

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: P317399

Luminaire Tested: **GAN-SA5B-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317399  
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-SA5B-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27097 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

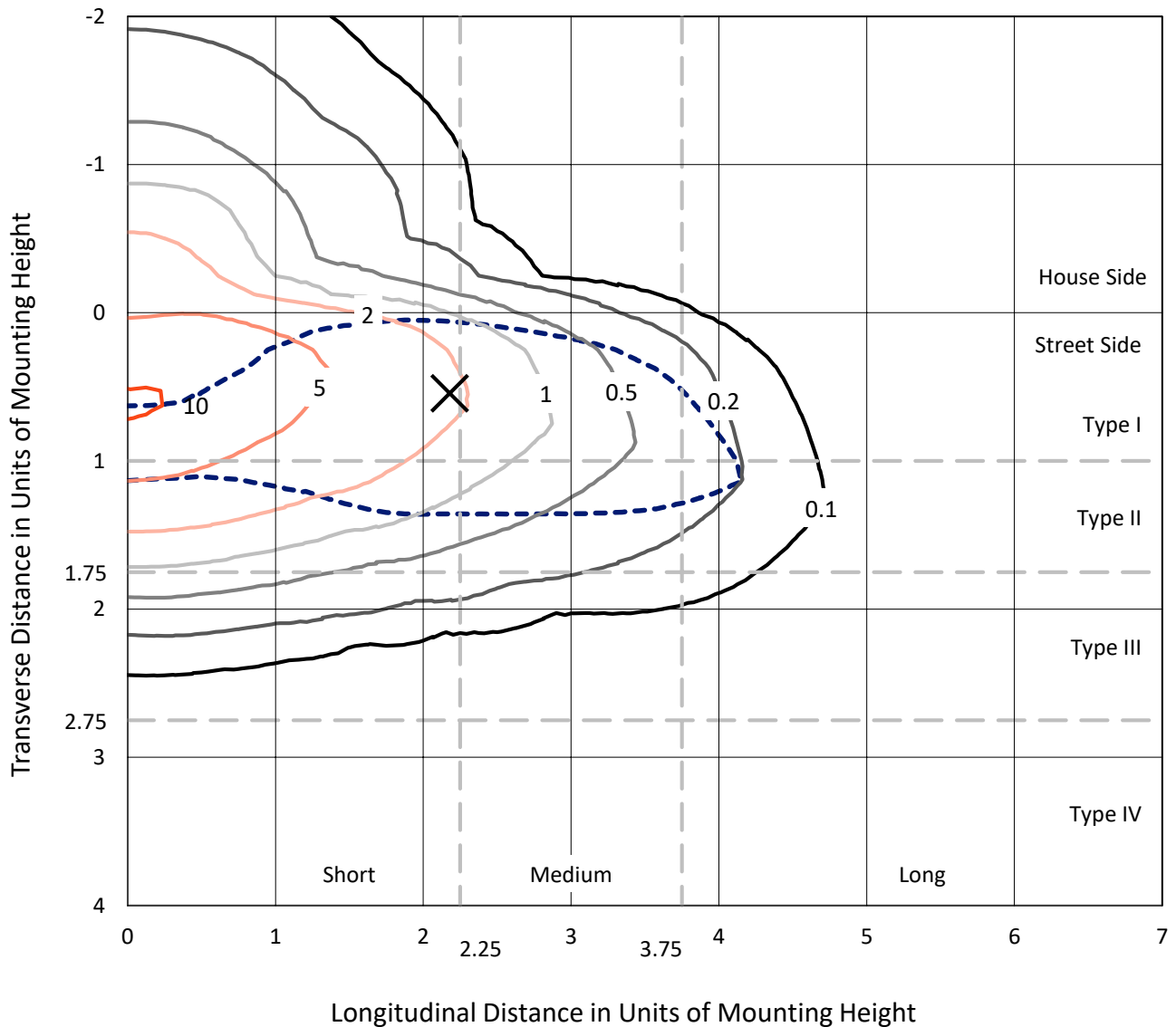
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

