

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: P318336

Luminaire Tested: **GAN-SA2D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13279 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

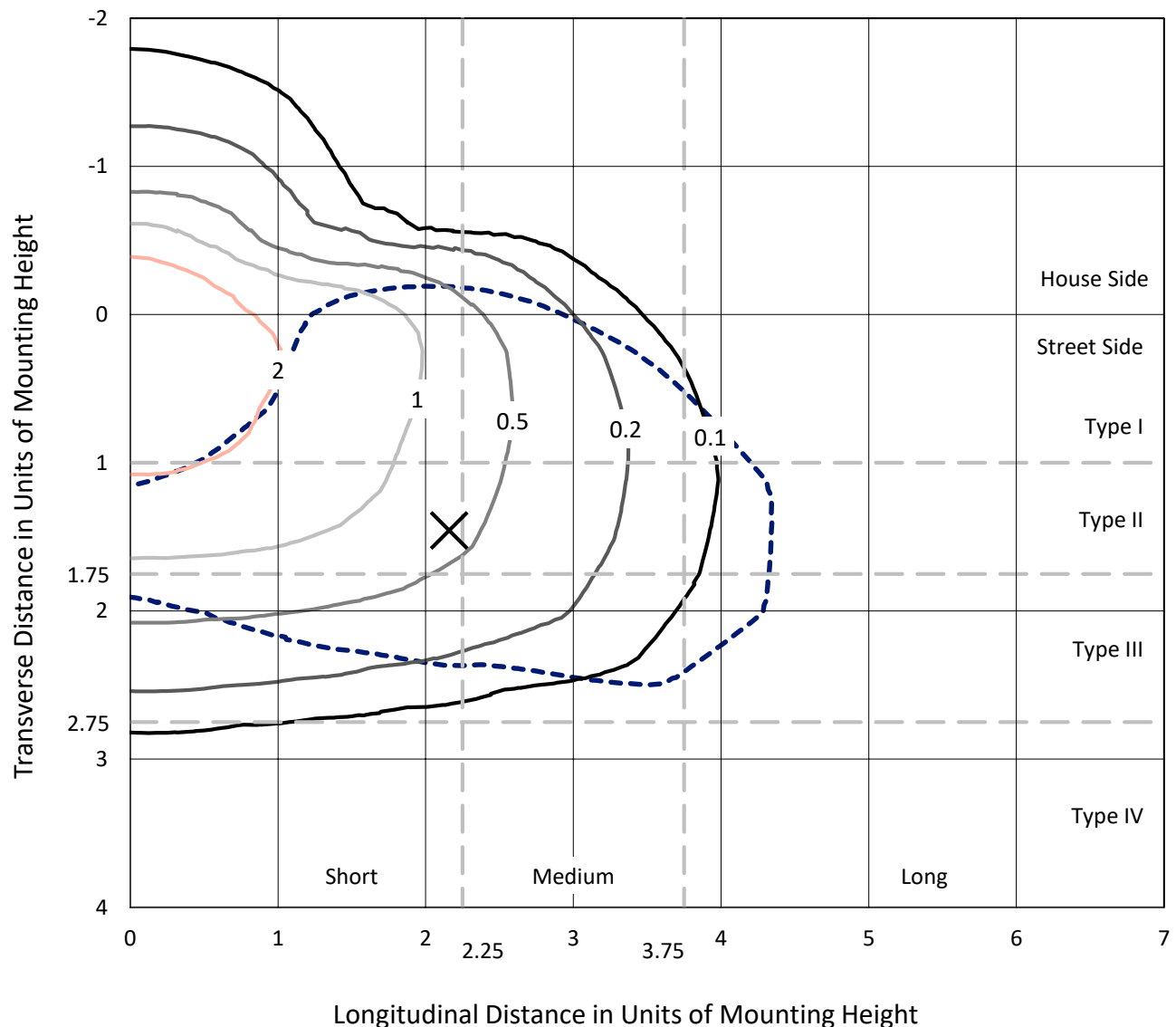
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

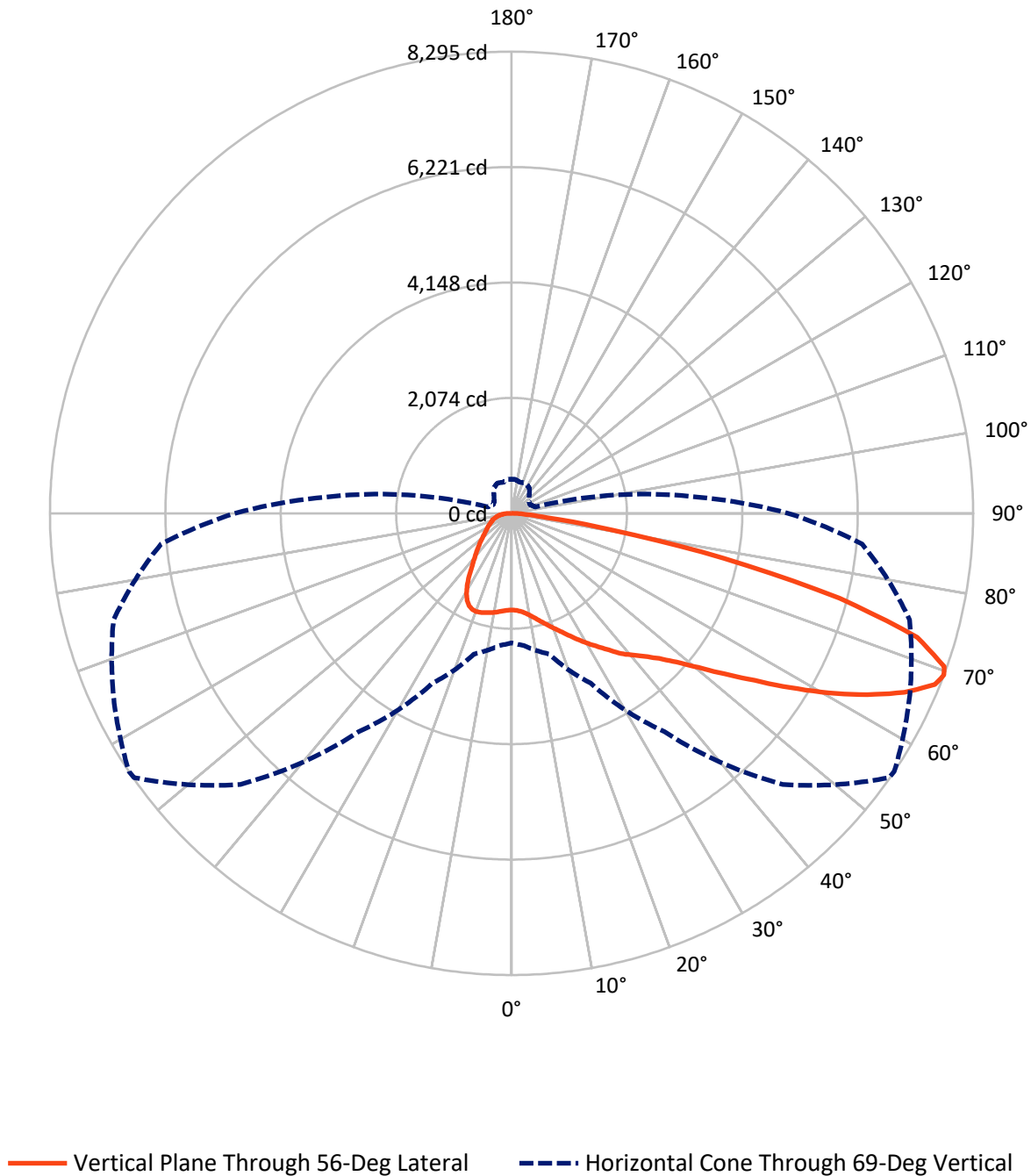
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2957.2	0.0	2957.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10321.8	0.0	10321.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	13279.0	0.0	13279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.3
10°-20°	548.3	4.1
20°-30°	957.1	7.2
30°-40°	1374.8	10.4
40°-50°	1902.7	14.3
50°-60°	2787.7	21.0
60°-70°	3398.7	25.6
70°-80°	1879.0	14.2
80°-90°	260.2	2.0
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°	13279.0	100.0
0°-180°	13279.0	100.0

Coefficient of Utilization



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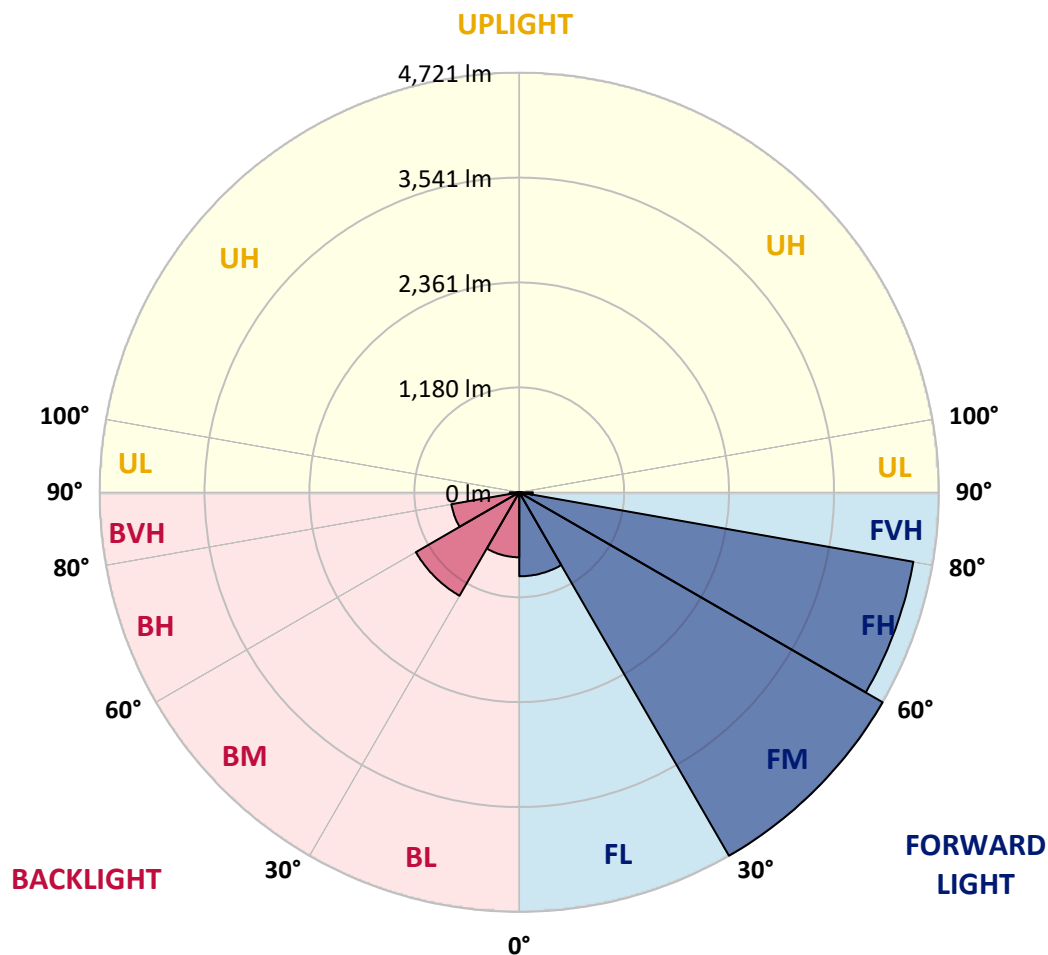
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	945.1	7.1			
FM	(30°-60°)	4721.2	35.6			
FH	(60°-80°)	4502.2	33.9			G2/5000
FVH	(80°-90°)	153.3	1.2			G2/225
BL	(0°-30°)	730.8	5.5	B2/1000		
BM	(30°-60°)	1344.0	10.1	B2/2500		
BH	(60°-80°)	775.5	5.8	B2/1000		G2/1000
BVH	(80°-90°)	107.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1747.0	1748.8	1747.5	1751.1	1747.0	1749.8	1747.5	1747.5	1746.1	1742.0	1737.4
