

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: P322217

Luminaire Tested: **GAN-SA3D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322217
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-SA3D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 15720 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

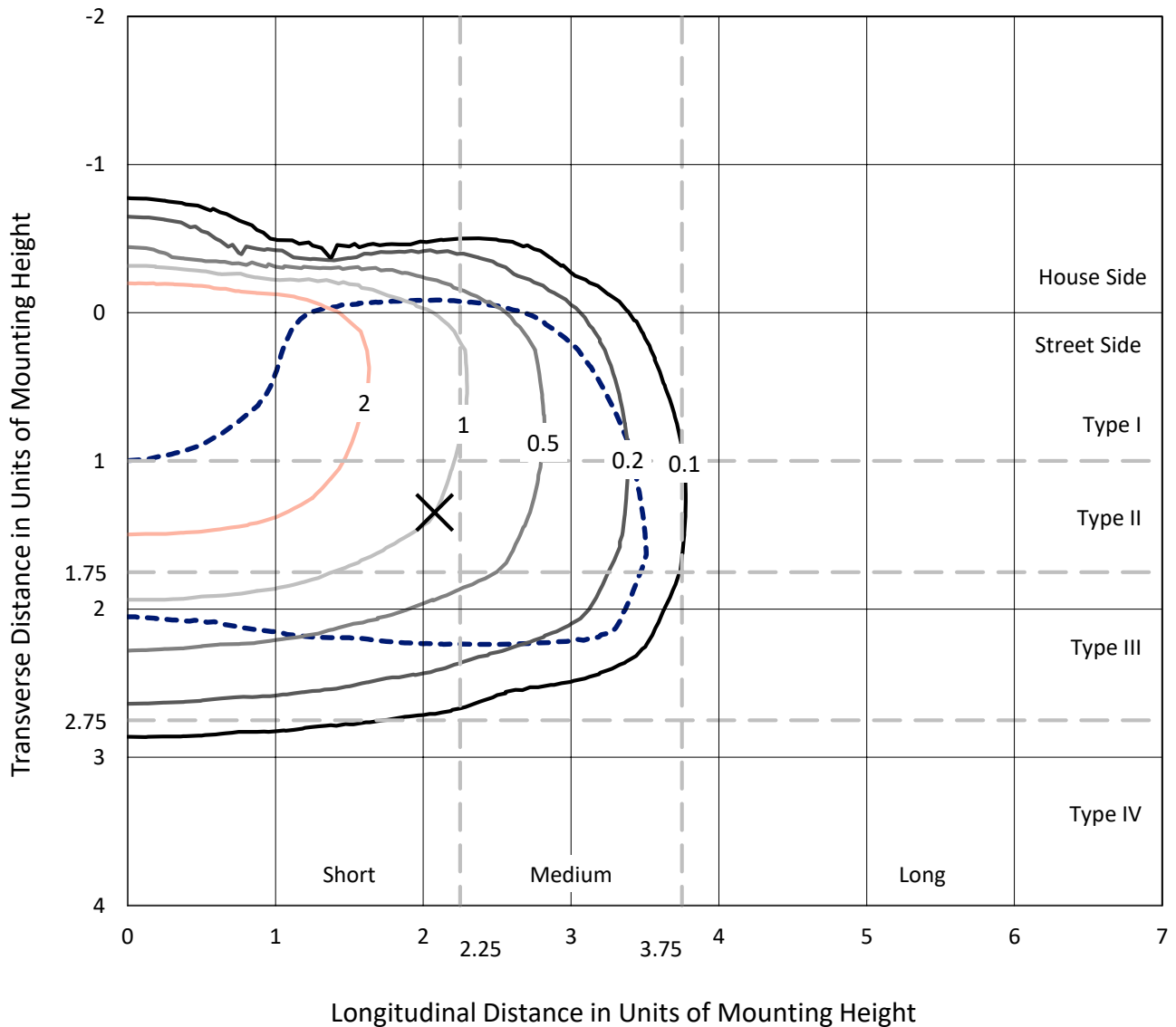
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

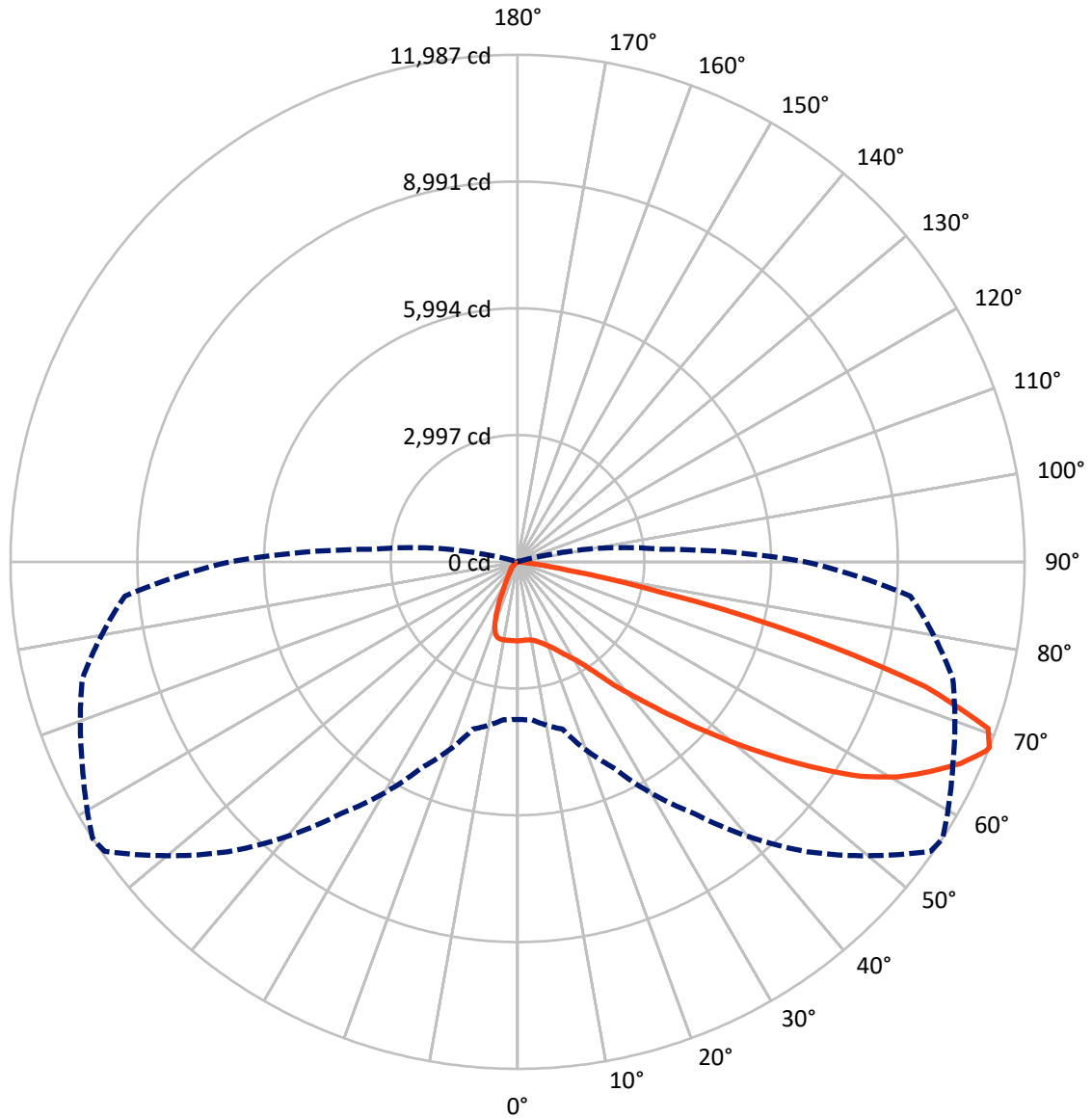
✕ Max cd
 - - - 1/2 Max cd



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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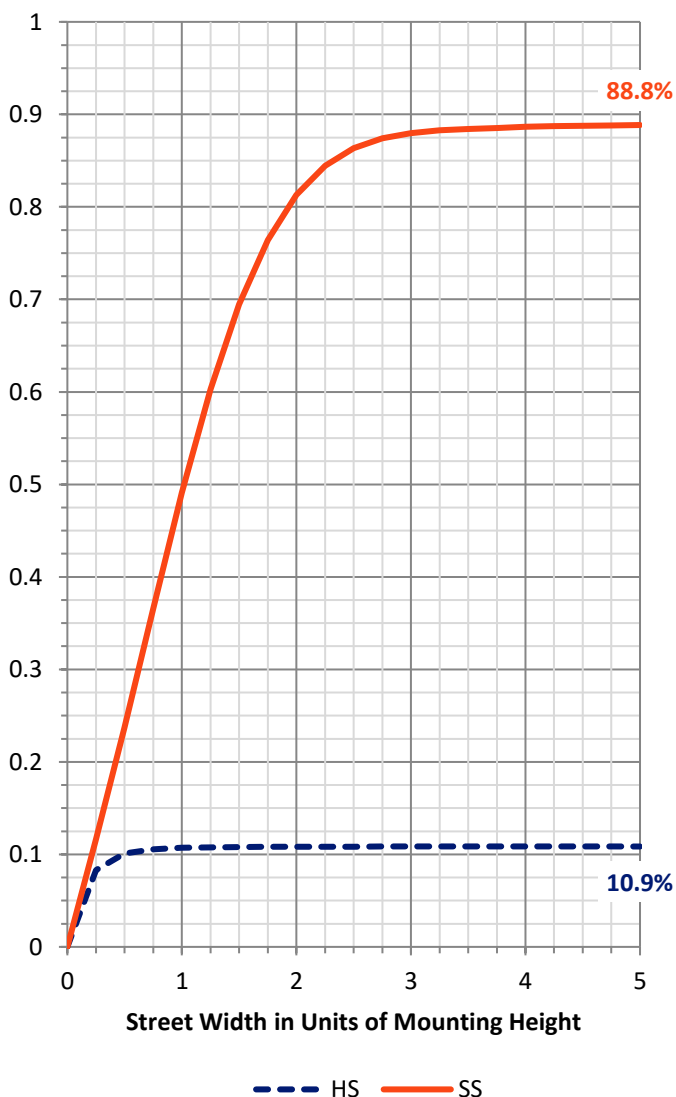
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1723.8	0.0	1723.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13996.2	0.0	13996.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	15720.0	0.0	15720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	1.1
10°-20°	484.4	3.1
20°-30°	835.7	5.3
30°-40°	1442.3	9.2
40°-50°	2467.1	15.7
50°-60°	3947.2	25.1
60°-70°	4560.5	29.0
70°-80°	1742.6	11.1
80°-90°	65.3	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°	15720.0	100.0
0°-180°	15720.0	100.0

Coefficient of Utilization



