

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: P191739

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5596 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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: 28.75 FT

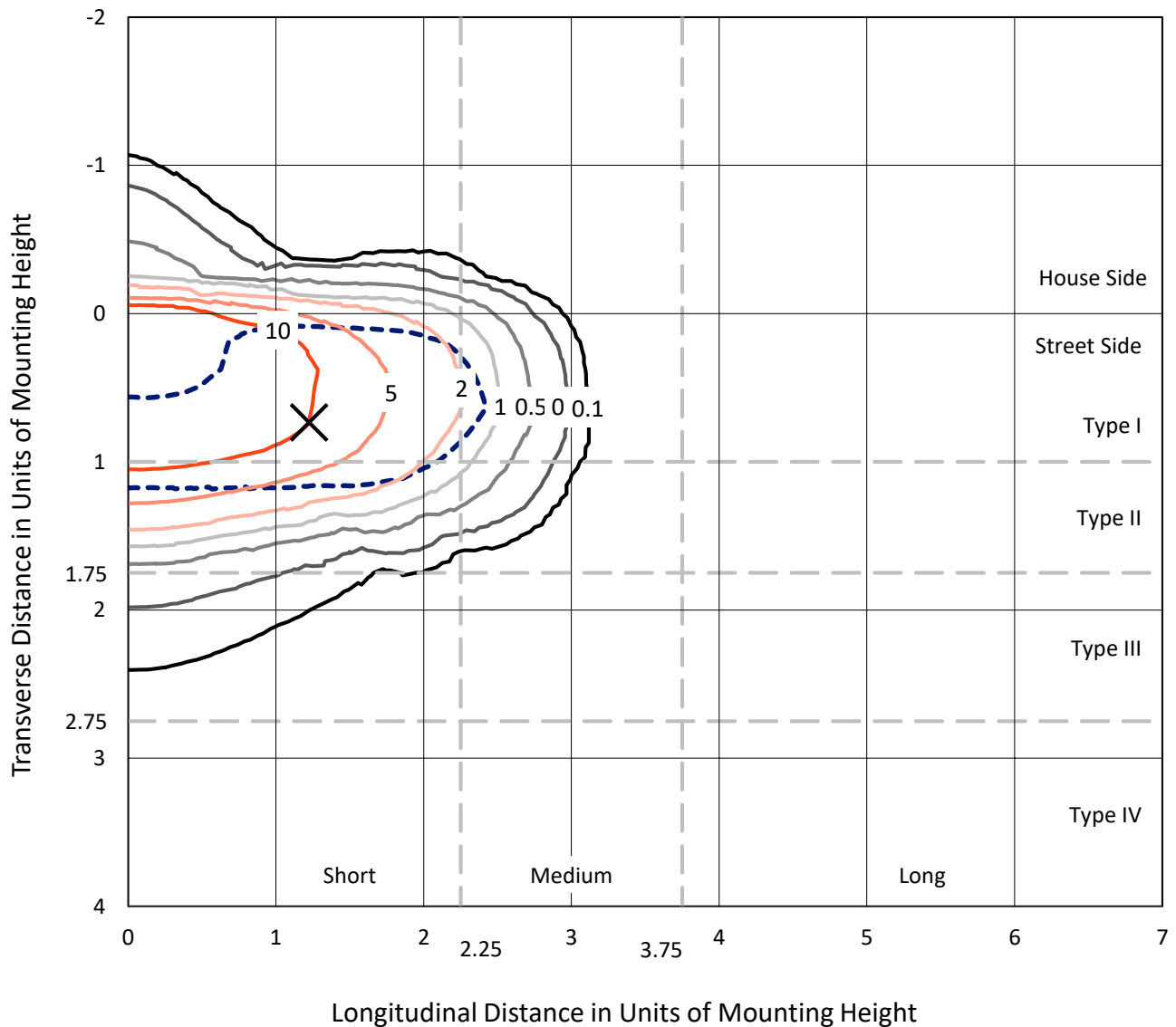


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

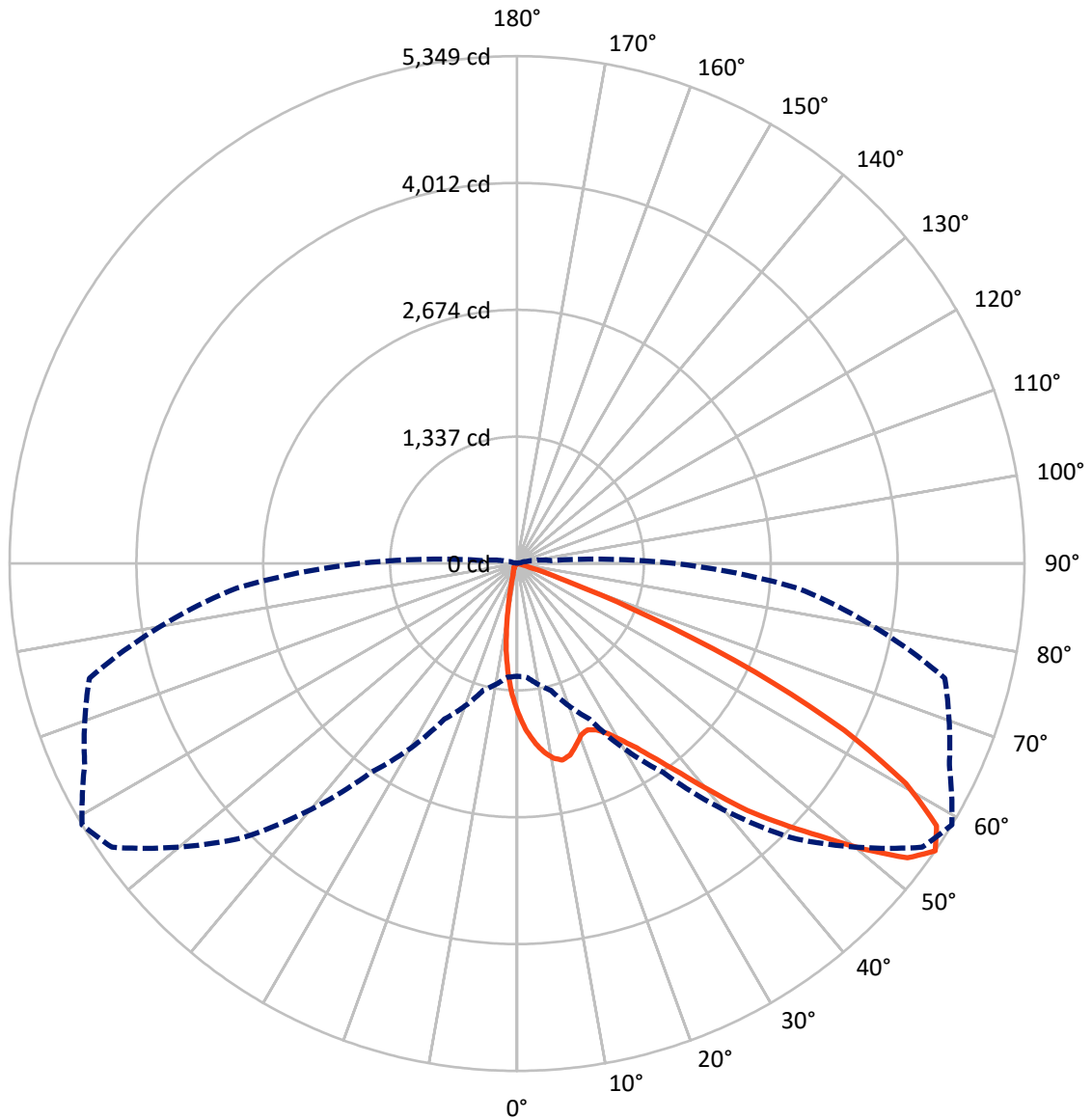


Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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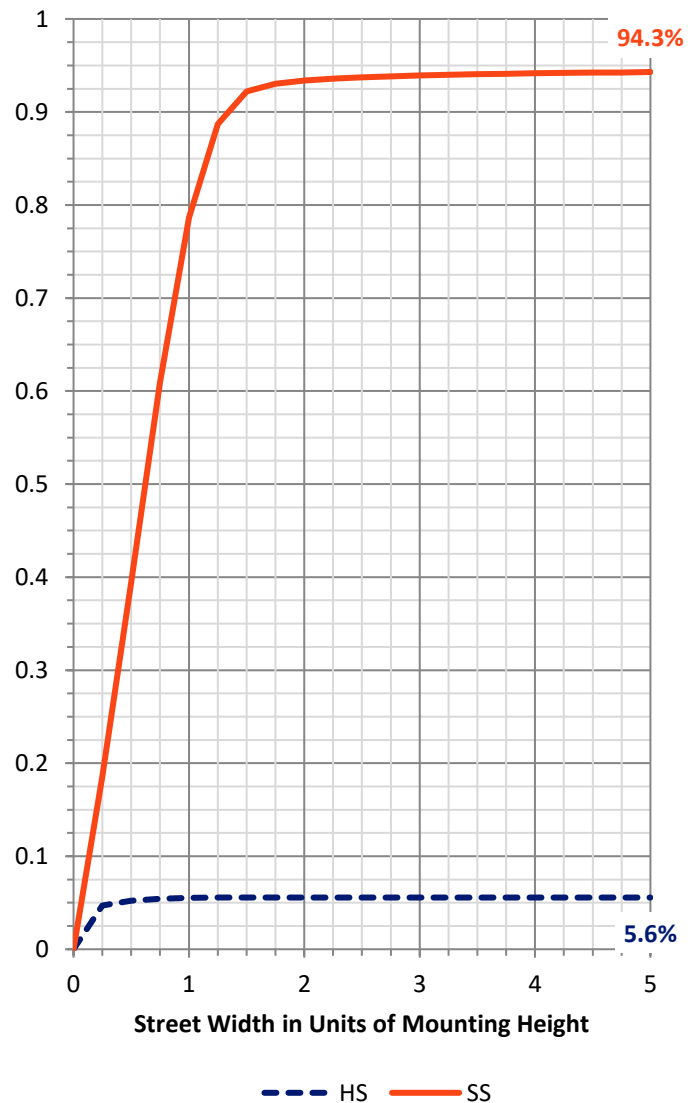
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	312.6	0.0	312.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5283.4	0.0	5283.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	5596.0	0.0	5596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	2.4
10°-20°	315.9	5.6
20°-30°	537.6	9.6
30°-40°	924.5	16.5
40°-50°	1427.3	25.5
50°-60°	1434.9	25.6
60°-70°	735.8	13.1
70°-80°	79.7	1.4
80°-90°	8.3	0.1
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°	5596.0	100.0
0°-180°	5596.0	100.0

Coefficient of Utilization



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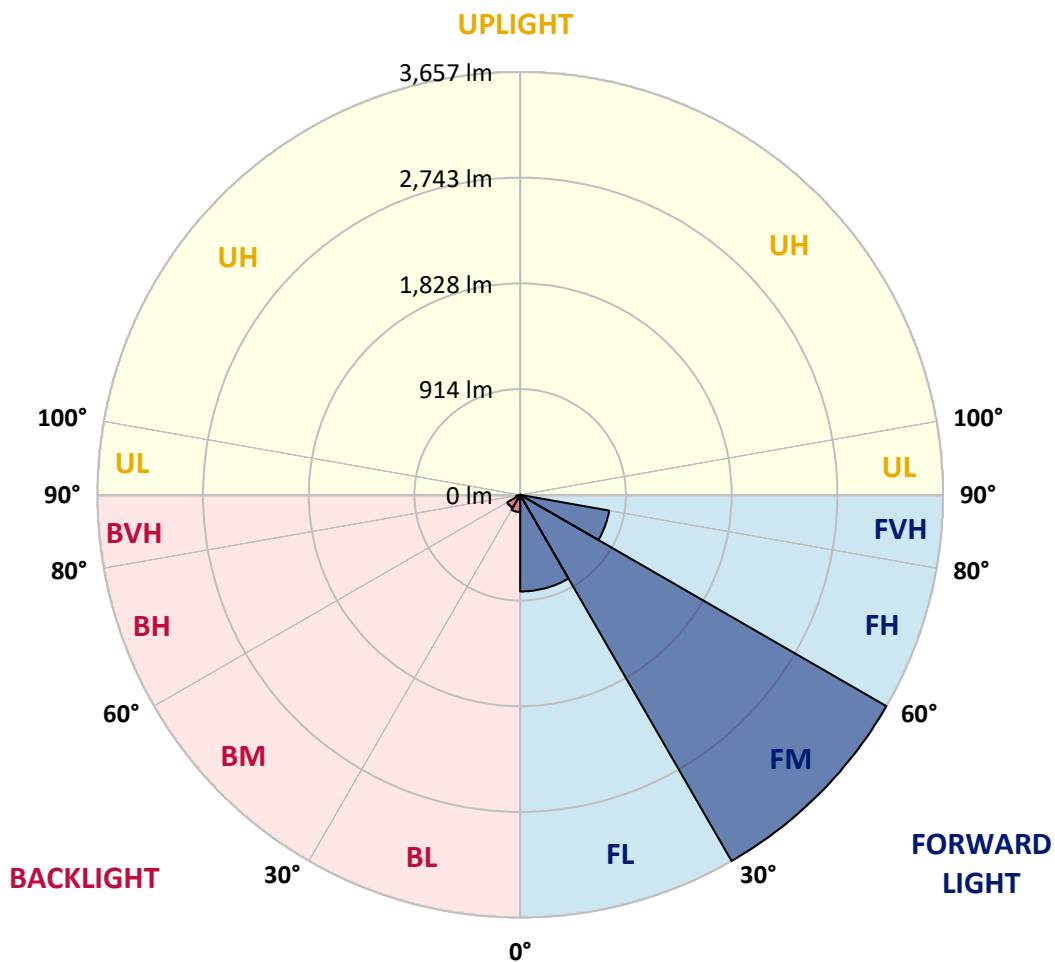
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.2	14.9			
FM	(30°-60°)	3657.0	65.3			