5°	1774.5	1778.1	1775.8	1779.5	1774.5	1775.4	1771.3	1771.3	1767.1	1758.4	1749.3
7.5°	1817.5	1821.6	1819.7	1823.4	1816.5	1816.5	1811.1	1810.6	1802.4	1788.2	1777.7
10°	1868.7	1874.2	1872.3	1877.8	1872.3	1874.2	1868.7	1868.7	1857.7	1837.6	1824.3
12.5°	1943.3	1950.1	1945.1	1944.6	1942.3	1946.0	1941.4	1940.5	1930.4	1903.0	1884.7
15°	2043.0	2050.3	2039.8	2038.9	2026.1	2024.7	2024.7	2023.3	2016.9	1984.0	1953.8
17.5°	2157.8	2160.1	2150.9	2136.3	2119.8	2109.3	2107.9	2111.6	2111.6	2073.2	2025.1
20°	2270.3	2274.5	2267.1	2250.7	2229.6	2214.1	2203.1	2210.4	2209.9	2164.2	2096.0
22.5°	2392.9	2402.5	2391.6	2370.5	2345.8	2328.4	2309.2	2315.6	2316.1	2259.8	2165.6
25°	2551.7	2543.0	2536.1	2506.4	2471.2	2453.3	2435.5	2441.9	2440.0	2362.7	2237.4
27.5°	2692.1	2693.9	2684.8	2653.2	2612.5	2573.2	2572.3	2576.4	2569.5	2469.8	2305.1
30°	2855.4	2856.3	2843.5	2815.2	2770.8	2720.0	2708.1	2715.0	2700.3	2571.3	2376.5
32.5°	3017.8	3022.4	3008.2	2973.9	2938.2	2876.5	2852.7	2857.2	2820.6	2675.2	2450.1
35°	3160.1	3166.5	3161.9	3139.0	3100.2	3047.1	3018.7	3016.0	2970.7	2802.3	2547.5
37.5°	3305.1	3311.0	3306.0	3286.8	3271.2	3215.0	3199.9	3199.9	3121.2	2932.3	2671.5
40°	3454.2	3463.4	3457.4	3430.9	3417.6	3392.0	3355.9	3347.2	3262.1	3088.3	2873.7
42.5°	3592.8	3604.7	3628.5	3613.0	3586.0	3589.6	3516.9	3512.3	3450.1	3318.8	3127.6
45°	3789.5	3806.9	3847.2	3835.3	3829.8	3809.7	3723.2	3719.1	3695.3	3629.0	3442.8
