

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: P318347

Luminaire Tested: **GAN-SA3A-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318347  
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-SA3A-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12960 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

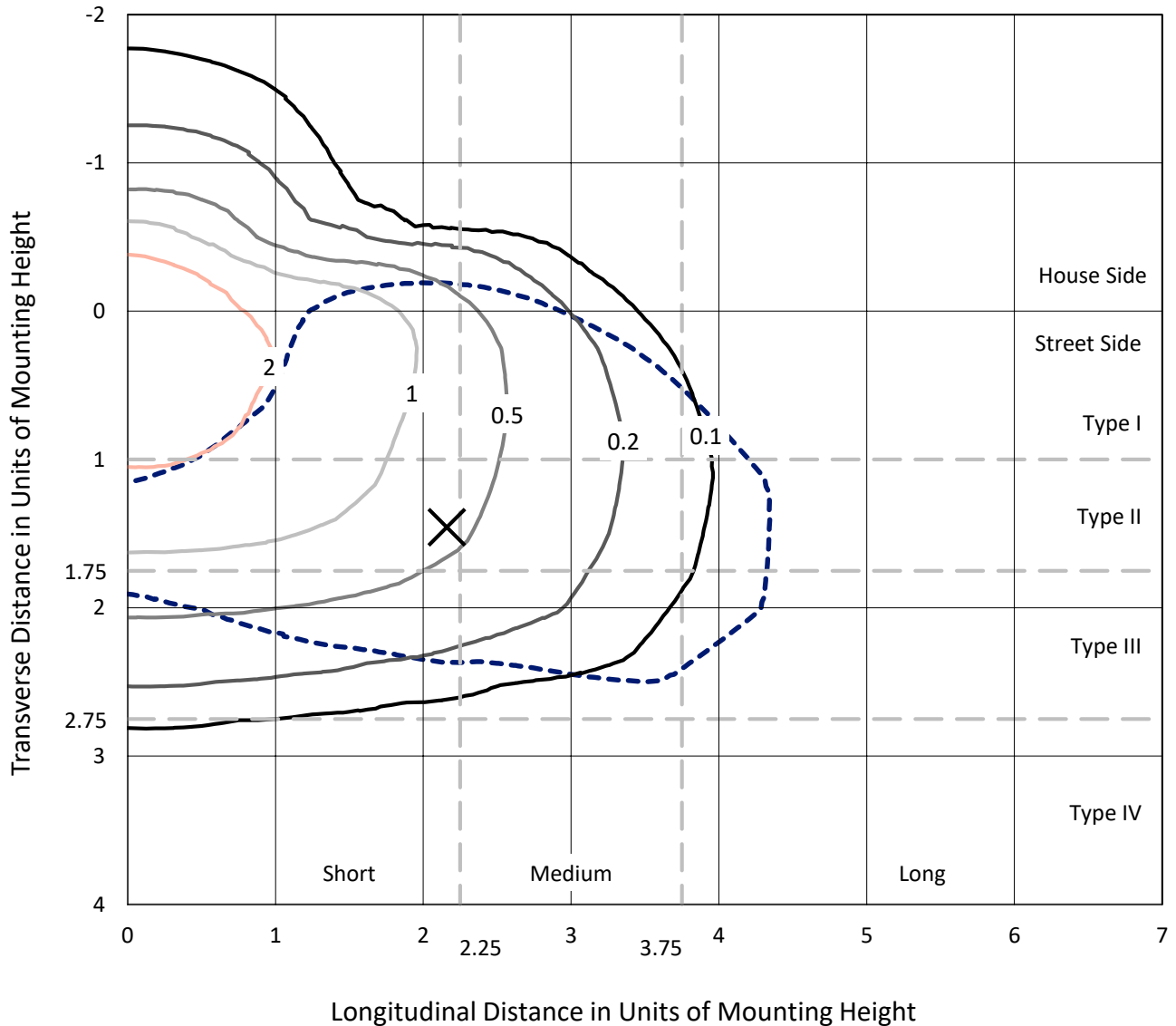
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

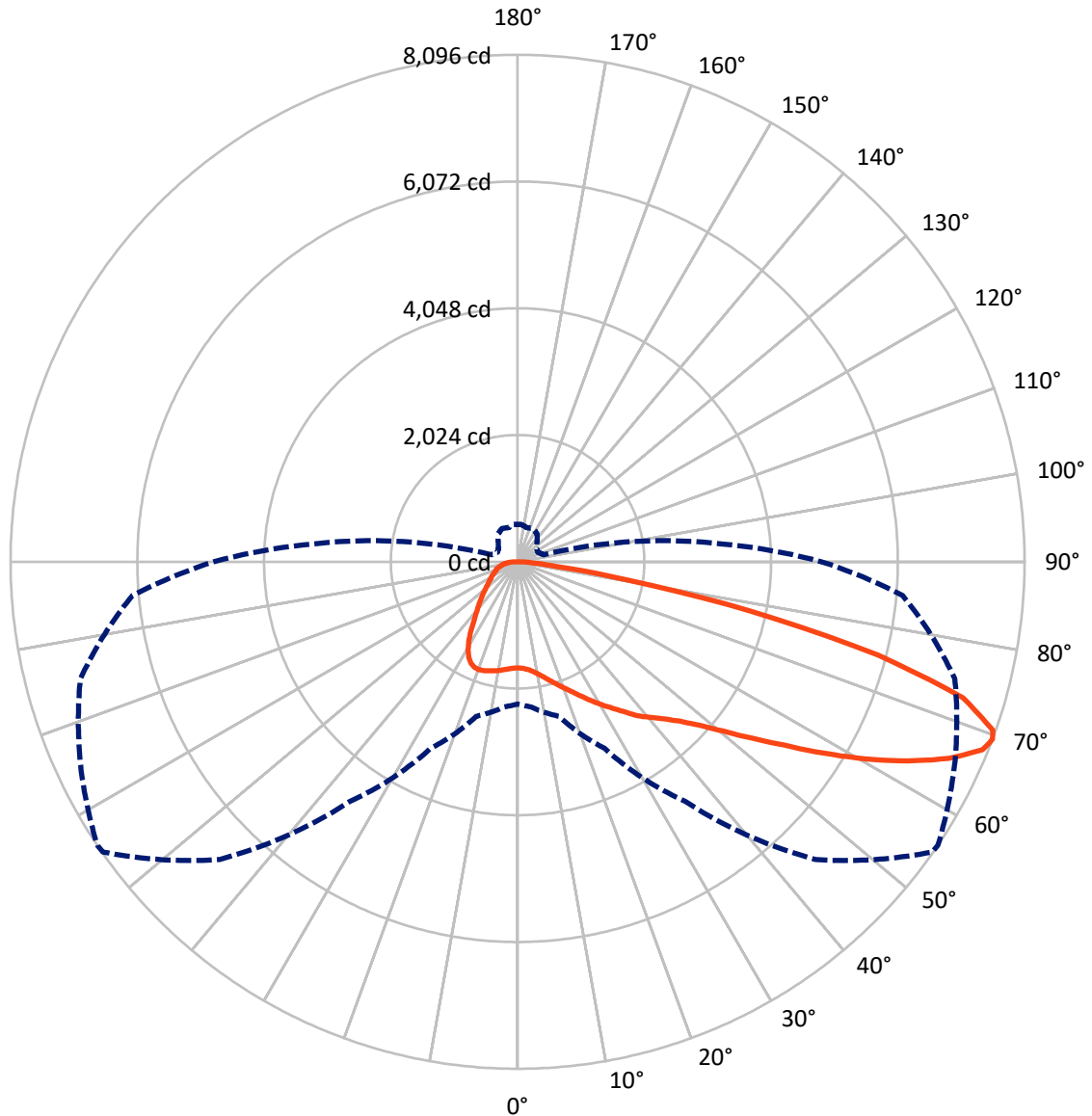
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2886.2	0.0	2886.2
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	10073.8	0.0	10073.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	12960.0	0.0	12960.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.4	1.3
10°-20°	535.1	4.1
20°-30°	934.1	7.2
30°-40°	1341.8	10.4
40°-50°	1857.0	14.3
50°-60°	2720.7	21.0
60°-70°	3317.1	25.6
70°-80°	1833.9	14.2
80°-90°	254.0	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°	12960.0	100.0
0°-180°	12960.0	100.0

**Coefficient of Utilization**



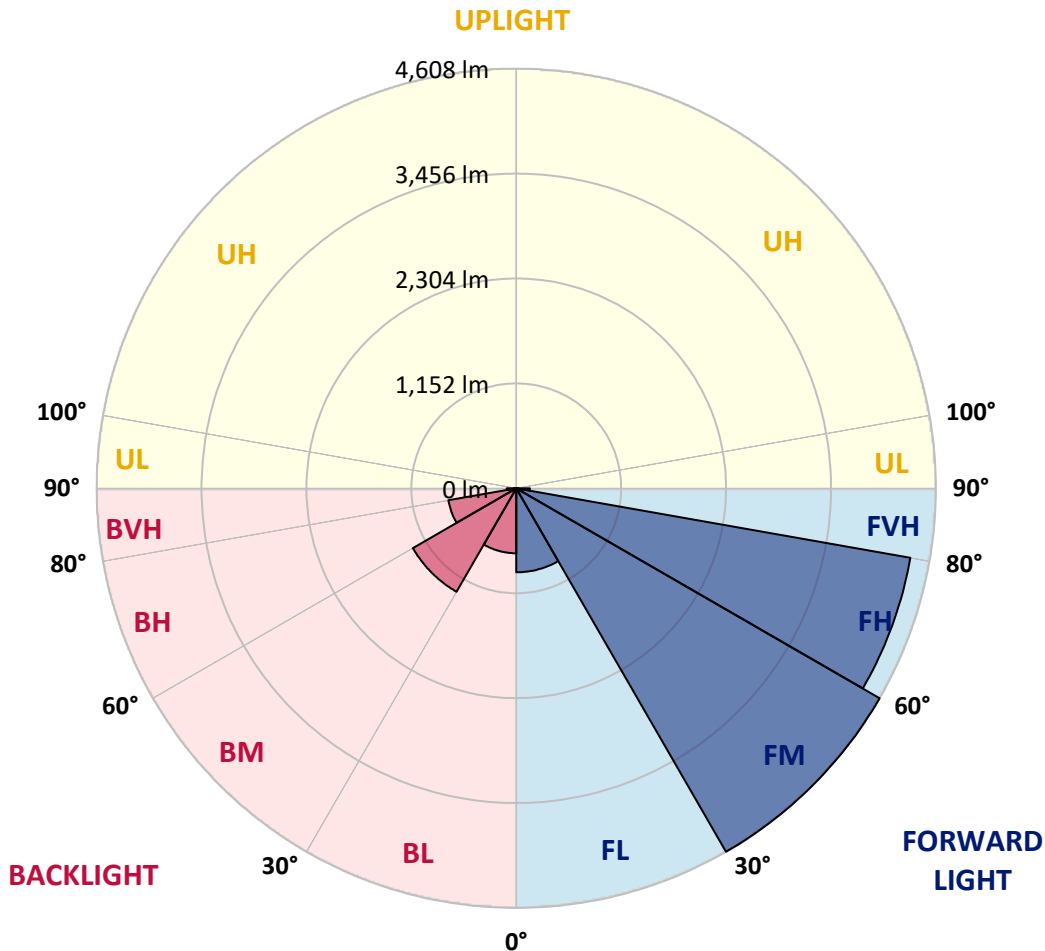
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	922.4	7.1			
FM (30°-60°)	4607.8	35.6			
FH (60°-80°)	4394.1	33.9			G2/5000
FVH (80°-90°)	149.6	1.2			G2/225
BL (0°-30°)	713.2	5.5	B2/1000		
BM (30°-60°)	1311.7	10.1	B2/2500		
BH (60°-80°)	756.8	5.8	B2/1000		G2/1000
BVH (80°-90°)	104.4	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°	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1705.0	1706.8	1705.5	1709.1	1705.0	1707.7	1705.5	1705.5	1704.1	1700.1	1695.7
