

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: P317391

Luminaire Tested: **GAN-SA7A-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31274 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

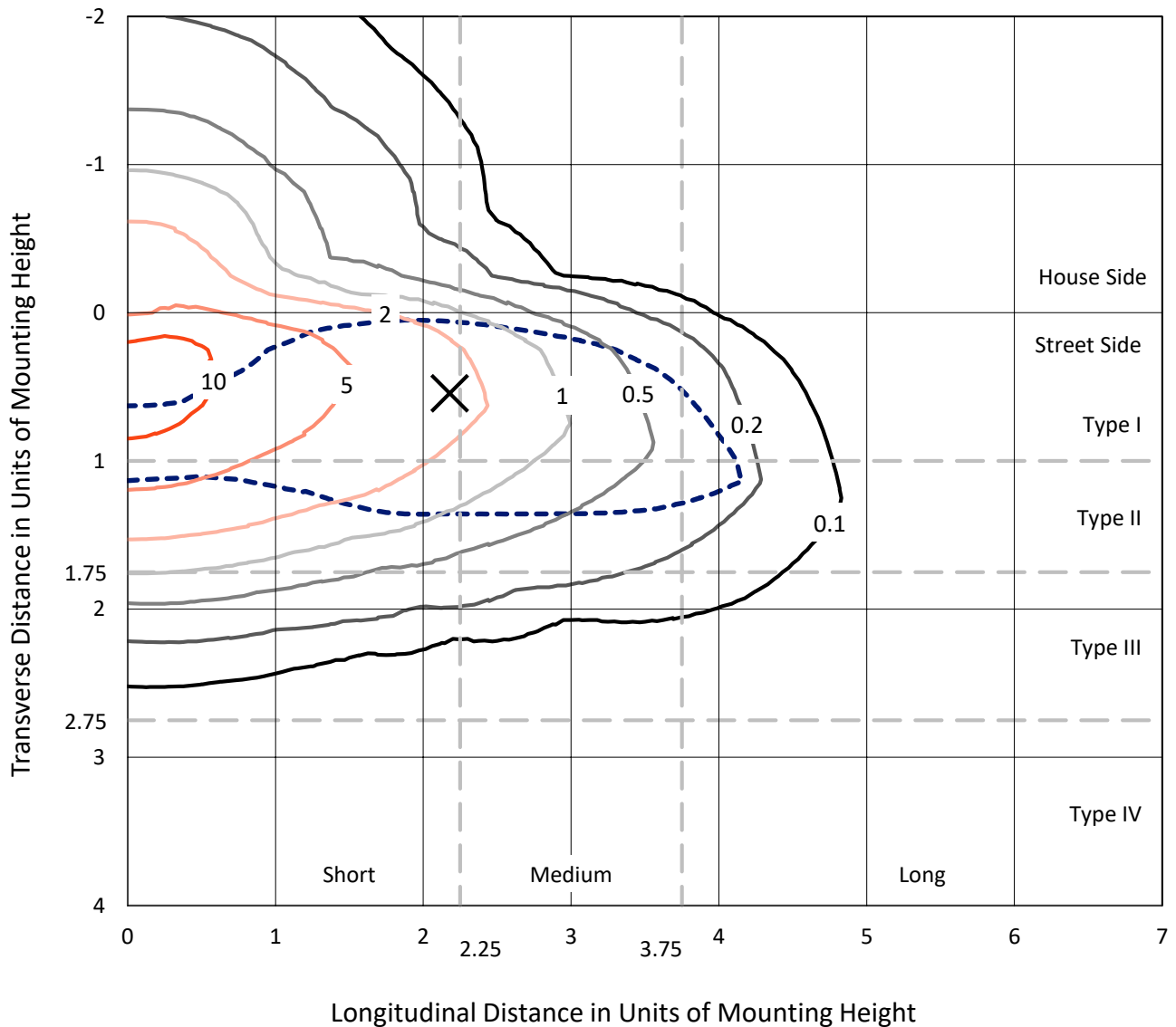
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

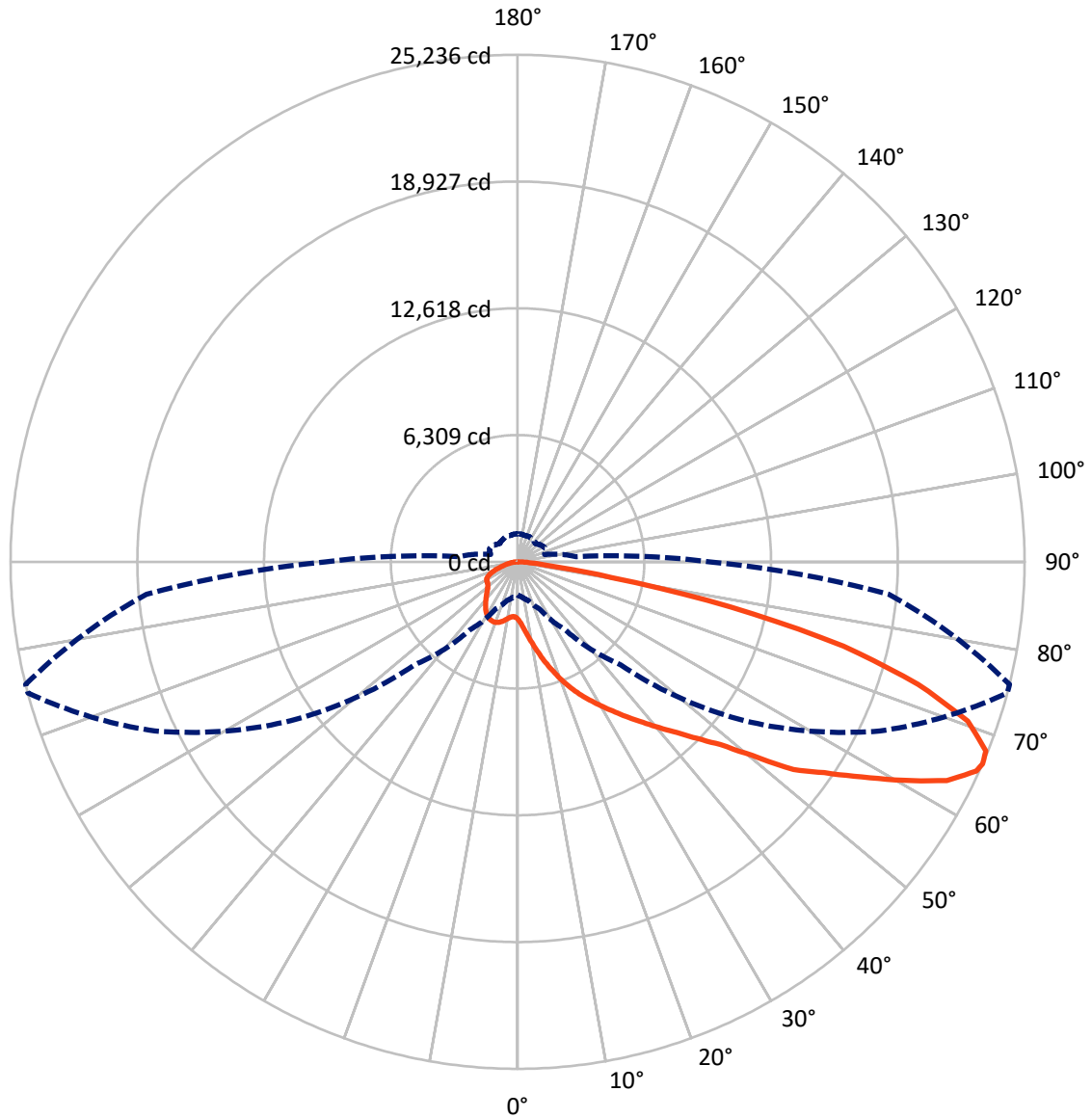
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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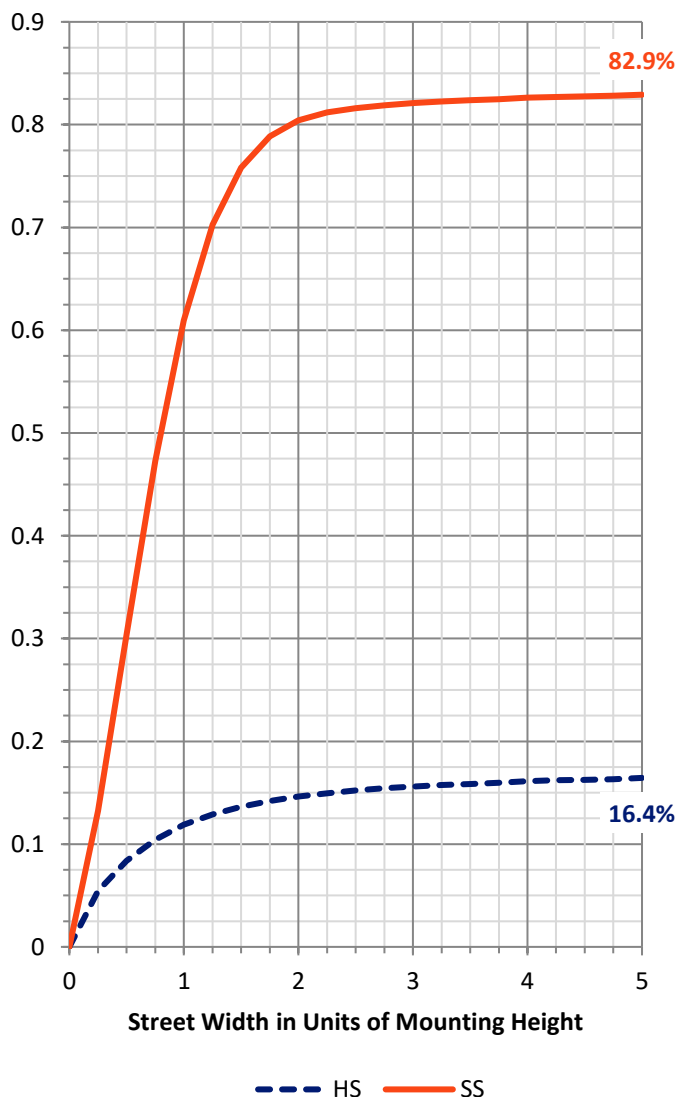
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5262.3	0.0	5262.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	26011.7	0.0	26011.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	31274.0	0.0	31274.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.4	1.1
10°-20°	1363.8	4.4
20°-30°	2650.3	8.5
30°-40°	4325.9	13.8
40°-50°	5910.2	18.9
50°-60°	6884.1	22.0
60°-70°	6171.8	19.7
70°-80°	3118.9	10.0
80°-90°	503.7	1.6
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°	31274.0	100.0
0°-180°	31274.0	100.0

**Coefficient of Utilization**

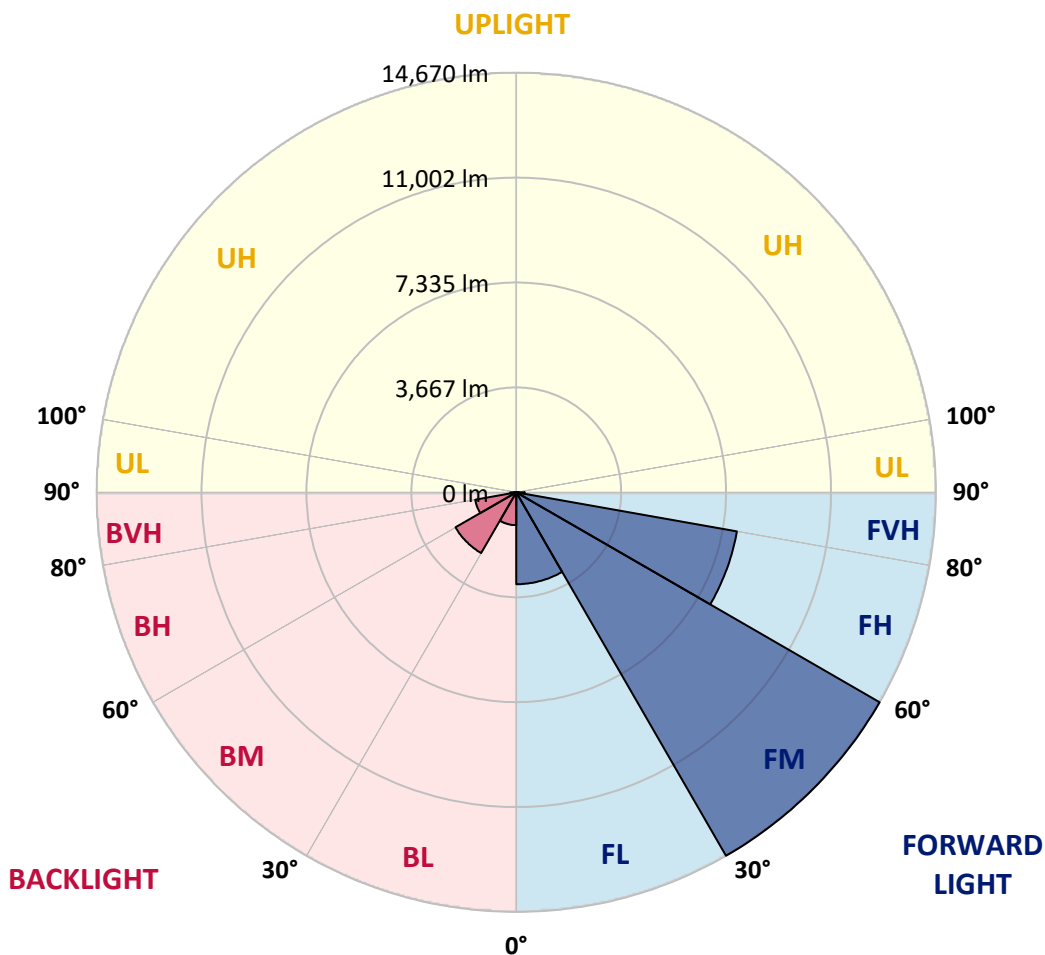


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3211.8	10.3			
FM (30°-60°)	14669.7	46.9			
FH (60°-80°)	7832.8	25.0			G4/12000
FVH (80°-90°)	297.4	1.0			G3/500
