

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: P383094

Luminaire Tested: **GAN-SA4B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383094
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-SA4B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15648.1 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

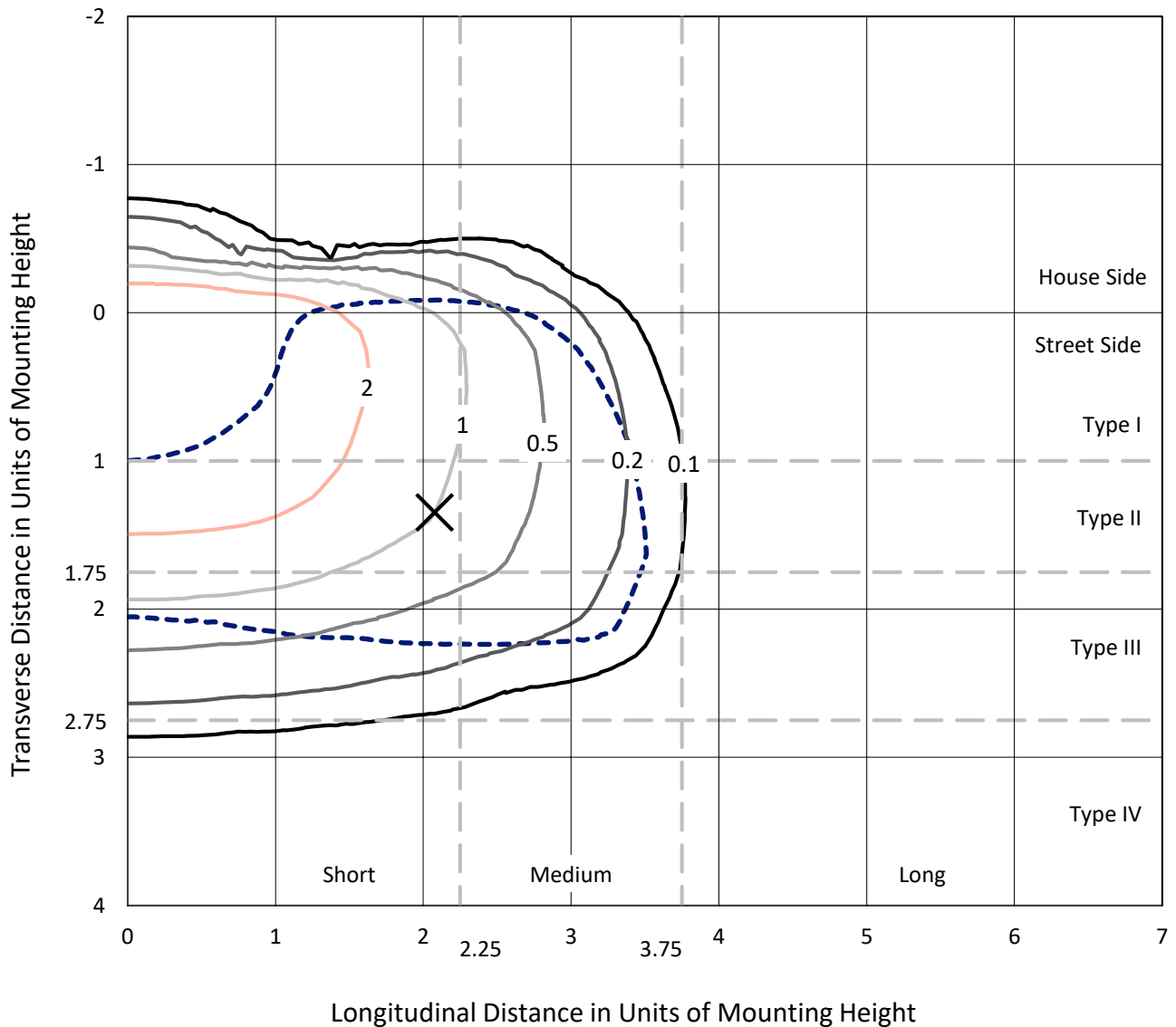
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

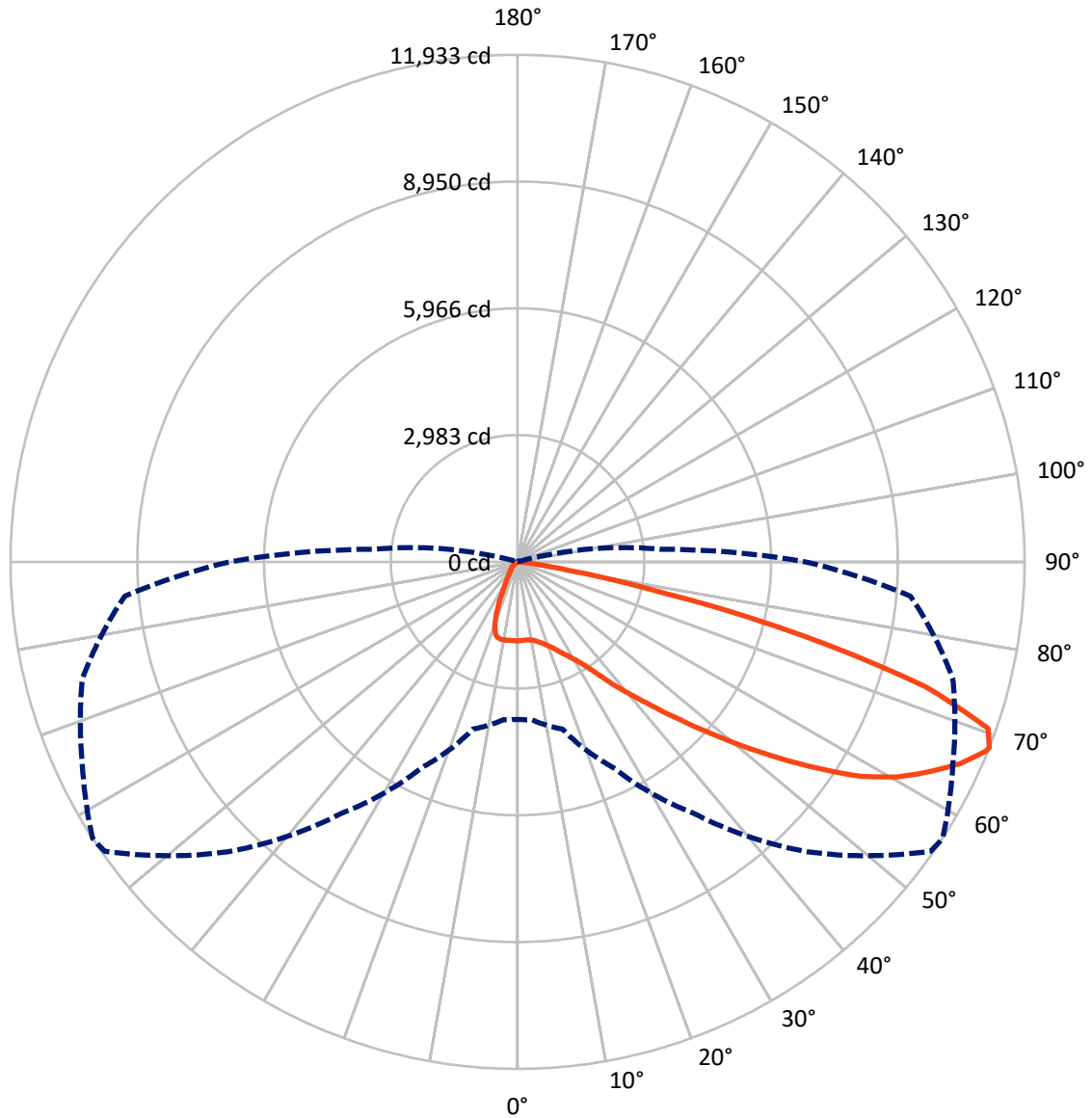
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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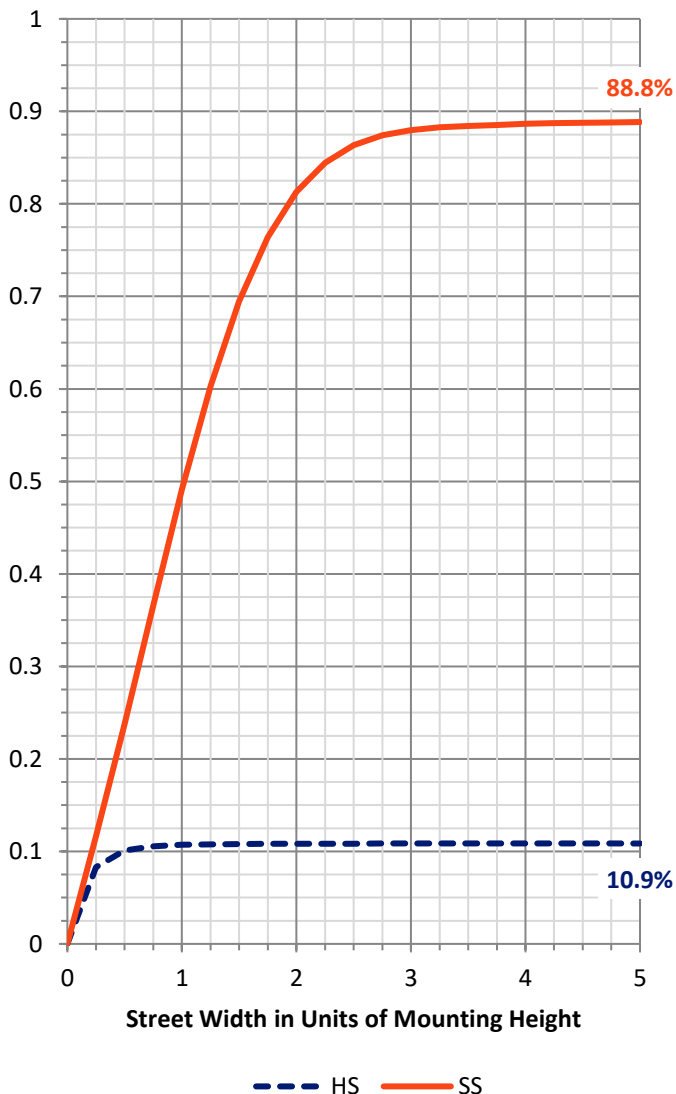
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1715.9	0.0	1715.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	13932.2	0.0	13932.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	15648.1	0.0	15648.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	1.1
10°-20°	482.2	3.1
20°-30°	831.8	5.3
30°-40°	1435.7	9.2
40°-50°	2455.8	15.7
50°-60°	3929.1	25.1
60°-70°	4539.7	29.0
70°-80°	1734.7	11.1
80°-90°	65.0	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°	15648.1	100.0
0°-180°	15648.1	100.0

Coefficient of Utilization