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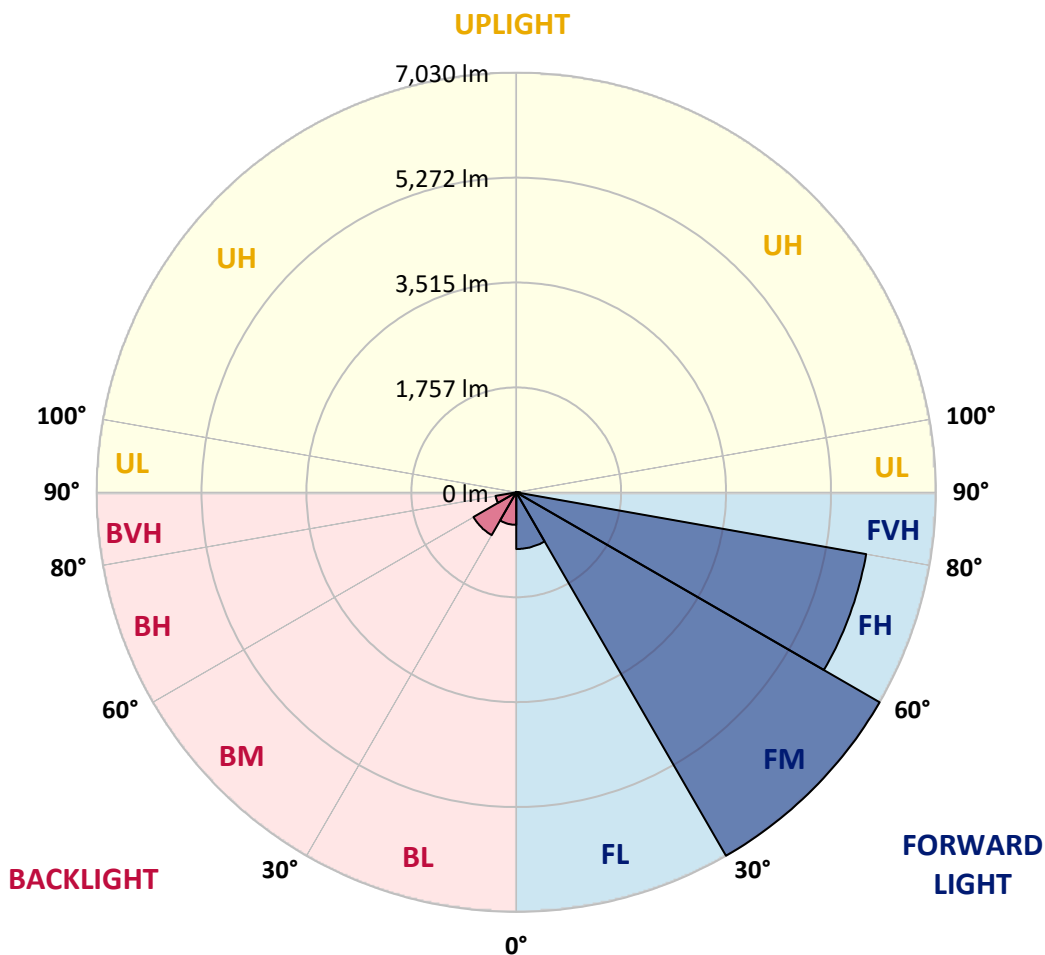
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.1	6.0			
FM (30°-60°)	7029.8	44.7			
FH (60°-80°)	5952.1	37.9			G3/7500
FVH (80°-90°)	64.1	0.4			G1/100
BL (0°-30°)	544.8	3.5	B2/1000		
BM (30°-60°)	826.8	5.3	B1/1000		
BH (60°-80°)	351.1	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°	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0
2.5°	1824.1	1832.3	1838.2	1841.9	1846.4	1856.1	1859.0	1863.5	1865.7	1865.7	1870.9
5°	1752.0	1760.9	1773.5	1784.0	1804.8	1831.5	1850.9	1858.3	1871.7	1883.6	1890.2
7.5°	1685.1	1695.5	1710.4	1734.9	1770.6	1813.7	1853.8	1864.2	1890.2	1915.5	1928.2
10°	1642.0	1650.2	1669.5	1704.4	1751.3	1811.5	1868.0	1880.6	1925.2	1967.6	1991.3
12.5°	1627.1	1634.5	1654.6	1694.0	1752.0	1822.6	1900.7	1919.2	1984.7	2046.3	2079.8
15°	1648.7	1650.2	1671.7	1708.9	1766.1	1850.1	1954.9	1977.2	2059.7	2140.0	2181.6
17.5°	1731.9	1725.2	1736.4	1752.7	1798.1	1886.5	2012.2	2045.6	2155.6	2250.0	2289.4
20°	1940.1	1940.1	1914.8	1870.2	1870.9	1943.0	2089.5	2127.4	2261.9	2371.2	2406.9
22.5°	2296.1	2289.4	2238.9	2129.6	2029.2	2040.4	2183.9	2232.9	2389.8	2506.5	2518.4