BL (0°-30°)	1147.7	3.7	B3/2500		
BM (30°-60°)	2450.5	7.8	B2/2500		
BH (60°-80°)	1457.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	206.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0
2.5°	3791.4	3734.1	3728.8	3644.9	3625.8	3465.4	3347.6	3224.4	3084.3	3056.7	2946.3
5°	4870.1	4864.8	4791.5	4654.6	4547.3	4273.4	4002.7	3716.0	3401.7	3350.8	3102.3
7.5°	5840.5	5832.0	5775.7	5628.2	5473.2	5136.6	4750.1	4310.6	3801.0	3725.6	3313.6
10°	6577.3	6574.2	6555.0	6446.8	6315.1	5992.3	5565.5	4965.7	4264.9	4161.9	3578.0
12.5°	7146.4	7152.8	7165.5	7127.3	7064.7	6789.7	6352.3	5660.0	4759.7	4657.8	3872.1
15°	7531.8	7550.9	7616.8	7670.9	7703.8	7535.0	7111.4	6370.3	5313.9	5191.8	4198.0
17.5°	7726.1	7747.4	7861.0	8024.5	8175.2	8158.2	7821.7	7047.7	5845.8	5728.0	4548.4
20°	7893.9	7909.8	8037.2	8233.6	8500.1	8618.0	8429.0	7699.6	6428.7	6288.6	4920.0
22.5°	8380.1	8400.3	8438.5	8550.0	8785.7	9002.3	8911.0	8316.4	6962.7	6832.2	5272.5
25°	9318.7	9343.1	9260.3	9165.8	9210.4	9361.2	9378.2	8879.1	7504.2	7356.6	5651.5
27.5°	10449.4	10484.5	10343.3	10100.1	9887.8	9829.4	9809.2	9339.9	8021.3	7850.3	6026.3
30°	11556.8	11617.3	11433.6	11118.3	10728.7	10454.7	10251.9	9791.2	8530.9	8367.4	6379.9
32.5°	12638.7	12614.3	12347.8	12039.9	11583.3	11240.4	10749.9	10275.3	9104.2	8916.3	6731.3
