

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: P193000

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12278.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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

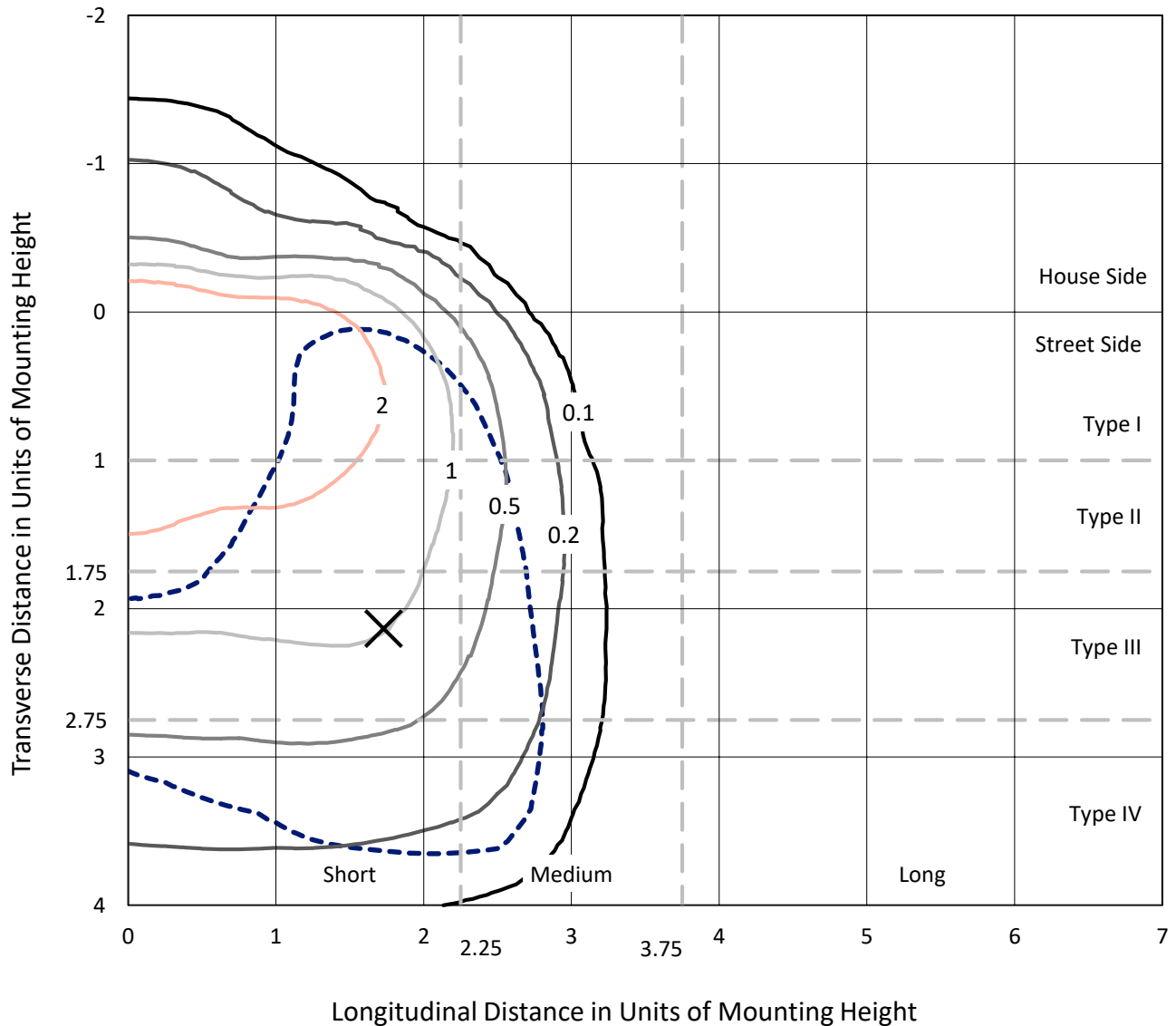


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

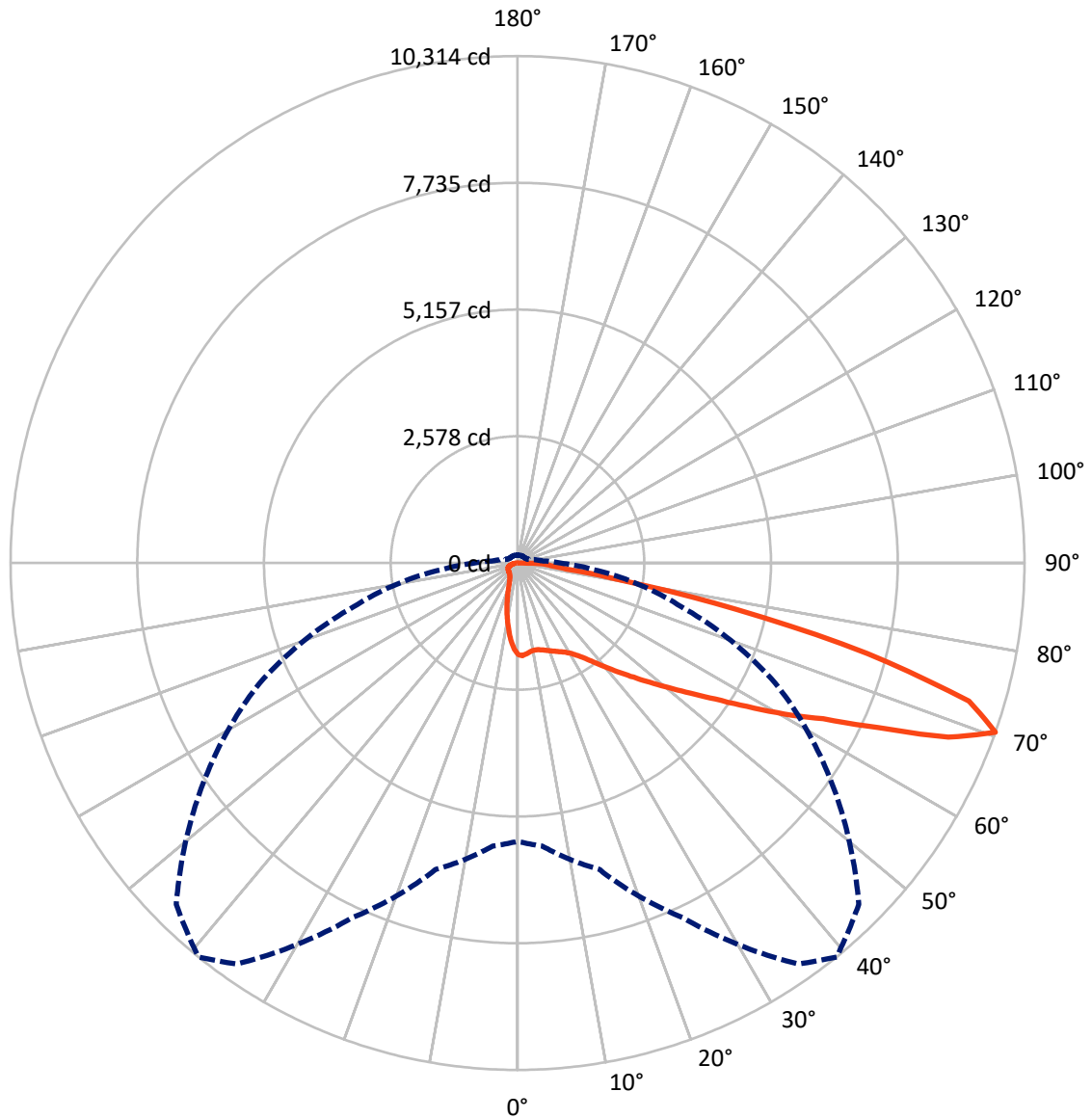


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.5	0.0	1396.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10882.1	0.0	10882.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	12278.5	0.0	12278.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.3
10°-20°	399.9	3.3
20°-30°	622.6	5.1
30°-40°	969.9	7.9
40°-50°	1628.3	13.3
50°-60°	2586.7	21.1
60°-70°	3450.4	28.1
70°-80°	2083.6	17.0
80°-90°	377.1	3.1
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°	12278.5	100.0
0°-180°	12278.5	100.0

Coefficient of Utilization



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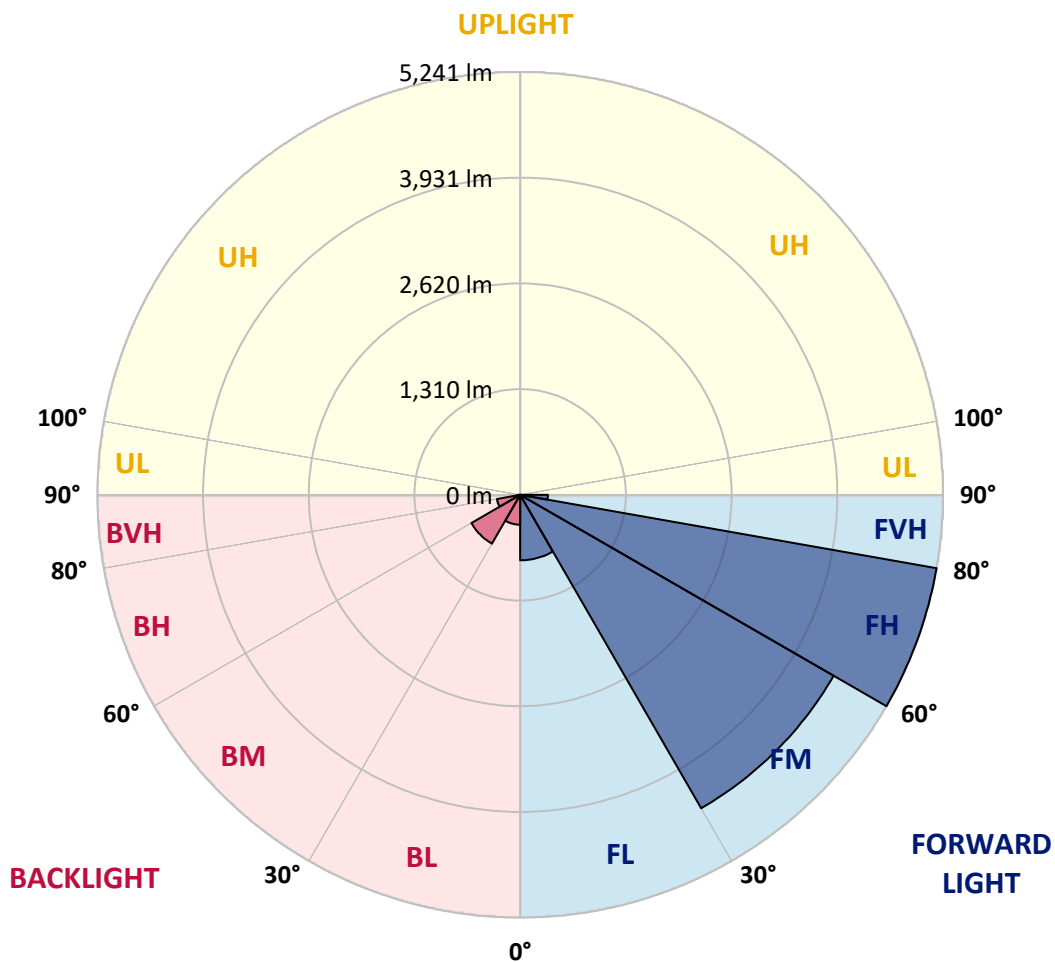
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.0	6.6			
FM	(30°-60°)	4486.1	36.5			
FH	(60°-80°)	5240.8	42.7			G3/7500
FVH	(80°-90°)	343.1	2.8			G3/500
BL	(0°-30°)	370.5	3.0	B1/500		
BM	(30°-60°)	698.9	5.7	B1/1000		
BH	(60°-80°)	293.2	2.4	B1/500		G1/500
BVH	(80°-90°)	34.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1900.2	1899.7	1894.7	1891.0	1887.8	1886.6	1889.1	1879.7	1871.6	1861.6	1851.0