25°	2724.2	2716.1	2638.0	2484.2	2310.2	2198.0	2311.7	2368.2	2542.1	2645.5	2620.9
27.5°	3177.7	3171.0	3093.7	2902.6	2655.1	2449.2	2464.1	2517.6	2697.5	2799.3	2721.3
30°	3617.0	3619.2	3542.6	3346.4	3066.2	2769.6	2657.4	2688.6	2848.4	2951.7	2840.2
32.5°	4034.7	4037.7	3971.5	3752.3	3490.6	3142.0	2924.9	2916.8	3023.8	3125.6	2997.8
35°	4407.1	4414.5	4369.2	4199.0	3921.7	3556.8	3272.1	3252.7	3272.8	3388.0	3239.4
37.5°	4766.1	4770.6	4736.4	4592.9	4361.0	4012.4	3710.6	3683.1	3640.0	3728.5	3558.2
40°	5159.3	5148.2	5108.8	4978.7	4779.5	4515.6	4181.9	4134.3	4059.2	4138.0	3977.5
42.5°	5525.1	5512.4	5519.1	5371.9	5203.9	5033.0	4731.2	4649.4	4605.6	4696.3	4491.9
45°	5982.2	5975.5	5997.8	5870.0	5733.9	5609.8	5360.8	5271.6	5252.3	5358.6	5114.0
47.5°	6433.4	6449.7	6518.9	6464.6	6409.6	6300.3	6027.5	5987.4	5999.3	6127.9	5770.4
50°	6809.5	6828.8	7018.4	7080.8	7160.4	7096.4	6822.9	6798.4	6845.2	6961.1	6476.5
52.5°	7081.6	7121.0	7356.6	7644.3	7934.1	7977.3	7704.5	7682.2	7745.3	7763.2	7022.1
55°	7270.4	7305.3	7572.1	8098.4	8688.6	8874.4	8705.0	8618.7	8606.8	8430.7	7595.9
57.5°	7303.8	7300.1	7683.6	8392.0	9280.3	9759.7	9652.7	9567.9	9324.1	9047.6	8253.8
60°	7115.0	7136.6	7581.8	8493.9	9651.9	10429.5	10437.6	10327.6	9947.8	9647.5	8891.5