35°	13379.8	13388.3	13140.9	12775.7	12340.3	12077.0	11416.7	10797.7	9689.2	9516.2	7130.5
37.5°	14010.4	13971.1	13690.9	13350.0	12975.3	12862.7	12197.0	11373.1	10323.1	10134.1	7555.2
40°	14220.7	14175.0	13991.3	13746.1	13445.6	13436.0	13058.1	12025.0	11039.7	10852.9	8034.0
42.5°	14093.2	14034.9	13959.5	13892.6	13800.2	13842.7	13867.1	12789.5	11827.5	11618.4	8588.2
45°	13622.9	13534.8	13587.9	13733.3	13934.0	14173.9	14597.6	13635.6	12709.8	12534.6	9239.1
47.5°	12899.9	12820.2	12985.9	13297.0	13842.7	14450.0	15288.7	14570.0	13763.1	13588.9	10166.0
50°	11882.7	11906.1	12142.9	12708.8	13533.7	14577.4	16140.2	15806.9	15294.0	15131.6	11430.5
52.5°	10213.7	10218.0	10884.7	11813.7	12985.9	14511.6	16612.7	17387.8	17384.6	17188.2	12634.4
55°	8663.6	8758.1	9285.8	10520.6	12098.3	14248.3	16942.9	18156.4	18757.4	18527.0	13756.7
57.5°	7149.6	7204.8	7704.9	8945.0	10831.6	13546.5	17281.6	19079.1	20339.3	20193.9	15151.8
60°	5427.5	5512.4	6029.5	7175.1	9211.5	12301.1	17313.4	20042.1	22230.3	22083.7	16709.3
62.5°	3522.8	3669.3	4153.4	5226.8	7251.5	10509.9	16574.5	20671.7	24022.4	23970.4	18091.7
65°	2024.7	2135.1	2471.7	3299.8	5002.8	8261.2	14817.3	20429.6	25125.6	25095.8	18608.7
66°	1654.2	1723.2	1981.2	2578.9	4128.0	7254.7	13796.0	19918.9	25234.9	25236.0	18549.3