FH	(60°-80°)	782.1	14.0			G1/1800
FVH	(80°-90°)	8.2	0.1			G0/10
BL	(0°-30°)	149.2	2.7	B1/500		
BM	(30°-60°)	129.7	2.3	B0/220		
BH	(60°-80°)	33.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3
2.5°	1863.9	1844.1	1838.1	1834.2	1816.0	1793.2	1762.2	1747.6	1717.9	1670.0	1611.3
5°	2034.6	2031.0	2017.8	2010.5	1991.0	1958.7	1909.1	1885.4	1838.1	1757.5	1652.2
7.5°	1960.0	1982.8	2000.9	2031.3	2069.6	2068.3	2026.7	2001.9	1949.1	1842.7	1697.8
10°	1671.7	1690.2	1719.9	1788.9	1929.6	2053.8	2102.7	2084.8	2042.5	1921.0	1741.7
12.5°	1615.2	1613.2	1618.5	1638.7	1712.3	1889.3	2089.8	2125.8	2117.2	1992.7	1783.3
15°	1645.3	1643.0	1642.3	1649.2	1667.1	1741.7	1993.0	2096.4	2162.8	2059.1	1818.6
17.5°	1729.5	1719.6	1714.3	1708.7	1703.4	1721.9	1876.8	2014.1	2169.7	2117.2	1848.0
20°	1873.8	1857.3	1837.8	1806.1	1776.4	1767.1	1827.9	1929.6	2144.9	2161.4	1867.2
22.5°	2055.1	2034.0	2000.3	1942.5	1882.0	1847.0	1852.0	1902.9	2107.9	2209.6	1876.1
25°	2258.9	2231.8	2186.9	2106.6	2017.8	1955.7	1923.3	1941.2	2091.1	2266.1	1886.3
27.5°	2477.1	2447.1	2388.3	2279.0	2178.3	2094.4	2028.3	2026.0	2119.8	2340.1	1902.9
30°	2693.5	2688.8	2612.2	2496.6	2363.2	2261.2	2166.1	2153.8	2200.1	2442.5	1935.5
32.5°	2982.1	2947.4	2853.6	2734.7	2580.8	2458.3	2345.7	2317.3	2323.3	2561.7	1986.1