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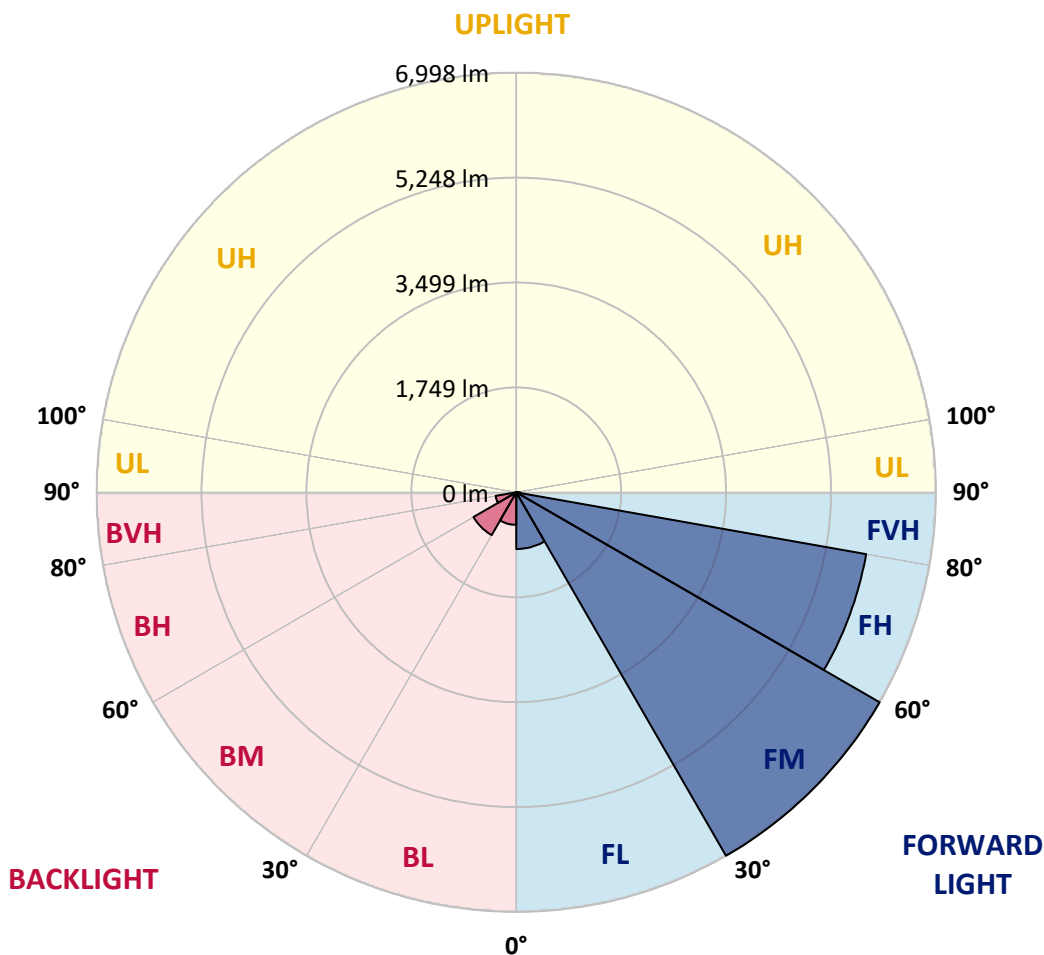
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.8	6.0			
FM (30°-60°)	6997.7	44.7			
FH (60°-80°)	5924.9	37.9			G3/7500
FVH (80°-90°)	63.8	0.4			G1/100
BL (0°-30°)	542.3	3.5	B2/1000		
BM (30°-60°)	823.0	5.3	B1/1000		
BH (60°-80°)	349.5	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°	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4
2.5°	1815.8	1823.9	1829.8	1833.5	1837.9	1847.5	1850.5	1855.0	1857.2	1857.2	1862.3
5°	1744.0	1752.9	1765.5	1775.8	1796.5	1823.1	1842.4	1849.8	1863.1	1874.9	1881.6
7.5°	1677.4	1687.8	1702.6	1727.0	1762.5	1805.4	1845.4	1855.7	1881.6	1906.8	1919.4
10°	1634.5	1642.6	1661.9	1696.6	1743.2	1803.2	1859.4	1871.9	1916.4	1958.6	1982.2
12.5°	1619.7	1627.0	1647.1	1686.3	1744.0	1814.3	1892.0	1910.5	1975.5	2037.0	2070.3
15°	1641.1	1642.6	1664.1	1701.1	1758.0	1841.7	1946.0	1968.2	2050.3	2130.3	2171.6
17.5°	1724.0	1717.3	1728.5	1744.7	1789.9	1877.9	2002.9	2036.3	2145.7	2239.7	2278.9
20°	1931.2	1931.2	1906.0	1861.6	1862.3	1934.2	2079.9	2117.7	2251.6	2360.4	2395.8
22.5°	2285.6	2278.9	2228.6	2119.8	2020.0	2031.1	2173.9	2222.7	2378.8	2495.0	2506.8