5°	1886.0	1885.3	1877.2	1869.7	1862.3	1859.7	1859.0	1842.2	1832.3	1817.3	1797.4
7.5°	1870.3	1867.2	1856.6	1844.1	1830.9	1824.7	1818.5	1796.7	1785.4	1770.4	1747.4
10°	1854.1	1850.3	1840.4	1827.9	1815.4	1806.0	1795.4	1774.2	1762.4	1751.1	1724.2
12.5°	1837.2	1834.1	1831.6	1825.9	1817.3	1809.2	1801.0	1782.9	1770.4	1757.3	1726.1
15°	1834.7	1833.5	1839.1	1842.8	1837.8	1832.9	1824.1	1808.6	1795.4	1782.3	1741.7
17.5°	1854.6	1854.1	1868.5	1878.3	1876.0	1867.2	1855.3	1837.8	1827.3	1816.0	1765.4
20°	1898.4	1901.5	1919.0	1932.1	1919.6	1907.1	1887.8	1863.4	1857.9	1852.8	1789.7
22.5°	1980.8	1983.9	1996.3	2001.4	1969.0	1950.9	1924.0	1892.8	1889.1	1892.8	1819.1
25°	2109.4	2106.3	2104.5	2085.6	2026.4	1998.3	1963.9	1931.4	1933.4	1950.3	1860.3
27.5°	2279.8	2263.0	2236.7	2180.6	2086.3	2055.0	2013.3	1983.3	1995.2	2027.7	1922.1
30°	2456.4	2437.8	2377.3	2285.4	2165.0	2130.7	2083.8	2050.1	2081.3	2132.5	2004.6
32.5°	2620.0	2617.6	2529.0	2411.0	2273.5	2243.6	2196.7	2158.8	2209.3	2287.4	2128.2
35°	2798.5	2804.2	2698.0	2556.3	2420.3	2389.1	2355.4	2326.6	2394.1	2501.5	2307.3
37.5°	2989.7	3001.0	2875.3	2715.5	2587.6	2574.4	2554.5	2542.0	2646.3	2794.9	2557.6
40°	3245.0	3233.7	3059.6	2895.4	2793.0	2792.3	2786.1	2801.1	2974.7	3178.2	2879.1
42.5°	3518.3	3485.3	3255.0	3088.3	3018.4	3039.6	3052.0	3113.3	3369.8	3643.9	3271.2