67.5°	1322.9	1353.7	1469.4	1846.3	3046.1	5750.3	11970.9	18792.4	25099.0	25136.2	18166.0
70°	1094.6	1110.6	1146.7	1238.0	1662.7	3467.6	8496.9	15865.3	23734.7	23763.4	16670.0
72.5°	982.1	991.6	1005.4	1018.2	1173.2	1937.6	5189.7	12691.8	20809.7	20846.8	14390.5
75°	889.7	895.0	892.9	894.0	984.2	1234.8	2681.9	9475.8	16826.1	16751.8	11023.8
77.5°	781.4	786.7	776.1	778.2	870.6	949.2	1334.6	6633.6	11355.1	10830.6	6211.1
80°	660.4	664.6	660.4	667.8	758.1	716.7	776.1	3731.9	5020.9	4749.1	2208.4
82.5°	499.0	517.1	529.8	559.5	624.3	509.6	519.2	1453.5	1528.9	1455.6	677.4
85°	218.7	266.5	399.2	427.9	469.3	305.8	340.8	592.4	622.2	603.1	246.3
87.5°	57.3	62.6	197.5	248.4	260.1	138.0	177.3	269.7	284.5	269.7	81.8
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°	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0
2.5°	2887.9	2835.8	2742.4	2659.6	2597.0	2554.5	2512.0	2490.8	2478.0	2465.3	2467.4
5°	2980.2	2875.1	2714.8	2601.2	2537.5	2497.2	2475.9	2467.4	2462.1	2449.4	2449.4
7.5°	3119.3	2970.7	2749.8	2633.1	2583.2	2552.4	2539.6	2535.4	2529.0	2514.1	2516.3
10°	3294.5	3086.4	2823.1	2709.5	2663.9	2629.9	2611.8	2605.5	2593.8	2576.8	2578.9
12.5°	3500.5	3229.7	2919.7	2800.8	2745.6	2699.9	2670.2	2652.2	2632.0	2609.7	2610.8