25°	2711.8	2703.6	2625.9	2472.8	2299.6	2187.9	2301.1	2357.4	2530.5	2633.4	2609.0
27.5°	3163.2	3156.5	3079.5	2889.4	2643.0	2438.0	2452.9	2506.1	2685.2	2786.5	2708.8
30°	3600.4	3602.7	3526.5	3331.1	3052.1	2756.9	2645.2	2676.2	2835.4	2938.2	2827.2
32.5°	4016.3	4019.3	3953.4	3735.1	3474.7	3127.7	2911.6	2903.4	3010.0	3111.4	2984.1
35°	4386.9	4394.4	4349.2	4179.8	3903.8	3540.5	3257.2	3237.9	3257.8	3372.6	3224.6
37.5°	4744.4	4748.8	4714.7	4571.9	4341.1	3994.1	3693.7	3666.3	3623.3	3711.4	3542.0
40°	5135.8	5124.6	5085.4	4955.9	4757.7	4495.0	4162.8	4115.4	4040.7	4119.1	3959.3
42.5°	5499.8	5487.2	5493.9	5347.4	5180.1	5010.0	4709.5	4628.2	4584.5	4674.8	4471.3
45°	5954.8	5948.2	5970.4	5843.1	5707.7	5584.2	5336.3	5247.5	5228.2	5334.0	5090.6
47.5°	6404.0	6420.2	6489.1	6435.0	6380.3	6271.6	6000.0	5960.0	5971.9	6099.9	5744.0
50°	6778.4	6797.6	6986.3	7048.5	7127.6	7064.0	6791.7	6767.3	6813.9	6929.3	6446.9
52.5°	7049.2	7088.4	7323.0	7609.3	7897.8	7940.8	7669.2	7647.1	7710.0	7727.7	6990.0
55°	7237.1	7271.9	7537.5	8061.4	8648.9	8833.9	8665.2	8579.4	8567.5	8392.1	7561.2
57.5°	7270.4	7266.7	7648.6	8353.7	9237.9	9715.1	9608.5	9524.2	9281.5	9006.3	8216.1