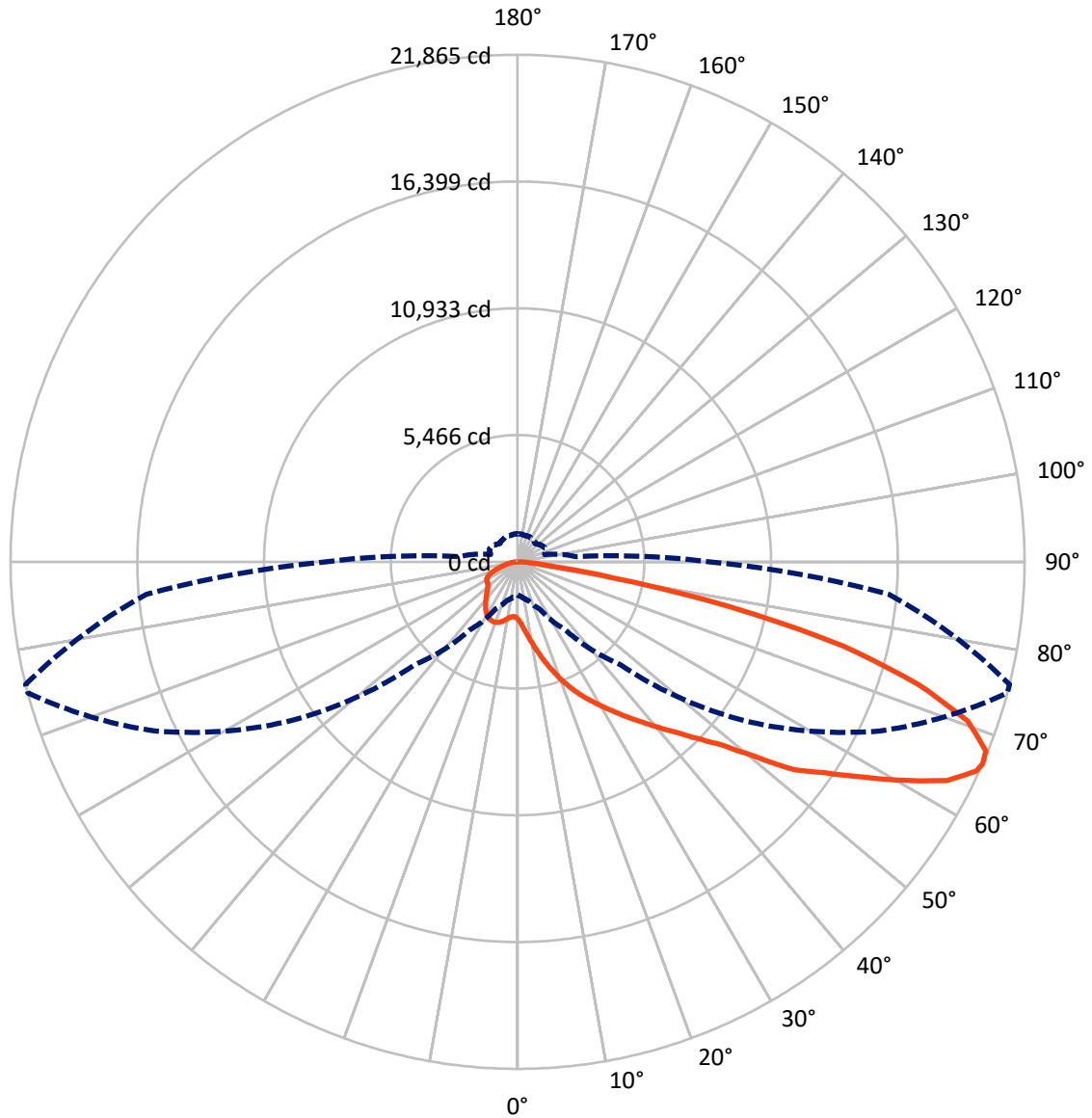
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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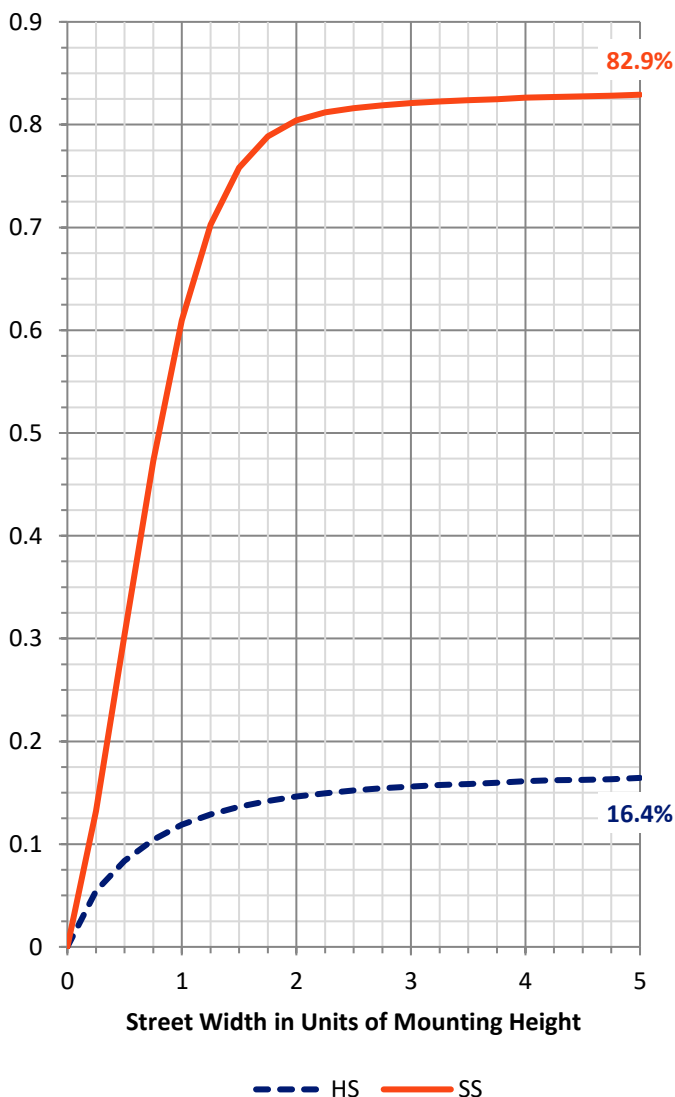
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4559.5	0.0	4559.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	22537.5	0.0	22537.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	27097.0	0.0	27097.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.2	1.1
10°-20°	1181.7	4.4
20°-30°	2296.3	8.5
30°-40°	3748.1	13.8
40°-50°	5120.8	18.9
50°-60°	5964.7	22.0
60°-70°	5347.4	19.7
70°-80°	2702.4	10.0
80°-90°	436.4	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°	27097.0	100.0
0°-180°	27097.0	100.0