5°	1731.8	1735.4	1733.2	1736.7	1731.8	1732.7	1728.7	1728.7	1724.7	1716.2	1707.3
7.5°	1773.8	1777.8	1776.0	1779.6	1772.9	1772.9	1767.5	1767.1	1759.1	1745.2	1735.0
10°	1823.8	1829.2	1827.4	1832.7	1827.4	1829.2	1823.8	1823.8	1813.1	1793.4	1780.5
12.5°	1896.6	1903.3	1898.4	1897.9	1895.7	1899.3	1894.8	1893.9	1884.1	1857.3	1839.4
15°	1993.9	2001.0	1990.8	1989.9	1977.4	1976.0	1976.0	1974.7	1968.5	1936.3	1906.8
17.5°	2106.0	2108.2	2099.3	2085.0	2068.9	2058.6	2057.3	2060.9	2060.9	2023.4	1976.5
20°	2215.8	2219.8	2212.7	2196.6	2176.1	2160.9	2150.2	2157.3	2156.9	2112.2	2045.7
22.5°	2335.4	2344.8	2334.1	2313.6	2289.5	2272.5	2253.7	2260.0	2260.4	2205.5	2113.6
25°	2490.4	2481.9	2475.2	2446.2	2411.8	2394.4	2377.0	2383.2	2381.4	2306.0	2183.6
27.5°	2627.4	2629.2	2620.3	2589.5	2549.7	2511.4	2510.5	2514.5	2507.8	2410.5	2249.7
30°	2786.8	2787.7	2775.2	2747.5	2704.2	2654.7	2643.1	2649.8	2635.5	2509.6	2319.4
32.5°	2945.3	2949.8	2935.9	2902.5	2867.6	2807.4	2784.1	2788.6	2752.9	2610.9	2391.3
35°	3084.2	3090.4	3085.9	3063.6	3025.7	2973.9	2946.2	2943.5	2899.3	2735.0	2486.3
37.5°	3225.7	3231.5	3226.6	3207.8	3192.7	3137.7	3123.0	3123.0	3046.2	2861.8	2607.3
40°	3371.2	3380.2	3374.4	3348.5	3335.5	3310.5	3275.2	3266.8	3183.7	3014.1	2804.7
42.5°	3506.5	3518.1	3541.3	3526.2	3499.8	3503.4	3432.4	3427.9	3367.2	3239.1	3052.5
45°	3698.5	3715.5	3754.7	3743.1	3737.8	3718.1	3633.8	3629.7	3606.5	3541.8	3360.1