60°	7082.5	7104.0	7547.1	8455.0	9607.8	10381.8	10389.9	10280.4	9902.4	9603.4	8850.9
62.5°	6503.9	6591.2	7038.9	8189.4	9603.4	10650.4	10962.6	10879.0	10426.9	10092.5	9494.6
65°	5565.6	5596.7	6023.7	7279.3	8954.5	10537.9	11478.3	11447.2	10899.8	10567.5	9825.3
67.5°	4064.3	3997.0	4445.4	5732.1	7581.2	9882.3	11848.3	11887.5	11264.5	10665.2	9473.2
68°	3709.2	3729.2	4078.4	5349.6	7221.5	9650.7	11872.7	11932.7	11300.8	10601.6	9280.8
70°	2210.8	2249.3	2560.8	3683.3	5493.9	8340.3	11609.3	11746.2	11084.7	9945.2	8027.3
72.5°	564.5	610.4	904.9	1648.6	3138.0	5876.4	9800.2	10031.8	9624.1	8068.0	5419.2
75°	232.3	244.2	323.3	543.1	1169.1	2647.5	6459.4	6955.2	6671.8	4830.2	2449.1
77.5°	160.6	168.7	207.9	301.2	506.1	897.5	3166.9	3525.0	3175.7	1648.6	534.2
80°	115.4	122.1	148.8	200.6	290.8	320.4	1032.2	1193.5	947.8	361.8	132.5
82.5°	68.8	74.0	110.9	142.8	176.8	153.1	256.7	291.5	274.5	179.8	59.2
85°	34.0	40.0	74.7	102.1	95.5	64.4	78.4	87.3	108.1	109.5	31.9
87.5°	2.2	4.5	43.7	61.4	26.6	14.8	22.9	28.1	38.5	54.0	13.3
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°	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4	1859.4
2.5°	1864.6	1865.3	1860.1	1858.0	1859.4	1850.5	1846.8	1848.3	1848.3	1850.5	1846.8