15°	3725.6	3385.8	3023.8	2882.6	2807.2	2743.5	2695.7	2664.9	2633.1	2605.5	2604.4
17.5°	3953.8	3536.6	3103.4	2927.2	2825.2	2741.4	2676.6	2628.8	2589.5	2555.6	2552.4
20°	4200.2	3672.5	3148.0	2922.9	2791.3	2691.5	2605.5	2546.0	2502.5	2468.5	2463.2
22.5°	4450.7	3799.9	3155.4	2879.4	2715.9	2593.8	2503.5	2437.7	2393.1	2358.1	2345.3
25°	4680.1	3898.6	3124.6	2795.5	2610.8	2479.1	2391.0	2324.1	2288.0	2246.6	2233.9
27.5°	4889.2	3967.6	3063.1	2688.3	2492.9	2363.4	2280.6	2223.2	2184.0	2152.1	2141.5
30°	5077.1	4004.8	2962.2	2560.9	2371.9	2254.0	2184.0	2144.7	2110.7	2070.4	2062.9
32.5°	5255.5	4004.8	2832.7	2421.8	2251.9	2157.4	2116.0	2091.6	2053.4	2014.1	2003.5
35°	5433.9	3980.4	2679.8	2276.3	2141.5	2088.4	2086.3	2057.6	1999.2	1946.1	1932.3
37.5°	5621.8	3930.5	2507.8	2140.4	2051.2	2057.6	2075.7	2012.0	1929.1	1853.8	1833.6
40°	5834.1	3861.5	2329.4	2022.6	1975.9	2043.8	2047.0	1946.1	1784.7	1715.7	1697.7
42.5°	6083.6	3792.5	2163.8	1918.5	1916.4	2002.4	1992.8	1803.9	1707.2	1672.2	1662.7
45°	6411.7	3753.2	2006.6	1819.8	1869.7	1935.5	1900.5	1725.3	1684.9	1664.8	1656.3
47.5°	6928.8	3773.3	1862.3	1741.2	1823.0	1868.6	1728.5	1693.4	1664.8	1640.4	1631.9
50°	7576.4	3761.7	1745.5	1687.1	1769.9	1798.6	1651.0	1652.0	1637.2	1609.6	1596.8
52.5°	8063.7	3670.4	1670.1	1656.3	1723.2	1674.3	1602.1	1611.7	1604.3	1563.9	1550.1