47.5°	4004.1	4027.9	4100.6	4102.9	4161.9	4123.9	4006.4	3992.2	3997.7	4000.4	3827.5
50°	4201.7	4227.8	4347.2	4403.4	4542.5	4550.7	4362.7	4349.9	4371.4	4434.5	4275.8
52.5°	4359.5	4392.5	4541.6	4715.4	4953.7	5021.4	4801.4	4791.8	4807.8	4916.7	4782.7
55°	4475.3	4510.9	4673.3	4989.9	5370.5	5489.9	5306.4	5297.3	5307.4	5446.0	5333.9
57.5°	4502.2	4510.9	4746.5	5174.7	5722.3	6009.1	5924.5	5906.2	5856.8	5977.5	5942.3
60°	4375.5	4410.3	4686.1	5239.7	5994.4	6521.0	6570.4	6547.5	6408.9	6507.7	6479.3
62.5°	4118.4	4180.7	4460.6	5140.8	6101.0	6939.1	7204.0	7176.5	6937.7	7001.8	6865.4
65°	3698.5	3725.0	4019.2	4800.0	5965.6	7206.7	7768.9	7755.2	7454.6	7354.5	6936.8
67.5°	2947.4	2997.2	3247.0	4087.8	5411.7	7175.1	8205.8	8204.4	7792.2	7485.3	6683.8
69°	2328.4	2380.1	2618.0	3367.3	4788.6	6886.5	8279.0	8295.0	7887.4	7405.7	6322.4
70°	1856.3	1916.3	2079.6	2836.2	4235.5	6505.9	8218.1	8246.9	7869.1	7274.4	5989.0
72.5°	790.0	838.5	954.7	1462.0	2581.4	4858.1	7514.1	7623.0	7445.0	6657.8	4949.6
75°	344.9	360.0	412.6	596.1	1145.9	2644.1	5886.5	6087.8	6365.9	5627.6	3687.1
77.5°	252.5	258.9	287.7	350.0	514.2	998.6	3785.4	3902.5	4591.0	4095.1	2261.6
80°	195.3	199.9	222.3	257.1	335.8	403.9	1726.4	1827.1	2581.4	2103.4	941.9
82.5°	155.5	158.7	174.3	189.4	231.9	244.7	573.2	635.9	952.9	581.0	249.3
85°	144.6	148.2	153.7	138.2	148.7	143.6	247.9	259.4	287.7	228.3	104.3
87.5°	65.4	77.3	152.3	107.5	79.1	63.1	101.6	106.1	119.4	119.9	46.2