35°	3346.0	3308.0	3175.9	3011.8	2839.7	2695.1	2570.6	2532.0	2517.4	2756.9	2071.3
37.5°	3581.1	3580.5	3497.6	3330.5	3145.9	2986.4	2851.0	2805.7	2776.3	2992.7	2203.4
40°	3587.4	3602.9	3613.8	3612.2	3480.7	3333.8	3213.6	3157.8	3089.4	3307.7	2374.1
42.5°	3394.9	3434.8	3530.9	3694.1	3772.0	3713.6	3612.2	3557.4	3455.7	3644.9	2582.2
45°	3134.7	3162.4	3330.5	3631.0	3929.9	4090.0	4012.8	3914.7	3780.6	3996.6	2768.7
47.5°	3018.1	3023.0	3131.7	3461.6	3941.8	4398.5	4445.4	4285.9	4075.8	4279.9	2914.7
50°	2669.7	2678.6	2828.5	3168.0	3802.4	4544.1	4880.0	4728.7	4397.8	4498.2	2967.9
52.5°	2012.2	2024.7	2214.9	2685.5	3419.3	4482.0	5191.1	5154.4	4750.5	4604.9	2970.9
55°	1187.2	1203.7	1385.4	1807.7	2689.5	4087.1	5214.2	5348.9	5028.9	4668.0	2966.2
57.5°	554.5	566.0	670.1	931.3	1672.7	3230.1	4866.1	5215.5	5182.5	4701.3	2998.9
60°	294.6	297.9	323.0	403.2	755.9	2048.2	4186.8	4709.6	5042.5	4747.6	3038.9
62.5°	225.2	226.2	224.9	234.5	317.7	909.2	3164.7	3871.8	4478.7	4712.9	2994.6
65°	195.2	196.8	187.6	185.3	203.8	324.3	1880.1	2759.8	3519.4	4244.9	2693.1
67.5°	175.0	175.7	164.5	154.9	158.2	175.4	741.7	1510.9	2329.5	3111.5	1952.1
70°	161.2	160.5	148.3	133.1	128.8	119.9	235.8	553.8	1113.2	1577.9	907.8