55°	8534.1	3591.8	1631.9	1644.6	1689.2	1519.3	1544.8	1568.2	1560.7	1521.4	1515.1
57.5°	9119.1	3576.9	1608.5	1647.8	1660.5	1441.8	1489.6	1520.4	1515.1	1498.1	1494.9
60°	9835.8	3581.2	1587.3	1653.1	1628.7	1384.5	1437.6	1476.8	1480.0	1476.8	1474.7
62.5°	10229.7	3465.4	1534.2	1638.2	1572.4	1334.6	1383.4	1440.8	1441.8	1448.2	1447.1
65°	9895.2	3119.3	1435.4	1586.2	1477.9	1293.2	1336.7	1399.3	1383.4	1412.1	1412.1
66°	9570.3	2919.7	1386.6	1552.2	1437.6	1277.2	1321.8	1378.1	1357.9	1397.2	1397.2
67.5°	8906.8	2583.2	1298.5	1480.0	1380.2	1255.0	1304.9	1343.1	1315.5	1373.9	1369.6
70°	7694.3	1998.2	1121.2	1316.5	1285.7	1222.0	1281.5	1273.0	1232.7	1321.8	1304.9
72.5°	6487.1	1518.3	900.3	1102.1	1142.4	1180.6	1248.6	1183.8	1132.9	1195.5	1158.3
75°	5033.6	1141.3	711.4	856.8	965.1	1115.9	1209.3	1080.8	1007.6	1001.2	981.0
77.5°	2721.2	783.5	563.8	654.0	766.6	1035.2	1182.8	970.4	860.0	834.5	818.6
80°	1077.6	509.6	409.8	495.8	536.2	918.4	1119.1	841.9	709.2	683.7	659.3
82.5°	444.9	301.5	264.4	332.3	349.3	785.7	1004.4	690.1	547.8	758.1	804.8
85°	191.1	165.6	157.1	172.0	197.5	551.0	799.5	526.6	591.4	527.7	419.4
87.5°	57.3	70.1	66.9	65.8	72.2	131.7	425.7	293.0	434.2	164.6	123.2
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)