

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: P268255

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268255
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-02-LED-U-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES 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: 5707.3 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

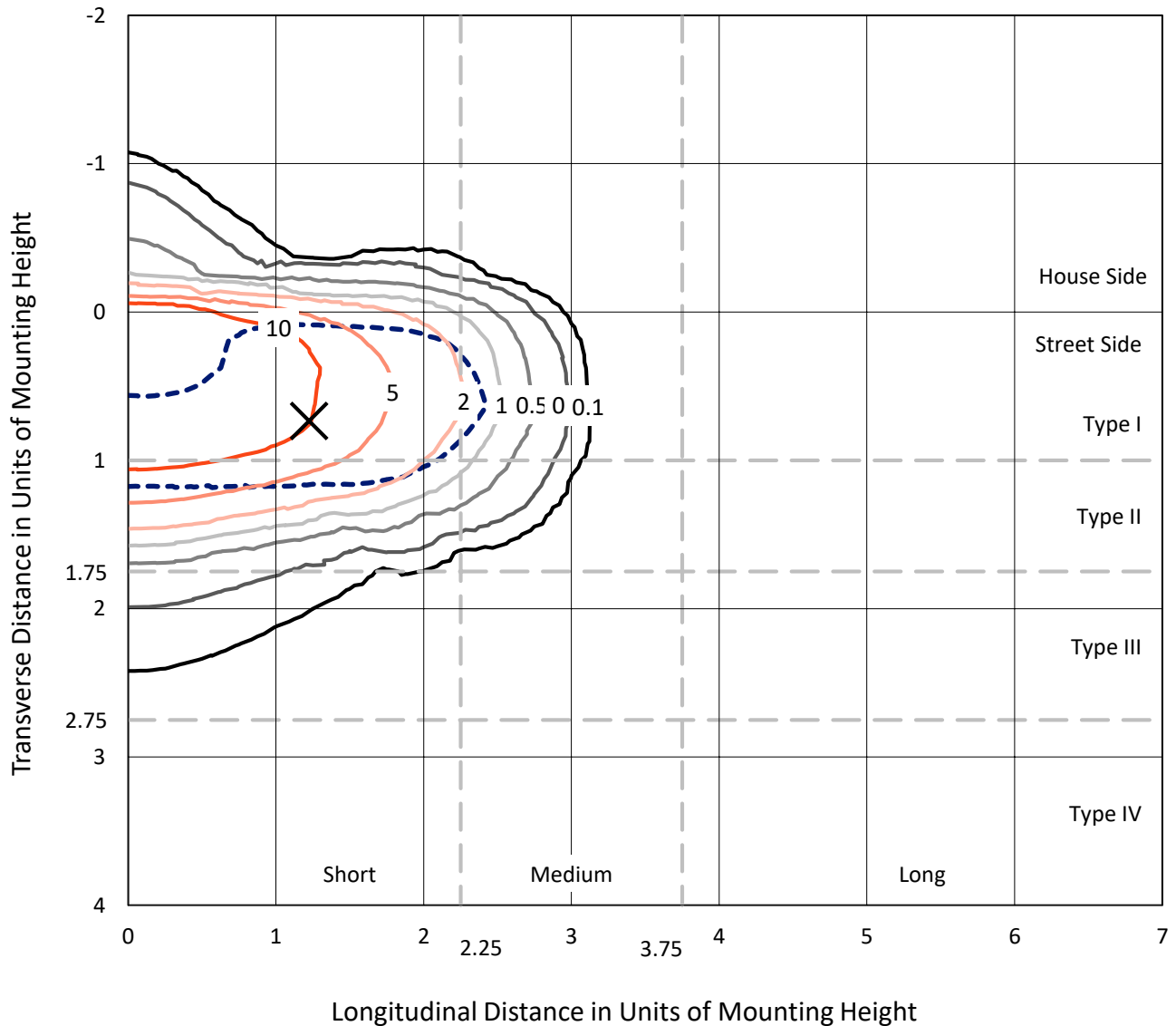


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

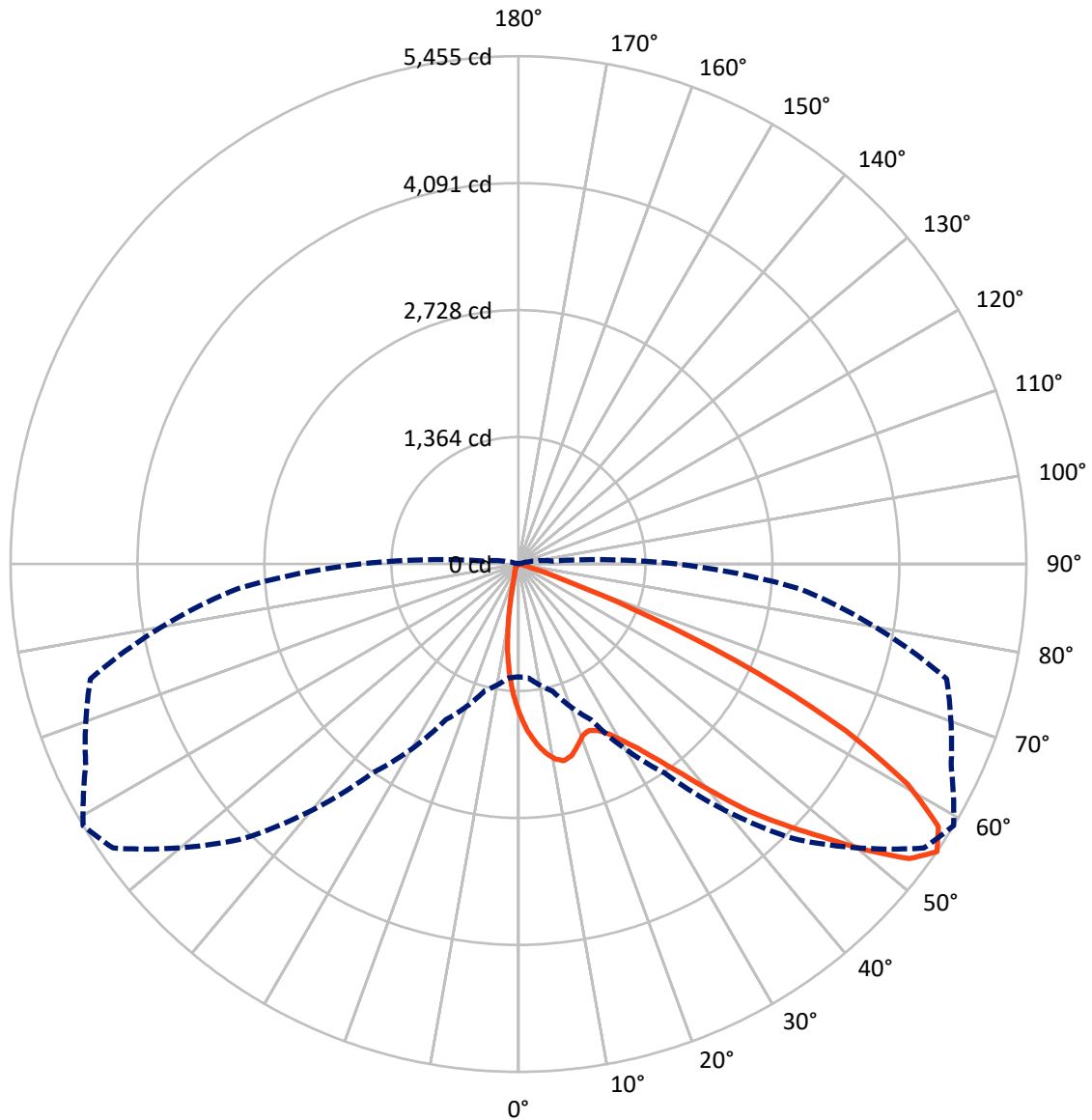


Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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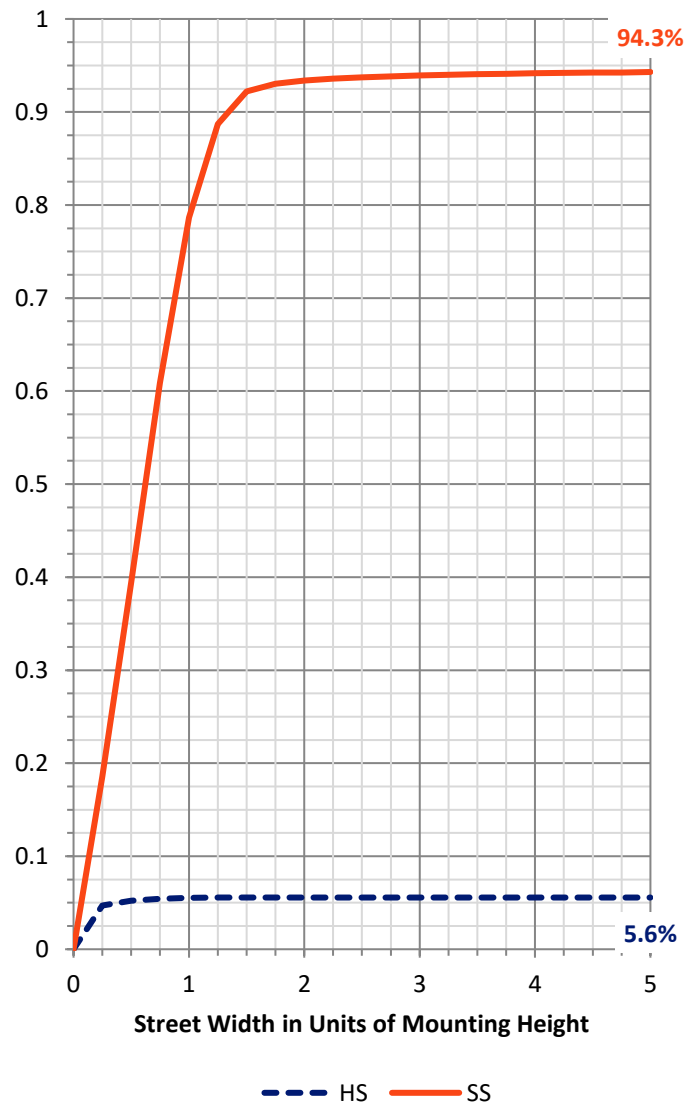
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	318.8	0.0	318.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5388.5	0.0	5388.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	5707.3	0.0	5707.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.4
10°-20°	322.2	5.6
20°-30°	548.3	9.6
30°-40°	942.9	16.5
40°-50°	1455.7	25.5
50°-60°	1463.4	25.6
60°-70°	750.5	13.1
70°-80°	81.3	1.4
80°-90°	8.5	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°	5707.3	100.0
0°-180°	5707.3	100.0

Coefficient of Utilization



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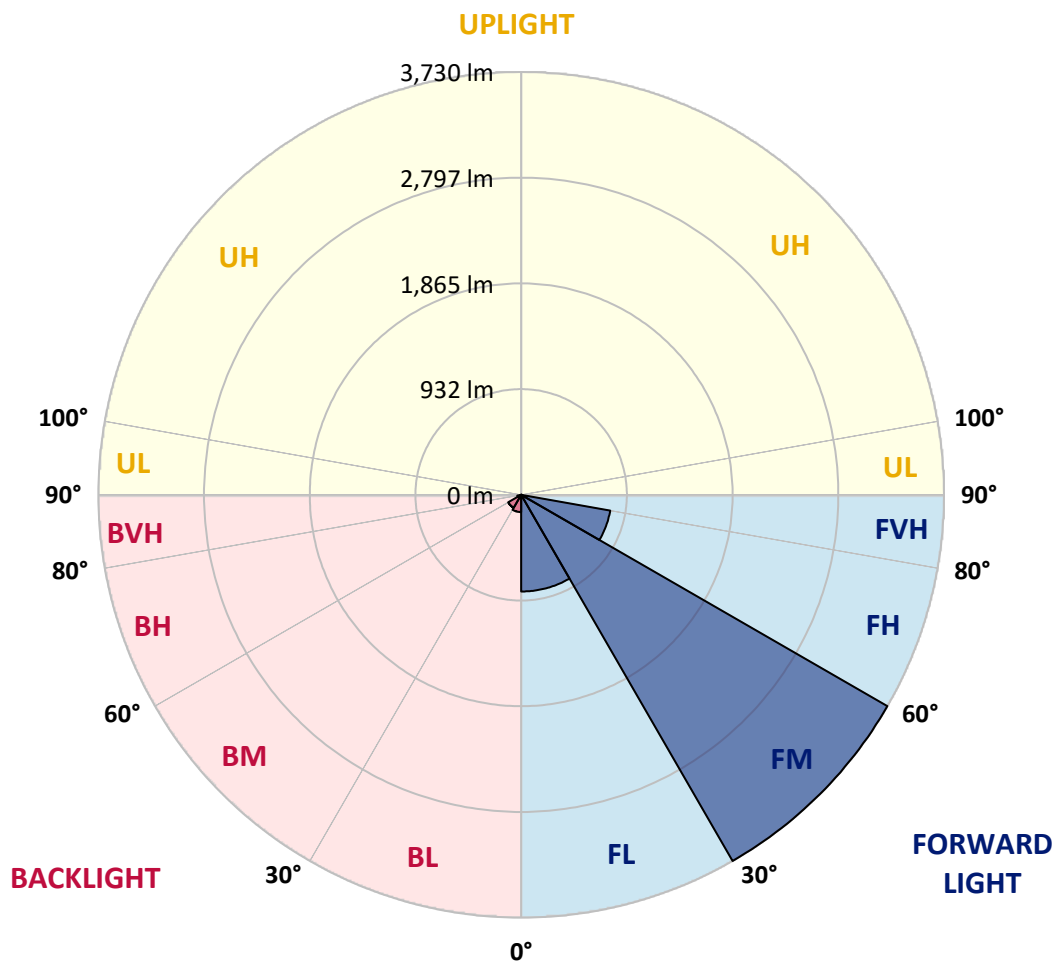