5°	1883.1	1883.1	1874.2	1862.3	1855.7	1838.7	1827.6	1824.6	1822.4	1820.9	1818.0
7.5°	1923.1	1918.6	1903.1	1877.2	1855.0	1818.0	1789.9	1775.1	1767.7	1764.7	1762.5
10°	1987.5	1979.3	1953.4	1905.3	1854.2	1788.4	1727.0	1683.3	1647.1	1632.3	1623.4
12.5°	2074.0	2062.2	2018.5	1938.6	1849.0	1727.7	1594.5	1466.5	1347.4	1298.6	1274.2
15°	2173.9	2156.8	2088.1	1966.7	1818.8	1590.8	1301.6	1077.3	912.4	850.1	823.5
17.5°	2275.2	2253.0	2148.7	1984.5	1727.7	1307.4	913.1	689.6	579.3	549.8	539.4
20°	2377.3	2344.8	2201.2	1971.2	1522.1	942.6	602.3	503.9	472.1	463.2	460.2
22.5°	2474.3	2424.0	2248.6	1919.4	1205.3	632.6	476.5	445.5	435.0	429.9	428.4
25°	2558.6	2488.3	2290.0	1759.5	853.1	478.0	429.2	418.8	405.5	395.8	396.6
27.5°	2637.8	2552.7	2315.2	1496.1	569.0	408.4	397.3	383.2	358.8	344.8	344.8
30°	2733.3	2638.5	2333.7	1151.3	418.8	361.1	352.2	330.7	297.4	278.9	278.9
32.5°	2876.8	2768.7	2321.9	808.0	347.0	317.4	296.7	267.1	230.8	213.1	212.4
35°	3096.6	2970.1	2237.5	529.8	306.3	276.0	242.7	206.4	174.7	159.9	159.1
37.5°	3392.5	3239.4	2048.1	378.9	274.5	237.5	197.6	157.6	134.0	124.3	123.5
40°	3776.5	3552.4	1777.3	307.0	244.9	200.6	152.4	122.1	105.8	98.4	99.1