45°	3813.0	3738.8	3457.8	3292.4	3268.7	3313.7	3356.1	3489.0	3834.9	4173.9	3700.7
47.5°	4048.4	3976.6	3667.7	3506.5	3558.3	3626.5	3708.2	3918.6	4355.5	4721.4	4124.5
50°	4233.8	4187.1	3879.2	3756.3	3877.4	3982.3	4115.8	4404.9	4897.4	5254.5	4517.3
52.5°	4413.6	4378.7	4092.8	4012.2	4252.0	4396.7	4578.4	4926.7	5453.0	5778.8	4847.5
55°	4575.9	4550.9	4322.4	4331.1	4692.6	4881.1	5109.6	5521.1	6058.5	6246.5	5127.1
57.5°	4758.8	4727.0	4584.6	4731.4	5258.8	5503.6	5800.7	6189.0	6626.7	6662.2	5340.0
60°	4943.0	4915.5	4875.5	5193.3	5978.0	6235.2	6516.8	6836.4	7202.8	6985.0	5327.5
62.5°	5102.9	5105.9	5176.4	5678.4	6682.2	6980.0	7323.3	7639.2	7724.1	7041.2	4933.6
65°	5373.7	5423.1	5633.4	6365.1	7673.5	8071.8	8493.3	8442.7	7868.3	6516.1	4089.0
67.5°	5695.9	5782.6	6208.9	7280.3	8926.5	9455.2	9618.2	8624.3	7290.9	5297.0	2914.7
70°	5663.4	5782.6	6457.4	7962.6	9959.0	10313.6	9819.1	7805.3	5789.5	3460.3	1548.2
72.5°	5029.1	5199.5	5951.2	7649.8	9633.7	9602.6	8524.4	5818.8	3439.7	1389.7	605.0
75°	3833.1	4005.3	4652.0	6043.5	7614.3	7352.0	6048.6	3214.4	1305.3	551.9	381.5
77.5°	2205.0	2338.4	2837.9	3706.3	4830.6	4561.6	3366.8	1429.5	635.6	384.6	297.7
80°	1231.1	1305.3	1608.8	1880.4	2367.2	2170.0	1506.3	888.4	474.4	279.0	229.8
82.5°	973.3	1039.4	1301.0	1186.1	1081.2	997.5	865.3	790.9	378.9	176.0	137.3
85°	850.2	913.3	1101.3	933.9	738.5	677.3	703.0	778.5	294.7	106.1	117.4
87.5°	787.9	872.1	981.3	719.8	574.9	509.3	648.7	853.5	94.8	66.2	47.4