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.9	14.9			
FM (30°-60°)	3729.7	65.3			
FH (60°-80°)	797.6	14.0			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	152.2	2.7	B1/500		
BM (30°-60°)	132.3	2.3	B0/220		
BH (60°-80°)	34.2	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1901.0	1880.7	1874.8	1870.6	1852.1	1828.9	1797.1	1782.3	1752.1	1703.2	1643.3
5°	2075.1	2071.4	2057.8	2050.6	2030.6	1997.7	1947.0	1922.8	1874.8	1792.5	1685.1
7.5°	1999.0	2022.3	2040.7	2071.8	2110.7	2109.4	2067.0	2041.8	1987.9	1879.4	1731.6
10°	1705.0	1723.8	1754.1	1824.5	1967.9	2094.6	2144.4	2126.3	2083.2	1959.3	1776.4
12.5°	1647.3	1645.3	1650.7	1671.2	1746.3	1927.0	2131.4	2168.1	2159.3	2032.3	1818.8
15°	1678.0	1675.7	1675.0	1682.0	1700.2	1776.4	2032.7	2138.1	2205.8	2100.0	1854.8
17.5°	1763.9	1753.9	1748.5	1742.6	1737.2	1756.1	1914.1	2054.2	2212.9	2159.3	1884.9
20°	1911.1	1894.3	1874.4	1842.1	1811.7	1802.3	1864.3	1967.9	2187.6	2204.4	1904.3
22.5°	2095.9	2074.5	2040.1	1981.1	1919.5	1883.7	1888.9	1940.7	2149.9	2253.6	1913.4
25°	2303.9	2276.1	2230.3	2148.6	2057.8	1994.5	1961.5	1979.8	2132.7	2311.2	1923.9
27.5°	2526.5	2495.9	2435.8	2324.4	2221.6	2136.1	2068.6	2066.3	2162.0	2386.6	1940.7
30°	2747.0	2742.3	2664.2	2546.2	2410.2	2306.2	2209.1	2196.6	2243.8	2491.1	1974.0