47.5°	3907.9	3931.1	4002.1	4004.3	4061.9	4024.9	3910.1	3896.3	3901.6	3904.3	3735.6
50°	4100.8	4126.2	4242.7	4297.6	4433.4	4441.4	4257.9	4245.4	4266.4	4328.0	4173.1
52.5°	4254.8	4286.9	4432.5	4602.1	4834.7	4900.8	4686.1	4676.7	4692.3	4798.6	4667.8
55°	4367.7	4402.6	4561.1	4870.0	5241.5	5358.0	5179.0	5170.0	5179.9	5315.1	5205.8
57.5°	4394.1	4402.6	4632.5	5050.4	5584.8	5864.7	5782.1	5764.3	5716.1	5833.9	5799.5
60°	4270.4	4304.3	4573.6	5113.8	5850.4	6364.3	6412.5	6390.2	6254.9	6351.4	6323.7
62.5°	4019.5	4080.2	4353.5	5017.3	5954.5	6772.4	7030.9	7004.1	6771.0	6833.6	6700.5
65°	3609.6	3635.5	3922.6	4684.7	5822.3	7033.6	7582.3	7568.9	7275.6	7177.8	6770.2
67.5°	2876.6	2925.2	3169.0	3989.6	5281.7	7002.8	8008.6	8007.3	7605.0	7305.5	6523.3
69°	2272.5	2322.9	2555.1	3286.4	4673.6	6721.0	8080.1	8095.7	7697.9	7227.8	6170.6
70°	1811.7	1870.2	2029.6	2768.1	4133.8	6349.6	8020.7	8048.8	7680.0	7099.6	5845.1
72.5°	771.0	818.4	931.8	1426.9	2519.4	4741.4	7333.6	7439.8	7266.2	6497.8	4830.7
75°	336.6	351.4	402.7	581.7	1118.4	2580.6	5745.1	5941.5	6213.0	5492.4	3598.5
77.5°	246.4	252.7	280.8	341.5	501.8	974.6	3694.5	3808.8	4480.7	3996.7	2207.3
80°	190.6	195.1	217.0	250.9	327.7	394.2	1684.9	1783.2	2519.4	2052.8	919.3
82.5°	151.8	154.9	170.1	184.8	226.4	238.9	559.4	620.6	930.0	567.0	243.3
85°	141.1	144.7	150.0	134.8	145.1	140.2	242.0	253.1	280.8	222.8	101.8
87.5°	63.8	75.5	148.7	104.9	77.2	61.6	99.1	103.6	116.5	117.0	45.1