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°	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1	1864.1
2.5°	1841.6	1831.6	1815.4	1801.0	1778.5	1766.7	1753.6	1744.3	1736.6	1730.4	1740.5
5°	1784.7	1766.0	1731.8	1694.9	1651.2	1616.8	1588.2	1561.4	1542.5	1530.0	1538.8
7.5°	1731.1	1700.5	1646.9	1580.0	1505.1	1441.4	1389.0	1342.8	1311.0	1290.4	1298.4
10°	1700.5	1662.5	1579.5	1474.6	1364.0	1264.7	1182.4	1111.1	1061.9	1033.8	1038.2
12.5°	1693.0	1643.7	1528.9	1384.7	1233.5	1095.6	979.5	880.8	811.6	775.3	776.7
15°	1698.7	1635.6	1481.4	1298.4	1107.5	933.3	788.5	668.5	588.1	546.9	546.2
17.5°	1708.0	1629.4	1431.4	1205.4	979.5	777.3	615.5	498.2	426.9	393.9	391.3
20°	1718.0	1619.3	1375.2	1104.9	846.5	632.4	482.0	390.2	345.3	327.1	325.9
22.5°	1732.3	1610.6	1317.2	998.8	716.0	515.0	396.4	334.7	310.9	301.5	300.3
25°	1755.5	1606.2	1255.4	888.4	598.6	430.7	345.3	307.1	293.4	287.2	286.6
27.5°	1794.1	1612.4	1197.4	780.9	503.1	373.8	316.6	293.4	283.4	277.8	277.2
30°	1844.1	1631.9	1136.2	679.1	428.9	335.2	299.1	284.1	275.9	270.3	270.3
32.5°	1927.2	1664.3	1071.9	591.2	375.9	308.4	285.9	275.9	269.1	264.7	264.1
35°	2049.4	1725.5	1012.0	518.1	337.7	289.0	274.7	267.1	262.2	259.7	259.7
37.5°	2227.4	1822.2	958.9	465.7	314.6	275.9	264.1	258.4	255.3	255.3	255.3
40°	2466.5	1955.8	915.8	430.7	301.5	266.6	256.0	251.7	249.6	250.3	250.3