32.5°	3041.4	3006.1	2910.4	2789.1	2632.2	2507.2	2392.4	2363.4	2369.5	2612.6	2025.6
35°	3412.7	3373.9	3239.1	3071.8	2896.2	2748.8	2621.8	2582.4	2567.5	2811.7	2112.5
37.5°	3652.4	3651.7	3567.2	3396.8	3208.4	3045.8	2907.8	2861.6	2831.5	3052.3	2247.2
40°	3658.7	3674.5	3685.7	3683.9	3550.0	3400.2	3277.5	3220.7	3150.9	3373.4	2421.3
42.5°	3462.3	3503.2	3601.1	3767.6	3847.0	3787.4	3683.9	3628.2	3524.4	3717.4	2633.6
45°	3197.0	3225.4	3396.8	3703.3	4008.1	4171.4	4092.6	3992.5	3855.9	4076.1	2823.8
47.5°	3078.1	3083.2	3194.0	3530.5	4020.2	4486.0	4533.8	4371.2	4156.9	4365.0	2972.8
50°	2722.9	2731.8	2884.7	3231.1	3878.1	4634.5	4977.1	4822.8	4485.2	4587.7	3026.8
52.5°	2052.2	2065.1	2259.0	2738.9	3487.3	4571.1	5294.3	5256.9	4845.0	4696.5	3030.0
55°	1210.8	1227.7	1412.9	1843.7	2743.0	4168.3	5317.8	5455.3	5129.0	4760.8	3025.2
57.5°	565.6	577.3	683.4	949.8	1705.9	3294.4	4963.0	5319.3	5285.5	4794.9	3058.5
60°	300.5	303.7	329.4	411.2	770.9	2088.9	4270.2	4803.2	5142.7	4842.0	3099.3
62.5°	229.6	230.8	229.3	239.0	324.0	927.2	3227.7	3948.8	4567.8	4806.7	3054.1
65°	199.1	200.7	191.2	189.0	207.8	330.8	1917.4	2814.7	3589.4	4329.4	2746.7
67.5°	178.6	179.2	167.8	157.9	161.3	178.9	756.6	1541.0	2375.8	3173.4	1991.0
70°	164.4	163.8	151.3	135.7	131.3	122.3	240.4	564.9	1135.4	1609.3	926.0
72.5°	145.4	145.9	139.7	119.6	109.1	85.6	111.5	164.7	338.8	438.6	216.9