42.5°	4237.5	3887.5	1452.5	264.9	216.0	165.0	119.1	96.2	85.8	80.7	79.2
45°	4749.5	4218.2	1112.1	236.1	187.2	133.2	93.2	76.2	68.1	65.1	65.1
47.5°	5312.6	4540.2	813.9	210.9	156.1	102.8	74.7	62.1	55.5	53.3	52.5
50°	5823.8	4763.6	586.8	184.3	128.0	81.4	60.6	51.8	47.3	44.4	44.4
52.5°	6250.0	4833.9	432.1	155.4	103.6	65.1	50.3	44.4	40.0	37.7	37.7
55°	6625.3	4805.0	321.1	128.0	83.7	53.3	42.9	37.7	34.0	31.9	31.9
57.5°	6984.8	4711.8	239.7	104.3	67.4	42.9	36.2	31.9	28.1	26.6	26.6
60°	7278.6	4556.4	178.3	84.3	54.0	34.7	30.4	25.9	22.9	20.7	20.7
62.5°	7516.8	4384.7	131.0	69.6	42.9	27.4	23.7	21.4	17.0	14.8	14.8
65°	7518.3	4099.8	98.4	57.8	33.3	21.4	17.8	17.0	11.1	8.8	8.1
67.5°	6974.5	3534.6	75.5	49.6	25.9	16.3	13.3	14.1	6.0	3.7	3.0
68°	6776.9	3391.0	71.1	48.8	24.4	15.6	12.6	14.1	5.2	3.0	2.2
70°	5713.6	2697.8	57.0	47.3	21.4	11.8	10.3	14.1	4.5	2.2	1.5
72.5°	3654.5	1565.7	42.2	37.7	16.3	8.8	6.6	12.6	4.5	1.5	0.7
75°	1555.3	485.4	28.9	26.6	9.6	6.6	4.5	8.1	3.0	0.7	0.0
77.5°	327.8	109.5	17.0	16.3	6.6	4.5	3.0	2.2	0.7	0.0	0.0
80°	84.3	31.9	8.8	8.1	3.7	2.2	1.5	0.0	0.0	0.0	0.0
82.5°	26.6	12.6	5.2	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	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)