42.5°	2761.7	2129.4	887.0	406.5	295.3	260.9	250.3	246.6	244.7	244.0	244.7
45°	3098.3	2326.6	884.0	388.3	289.0	257.2	246.6	242.9	239.1	236.5	236.5
47.5°	3425.4	2527.0	909.6	382.1	282.2	252.8	243.4	239.8	234.2	228.5	228.5
50°	3714.4	2697.5	943.9	384.6	279.7	246.6	238.5	236.5	227.8	221.6	221.0
52.5°	3944.2	2828.6	972.0	392.0	282.2	242.2	232.1	232.8	223.4	216.7	216.0
55°	4128.4	2914.7	964.5	399.6	287.8	239.8	226.6	227.8	220.3	213.5	213.5
57.5°	4208.8	2883.0	881.5	393.4	292.2	240.4	222.3	227.3	221.0	214.8	214.8
60°	4035.9	2600.1	726.0	365.8	286.6	238.5	220.3	229.8	229.1	222.9	222.3
62.5°	3512.8	2093.9	563.1	325.3	267.1	229.1	215.3	229.1	236.0	234.2	233.5
65°	2707.5	1491.4	430.2	281.6	240.9	213.5	202.2	214.8	224.1	226.6	225.9
67.5°	1757.3	914.0	331.5	240.4	211.6	195.3	185.4	190.9	193.0	193.0	191.6
70°	864.0	491.8	264.1	202.2	181.7	176.0	170.5	167.2	164.2	161.7	161.7
72.5°	426.3	321.6	217.2	171.1	156.7	154.2	153.0	149.2	146.7	143.5	142.4
75°	315.2	261.5	184.7	144.2	134.8	132.3	134.8	131.7	131.1	128.6	127.4
77.5°	259.1	222.9	159.2	123.6	115.5	111.1	114.8	115.5	116.2	112.3	111.1
80°	210.5	188.6	133.0	102.3	94.8	91.8	94.3	99.2	100.5	94.8	92.5
82.5°	151.7	154.2	107.4	79.9	73.6	71.1	76.2	82.4	83.7	75.5	73.6
85°	127.4	128.6	82.4	56.9	50.6	46.9	54.9	61.1	65.5	57.5	55.6
87.5°	53.1	75.5	47.4	31.8	28.1	24.4	29.4	32.4	39.4	36.2	35.6
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)