75°	128.9	127.3	120.0	107.1	89.9	56.2	55.2	73.4	104.5	103.8	46.8
77.5°	93.3	91.5	94.0	87.9	69.0	36.4	27.6	35.4	42.4	41.1	13.1
80°	68.5	67.4	60.6	73.1	60.9	25.0	17.2	18.9	21.9	18.5	4.0
82.5°	46.8	46.5	42.8	40.5	34.7	15.1	10.8	11.8	14.2	10.4	2.1
85°	7.4	8.4	31.0	24.7	20.5	6.7	7.4	8.1	9.4	5.7	0.7
87.5°	0.0	0.0	14.6	12.8	4.0	2.6	4.4	4.8	4.8	3.1	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°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
2.5°	1612.6	1579.0	1516.7	1452.3	1392.7	1321.6	1272.8	1236.1	1193.7	1182.2	1207.1
5°	1623.7	1560.0	1426.1	1280.3	1143.2	991.2	874.9	783.1	699.9	671.7	697.3
7.5°	1641.3	1546.6	1328.1	1087.8	849.4	612.4	450.1	343.2	275.2	254.9	265.8
10°	1658.8	1527.1	1214.6	860.1	534.2	298.1	194.0	155.0	140.4	137.4	139.1
12.5°	1673.3	1500.8	1076.1	611.7	285.7	159.7	127.0	120.6	118.5	118.5	119.3
15°	1682.0	1461.2	912.0	389.1	164.4	120.6	110.9	108.8	108.8	109.1	109.9
17.5°	1681.0	1410.6	732.6	235.4	123.0	106.8	101.0	99.4	99.1	99.7	100.0
20°	1668.5	1344.6	552.4	155.2	107.1	97.3	91.5	88.7	88.3	88.9	89.7
22.5°	1644.9	1263.0	395.1	119.6	96.7	88.3	81.1	78.5	78.5	79.1	79.8
25°	1616.4	1163.3	270.1	101.4	87.2	78.5	71.8	69.3	70.1	71.8	72.0
27.5°	1580.7	1051.1	183.6	86.9	75.7	68.7	63.7	62.0	63.7	66.0	66.7