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1740.1	1738.8	1741.1	1735.6	1742.4	1742.0	1739.7	1740.6	1745.2	1744.7	1745.2
5°	1750.7	1749.8	1752.5	1748.4	1756.6	1759.4	1759.8	1763.9	1769.0	1770.3	1770.3
7.5°	1777.2	1777.2	1778.6	1773.1	1778.6	1778.1	1775.8	1779.9	1785.0	1785.4	1785.0
10°	1822.9	1823.4	1821.1	1806.9	1802.4	1790.0	1778.6	1779.0	1785.4	1790.5	1791.8
12.5°	1880.6	1878.8	1868.7	1842.6	1823.4	1798.2	1786.3	1785.9	1792.3	1796.4	1797.8
15°	1946.5	1941.4	1915.4	1872.8	1839.0	1814.3	1795.0	1790.5	1786.8	1782.2	1782.7
17.5°	2008.7	1997.2	1953.8	1894.8	1859.1	1826.1	1789.1	1759.4	1738.8	1726.9	1723.2
20°	2071.8	2049.4	1986.7	1915.4	1870.1	1810.1	1738.8	1678.4	1640.9	1623.5	1620.3
22.5°	2129.4	2093.3	2017.4	1936.9	1861.4	1756.2	1644.1	1556.3	1504.1	1480.8	1482.6
25°	2185.7	2135.4	2049.4	1951.9	1817.5	1661.0	1512.3	1404.4	1344.0	1317.9	1317.0
27.5°	2235.1	2177.9	2084.2	1939.6	1735.6	1525.6	1356.3	1251.1	1200.8	1178.4	1174.7
30°	2291.8	2231.4	2130.4	1892.5	1615.7	1369.2	1204.0	1129.9	1094.2	1071.8	1067.7
32.5°	2360.9	2304.2	2168.3	1806.9	1462.5	1205.8	1085.1	1033.4	1000.9	975.7	971.2
35°	2461.5	2400.2	2177.9	1684.3	1294.1	1076.8	997.7	944.6	900.7	868.2	865.0
37.5°	2587.8	2520.6	2156.0	1525.6	1130.8	993.1	925.0	859.6	802.4	756.6	749.3
40°	2769.9	2668.3	2095.1	1342.6	1010.5	928.6	854.1	779.5	708.6	655.1	644.5
42.5°	2988.5	2841.7	2001.8	1160.6	922.2	863.2	783.6	691.2	623.5	585.5	580.0
