.3	38.1	38.1
55°	6694.7	4855.3	324.5	129.4	84.5	53.8	43.4	38.1	34.4	32.1	32.1
57.5°	7058.0	4761.1	242.2	105.5	68.0	43.4	36.6	32.1	28.4	26.9	26.9
60°	7354.8	4604.2	180.2	85.2	54.6	35.1	30.6	26.2	23.2	21.0	21.0
62.5°	7595.6	4430.7	132.4	70.2	43.4	27.7	23.9	21.7	17.2	15.0	15.0
65°	7597.1	4142.9	99.4	58.3	33.6	21.7	18.0	17.2	11.2	8.9	8.2
67.5°	7047.5	3571.6	76.3	50.1	26.2	16.5	13.4	14.2	6.0	3.7	3.0
68°	6847.9	3426.6	71.8	49.4	24.7	15.7	12.7	14.2	5.2	3.0	2.2
70°	5773.5	2726.0	57.6	47.9	21.7	11.9	10.4	14.2	4.5	2.2	1.5
72.5°	3692.7	1582.0	42.6	38.1	16.5	8.9	6.7	12.7	4.5	1.5	0.7
75°	1571.6	490.5	29.2	26.9	9.7	6.7	4.5	8.2	3.0	0.7	0.0
77.5°	331.3	110.7	17.2	16.5	6.7	4.5	3.0	2.2	0.7	0.0	0.0
80°	85.2	32.1	8.9	8.2	3.7	2.2	1.5	0.0	0.0	0.0	0.0
82.5°	26.9	12.7	5.2	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)