30°	1549.9	934.2	131.1	75.1	64.3	59.3	56.2	56.2	58.6	63.1	64.0
32.5°	1526.4	821.1	101.0	66.4	56.0	51.6	49.9	51.6	55.2	59.6	60.6
35°	1523.3	727.8	85.6	59.3	49.9	45.5	44.7	47.8	51.6	54.8	55.5
37.5°	1546.6	641.6	77.2	53.5	44.5	40.5	39.7	43.5	47.2	51.3	52.2
40°	1590.8	573.9	71.1	48.1	40.1	35.8	34.3	37.0	42.1	47.5	48.9
42.5°	1648.0	518.1	64.3	42.8	35.8	29.6	27.9	31.0	36.4	42.1	43.7
45°	1702.6	469.9	57.0	36.7	30.0	22.8	22.2	26.3	28.9	34.7	36.0
47.5°	1732.6	427.5	50.6	30.0	23.3	18.5	18.5	19.6	22.2	28.9	30.4
50°	1722.5	393.4	43.7	22.2	16.2	14.2	14.2	13.8	17.8	23.3	24.3
52.5°	1702.3	373.9	37.6	17.2	11.0	10.2	9.2	10.2	12.4	14.8	15.1
55°	1699.2	370.6	31.7	13.8	7.7	6.7	5.0	5.0	5.0	4.8	4.0
57.5°	1722.8	375.9	26.6	11.0	5.7	4.4	2.6	0.0	0.0	0.0	0.0
60°	1747.1	381.6	22.8	7.7	4.0	2.3	0.3	0.0	0.0	0.0	0.0
62.5°	1706.6	368.8	19.3	4.8	3.1	1.0	0.0	0.0	0.0	0.0	0.0
65°	1499.1	313.9	15.1	3.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1066.4	210.2	10.2	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	486.7	87.9	6.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	104.1	27.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.2	19.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.7	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.4	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)