72.5°	142.7	143.0	137.1	117.2	107.0	83.9	109.3	161.5	332.2	430.0	212.7
75°	126.5	124.8	117.6	105.0	88.2	55.2	54.2	72.0	102.4	101.7	45.9
77.5°	91.5	89.8	92.1	86.2	67.7	35.7	27.1	34.7	41.6	40.3	12.9
80°	67.0	66.0	59.4	71.7	59.8	24.4	16.8	18.5	21.5	18.2	4.0
82.5°	45.9	45.6	41.9	39.6	34.0	14.9	10.6	11.6	13.9	10.2	2.0
85°	7.3	8.3	30.4	24.1	20.1	6.6	7.3	7.9	9.2	5.6	0.7
87.5°	0.0	0.0	14.2	12.5	4.0	2.6	4.3	4.6	4.6	3.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3	1575.3
2.5°	1581.2	1548.2	1487.1	1424.0	1365.6	1295.9	1248.0	1212.0	1170.4	1159.1	1183.6
5°	1592.1	1529.7	1398.2	1255.2	1120.8	971.9	858.0	767.8	686.2	658.5	683.6
7.5°	1609.3	1516.5	1302.1	1066.7	832.9	600.4	441.2	336.5	269.8	250.0	260.6
10°	1626.4	1497.3	1190.9	843.4	523.8	292.3	190.2	151.9	137.7	134.7	136.4
12.5°	1640.6	1471.6	1055.1	599.7	280.0	156.5	124.5	118.2	116.2	116.2	116.9
15°	1649.2	1432.6	894.3	381.4	161.2	118.2	108.6	106.7	106.7	107.0	107.7
17.5°	1648.2	1383.1	718.3	230.8	120.5	104.7	99.1	97.4	97.1	97.8	98.1
20°	1636.0	1318.3	541.6	152.2	105.0	95.4	89.8	86.9	86.5	87.2	87.8
22.5°	1612.9	1238.4	387.4	117.2	94.8	86.5	79.6	76.9	76.9	77.6	78.3
25°	1584.8	1140.7	264.9	99.4	85.5	76.9	70.3	68.0	68.7	70.3	70.7
27.5°	1549.8	1030.7	180.0	85.2	74.3	67.4	62.4	60.8	62.4	64.7	65.4