62.5°	6533.7	6621.4	7071.2	8227.0	9647.5	10699.3	11013.0	10929.0	10474.8	10138.8	9538.2
65°	5591.2	5622.4	6051.3	7312.7	8995.6	10586.3	11531.0	11499.8	10949.8	10616.0	9870.5
67.5°	4083.0	4015.4	4465.8	5758.5	7616.0	9927.7	11902.7	11942.1	11316.2	10714.1	9516.7
68°	3726.2	3746.3	4097.2	5374.2	7254.8	9695.1	11927.2	11987.4	11352.6	10650.2	9323.4
70°	2221.0	2259.7	2572.6	3700.2	5519.1	8378.6	11662.6	11800.1	11135.6	9990.9	8064.2
72.5°	567.1	613.2	909.1	1656.1	3152.4	5903.4	9845.2	10077.9	9668.3	8105.1	5444.0
75°	233.4	245.3	324.8	545.6	1174.4	2659.6	6489.1	6987.2	6702.5	4852.4	2460.4
77.5°	161.3	169.5	208.9	302.5	508.4	901.6	3181.4	3541.2	3190.3	1656.1	536.7
80°	116.0	122.6	149.4	201.4	292.1	321.9	1036.9	1199.0	952.2	363.5	133.1
82.5°	69.1	74.3	111.5	143.5	177.7	153.9	257.9	292.9	275.8	180.6	59.5
85°	34.2	40.1	75.1	102.6	95.9	64.7	78.8	87.7	108.5	110.0	32.0
87.5°	2.2	4.5	43.9	61.7	26.8	14.9	23.0	28.2	38.7	54.3	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°	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0
2.5°	1873.2	1873.9	1868.7	1866.5	1868.0	1859.0	1855.3	1856.8	1856.8	1859.0	1855.3