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°	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3	1694.3
2.5°	1698.3	1697.0	1699.2	1693.9	1700.6	1700.1	1697.9	1698.8	1703.3	1702.8	1703.3
5°	1708.6	1707.7	1710.4	1706.4	1714.4	1717.1	1717.5	1721.6	1726.5	1727.8	1727.8
7.5°	1734.5	1734.5	1735.8	1730.5	1735.8	1735.4	1733.2	1737.2	1742.1	1742.5	1742.1
10°	1779.2	1779.6	1777.4	1763.5	1759.1	1747.0	1735.8	1736.3	1742.5	1747.5	1748.8
12.5°	1835.4	1833.6	1823.8	1798.4	1779.6	1755.0	1743.4	1743.0	1749.2	1753.3	1754.6
15°	1899.7	1894.8	1869.3	1827.8	1794.8	1770.7	1751.9	1747.5	1743.9	1739.4	1739.9
17.5°	1960.4	1949.3	1906.8	1849.2	1814.4	1782.3	1746.1	1717.1	1697.0	1685.4	1681.8
20°	2022.0	2000.2	1939.0	1869.3	1825.1	1766.7	1697.0	1638.1	1601.5	1584.5	1581.4
22.5°	2078.3	2043.0	1968.9	1890.3	1816.7	1714.0	1604.6	1518.9	1468.0	1445.2	1447.0
25°	2133.2	2084.1	2000.2	1905.1	1773.8	1621.1	1476.0	1370.6	1311.7	1286.3	1285.4
27.5°	2181.4	2125.6	2034.1	1893.0	1693.9	1489.0	1323.8	1221.1	1172.0	1150.1	1146.5
30°	2236.8	2177.8	2079.2	1847.0	1576.9	1336.3	1175.1	1102.8	1067.9	1046.1	1042.0
32.5°	2304.2	2248.8	2116.2	1763.5	1427.3	1176.9	1059.0	1008.6	976.9	952.3	947.8
35°	2402.4	2342.6	2125.6	1643.9	1263.0	1051.0	973.7	921.9	879.1	847.4	844.3
37.5°	2525.6	2460.0	2104.2	1489.0	1103.7	969.3	902.7	838.9	783.1	738.4	731.3
40°	2703.3	2604.2	2044.8	1310.4	986.2	906.3	833.5	760.8	691.6	639.3	629.1
42.5°	2916.7	2773.4	1953.7	1132.7	900.1	842.5	764.8	674.6	608.5	571.5	566.1