30°	1519.8	916.1	128.5	73.6	63.1	58.1	55.2	55.2	57.5	61.8	62.7
32.5°	1496.7	805.1	99.1	65.1	54.8	50.5	48.9	50.5	54.2	58.5	59.4
35°	1493.7	713.7	83.9	58.1	48.9	44.6	43.9	46.9	50.5	53.8	54.5
37.5°	1516.5	629.1	75.6	52.5	43.6	39.6	39.0	42.6	46.2	50.2	51.2
40°	1559.7	562.7	69.7	47.2	39.3	35.0	33.7	36.3	41.3	46.6	47.9
42.5°	1615.9	507.9	63.1	41.9	35.0	29.1	27.4	30.4	35.7	41.3	42.9
45°	1669.4	460.7	55.8	36.0	29.4	22.5	21.8	25.8	28.4	34.0	35.3
47.5°	1698.8	419.1	49.5	29.4	22.8	18.2	18.2	19.2	21.8	28.4	29.7
50°	1688.9	385.7	42.9	21.8	15.9	13.9	13.9	13.5	17.5	22.8	23.8
52.5°	1669.0	366.6	37.0	16.8	10.9	9.9	8.9	9.9	12.2	14.5	14.9
55°	1666.1	363.3	31.0	13.5	7.6	6.6	5.0	5.0	5.0	4.6	4.0
57.5°	1689.2	368.5	26.1	10.9	5.6	4.3	2.6	0.0	0.0	0.0	0.0
60°	1713.0	374.2	22.5	7.6	4.0	2.3	0.3	0.0	0.0	0.0	0.0
62.5°	1673.3	361.6	18.8	4.6	3.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	1469.9	307.8	14.9	3.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1045.5	206.1	9.9	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	477.2	86.2	6.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	102.0	26.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.8	19.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)