5°	1891.7	1891.7	1882.8	1870.9	1864.2	1847.1	1836.0	1833.0	1830.8	1829.3	1826.3
7.5°	1931.9	1927.4	1911.8	1885.8	1863.5	1826.3	1798.1	1783.2	1775.8	1772.8	1770.6
10°	1996.5	1988.4	1962.4	1914.0	1862.7	1796.6	1734.9	1691.0	1654.6	1639.8	1630.8
12.5°	2083.5	2071.6	2027.8	1947.5	1857.5	1735.6	1601.8	1473.3	1353.6	1304.5	1280.0
15°	2183.9	2166.8	2097.6	1975.7	1827.1	1598.1	1307.5	1082.3	916.5	854.1	827.3
17.5°	2285.7	2263.4	2158.6	1993.6	1735.6	1313.4	917.3	692.8	582.0	552.3	541.9
20°	2388.3	2355.6	2211.4	1980.2	1529.0	947.0	605.1	506.2	474.2	465.3	462.3
22.5°	2485.6	2435.1	2258.9	1928.2	1210.9	635.5	478.7	447.5	437.1	431.9	430.4
25°	2570.4	2499.8	2300.6	1767.6	857.0	480.2	431.1	420.7	407.3	397.7	398.4
27.5°	2649.9	2564.4	2325.8	1503.0	571.6	410.3	399.2	385.0	360.5	346.4	346.4
30°	2745.8	2650.7	2344.4	1156.6	420.7	362.7	353.8	332.3	298.8	280.2	280.2
32.5°	2890.0	2781.5	2332.5	811.7	348.6	318.9	298.1	268.3	231.9	214.1	213.3
35°	3110.8	2983.7	2247.8	532.2	307.7	277.3	243.8	207.4	175.4	160.6	159.8
37.5°	3408.1	3254.2	2057.5	380.6	275.8	238.6	198.5	158.3	134.5	124.9	124.1
40°	3793.9	3568.7	1785.4	308.5	246.0	201.4	153.1	122.6	106.3	98.9	99.6
42.5°	4257.0	3905.4	1459.1	266.1	217.0	165.8	119.7	96.6	86.2	81.0	79.5