45°	3188.2	2949.3	1827.4	977.3	815.2	778.6	690.7	607.6	566.6	539.3	534.9
47.5°	3498.0	3146.7	1694.8	851.0	743.4	718.8	631.3	577.7	545.1	523.7	519.7
50°	3878.9	3369.5	1554.1	747.4	671.0	646.9	603.2	561.2	535.3	518.8	514.8
52.5°	4308.4	3620.8	1452.8	665.7	611.2	593.8	588.4	552.3	531.3	518.8	514.8
55°	4770.9	3876.6	1343.4	596.9	559.4	564.3	578.6	553.2	538.9	523.7	517.9
57.5°	5233.9	4140.9	1221.5	538.9	518.3	542.5	571.9	555.0	542.9	528.2	522.8
60°	5600.0	4308.4	1032.7	490.2	485.8	518.3	555.8	541.6	525.9	526.4	525.5
62.5°	5771.0	4299.4	824.2	446.9	453.2	485.8	530.0	520.6	507.6	525.0	526.4
65°	5675.0	4085.1	641.6	407.6	418.3	451.8	503.2	510.3	514.8	548.3	552.7
67.5°	5272.3	3668.1	496.9	373.2	386.6	428.6	505.8	555.8	561.6	596.9	596.5
69°	4855.7	3277.0	431.7	355.4	371.0	434.4	540.7	584.9	563.0	600.5	595.1
70°	4506.6	2967.6	396.9	343.3	363.9	444.7	563.9	584.4	556.3	588.4	579.5
72.5°	3470.8	2135.0	336.6	321.0	339.8	425.5	570.6	571.5	540.7	546.9	531.7
75°	2380.5	1349.2	293.8	290.6	303.1	383.5	549.1	546.0	500.0	491.1	478.6
77.5°	1312.6	685.3	249.6	261.6	270.1	339.8	499.1	494.7	456.7	438.0	433.5
80°	506.3	300.0	210.7	232.6	238.0	294.2	437.5	433.5	401.8	377.7	371.0
82.5°	191.1	157.2	174.1	201.4	199.6	242.9	370.6	368.3	337.5	302.3	291.5
85°	88.4	94.2	138.0	166.1	153.1	179.9	296.5	300.5	263.0	221.0	221.0
87.5°	37.5	52.7	97.8	125.5	103.1	121.4	217.4	207.6	190.6	132.2	124.1
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)