45°	3266.7	3021.9	1872.3	1001.4	835.3	797.8	707.7	622.6	580.5	552.6	548.0
47.5°	3584.1	3224.1	1736.5	871.9	761.7	736.5	646.8	591.9	558.5	536.6	532.5
50°	3974.3	3452.4	1592.4	765.8	687.5	662.8	618.0	575.0	548.5	531.6	527.4
52.5°	4414.4	3709.9	1488.5	682.1	626.3	608.4	602.9	565.9	544.4	531.6	527.4
55°	4888.3	3972.1	1376.5	611.6	573.2	578.2	592.9	566.8	552.1	536.6	530.6
57.5°	5362.7	4242.9	1251.6	552.1	531.1	555.8	586.0	568.6	556.3	541.2	535.7
60°	5737.8	4414.4	1058.1	502.3	497.7	531.1	569.5	554.9	538.9	539.3	538.4
62.5°	5913.0	4405.3	844.5	457.9	464.3	497.7	543.0	533.4	520.1	538.0	539.3
65°	5814.7	4185.7	657.4	417.7	428.6	462.9	515.5	522.9	527.4	561.8	566.3
67.5°	5402.0	3758.4	509.1	382.4	396.2	439.2	518.3	569.5	575.5	611.6	611.2
69°	4975.2	3357.7	442.4	364.1	380.1	445.1	554.0	599.3	576.8	615.3	609.8
70°	4617.5	3040.7	406.7	351.8	372.8	455.6	577.8	598.8	570.0	602.9	593.8
72.5°	3556.2	2187.5	344.9	328.9	348.1	436.0	584.6	585.5	554.0	560.4	544.8
75°	2439.1	1382.4	301.0	297.8	310.6	393.0	562.7	559.5	512.3	503.2	490.4
77.5°	1344.9	702.2	255.7	268.1	276.8	348.1	511.4	506.9	468.0	448.8	444.2
80°	518.8	307.4	215.9	238.3	243.8	301.5	448.3	444.2	411.7	387.0	380.1
82.5°	195.8	161.0	178.4	206.3	204.5	248.9	379.7	377.4	345.8	309.7	298.7
85°	90.6	96.5	141.4	170.2	156.9	184.4	303.7	307.9	269.4	226.4	226.4
87.5°	38.4	54.0	100.2	128.5	105.7	124.4	222.8	212.7	195.3	135.4	127.2
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)