45°	4771.3	4237.6	1117.2	237.1	188.1	133.8	93.7	76.6	68.4	65.4	65.4
47.5°	5337.0	4561.0	817.6	211.8	156.8	103.3	75.1	62.4	55.7	53.5	52.8
50°	5850.6	4785.5	589.4	185.1	128.6	81.8	61.0	52.0	47.6	44.6	44.6
52.5°	6278.8	4856.1	434.1	156.1	104.1	65.4	50.5	44.6	40.1	37.9	37.9
55°	6655.6	4827.1	322.6	128.6	84.0	53.5	43.1	37.9	34.2	32.0	32.0
57.5°	7016.9	4733.4	240.8	104.8	67.6	43.1	36.4	32.0	28.2	26.8	26.8
60°	7312.0	4577.3	179.1	84.7	54.3	34.9	30.5	26.0	23.0	20.8	20.8
62.5°	7551.3	4404.9	131.6	69.9	43.1	27.5	23.8	21.6	17.1	14.9	14.9
65°	7552.8	4118.7	98.9	58.0	33.4	21.6	17.8	17.1	11.1	8.9	8.2
67.5°	7006.5	3550.8	75.8	49.8	26.0	16.4	13.4	14.1	5.9	3.7	3.0
68°	6808.0	3406.6	71.4	49.1	24.5	15.6	12.6	14.1	5.2	3.0	2.2
70°	5739.9	2710.1	57.2	47.6	21.6	11.9	10.4	14.1	4.5	2.2	1.5
72.5°	3671.2	1572.9	42.4	37.9	16.4	8.9	6.7	12.6	4.5	1.5	0.7
75°	1562.4	487.6	29.0	26.8	9.7	6.7	4.5	8.2	3.0	0.7	0.0
77.5°	329.3	110.0	17.1	16.4	6.7	4.5	3.0	2.2	0.7	0.0	0.0
80°	84.7	32.0	8.9	8.2	3.7	2.2	1.5	0.0	0.0	0.0	0.0
82.5°	26.8	12.6	5.2	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	7.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	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)