**Coefficient of Utilization**

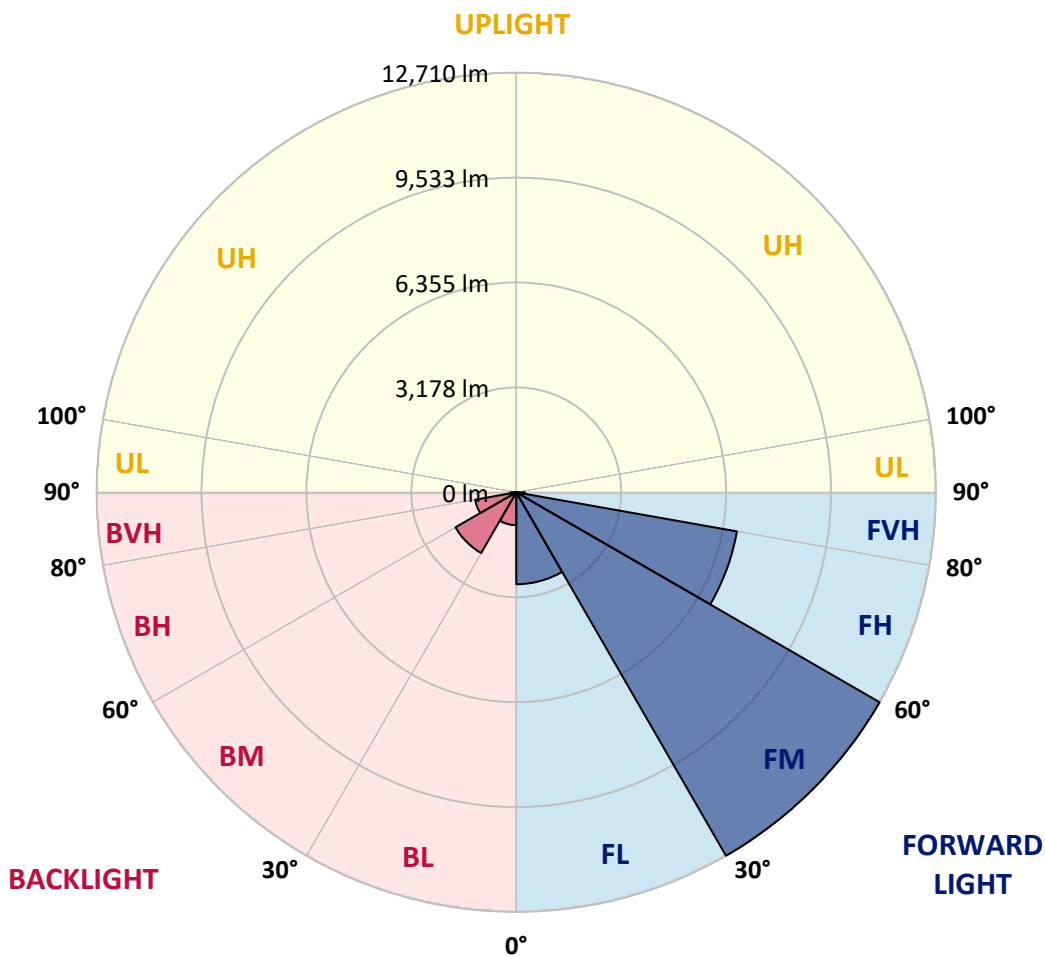


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.8	10.3			
FM (30°-60°)	12710.4	46.9			
FH (60°-80°)	6786.6	25.0			G3/7500
FVH (80°-90°)	257.7	1.0			G3/500
BL (0°-30°)	994.4	3.7	B2/1000		
BM (30°-60°)	2123.2	7.8	B2/2500		
BH (60°-80°)	1263.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	178.7	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6
2.5°	3285.0	3235.3	3230.7	3158.1	3141.5	3002.6	2900.5	2793.8	2672.3	2648.4	2552.8
5°	4219.6	4215.0	4151.6	4032.9	3940.0	3702.7	3468.1	3219.7	2947.4	2903.2	2688.0
7.5°	5060.4	5053.1	5004.3	4876.5	4742.2	4450.5	4115.7	3734.8	3293.3	3228.0	2871.0
10°	5698.9	5696.1	5679.5	5585.7	5471.6	5192.0	4822.2	4302.4	3695.3	3606.1	3100.1
12.5°	6191.9	6197.5	6208.5	6175.4	6121.1	5882.8	5503.8	4904.1	4124.0	4035.7	3354.9
15°	6525.9	6542.4	6599.5	6646.4	6674.9	6528.6	6161.6	5519.5	4604.2	4498.4	3637.3
17.5°	6694.2	6712.6	6811.0	6952.7	7083.3	7068.6	6777.0	6106.4	5065.0	4962.9	3940.9
20°	6839.6	6853.4	6963.7	7133.9	7364.8	7466.9	7303.2	6671.2	5570.1	5448.6	4262.9
22.5°	7260.9	7278.4	7311.5	7408.1	7612.3	7799.9	7720.8	7205.7	6032.8	5919.6	4568.3
25°	8074.1	8095.2	8023.5	7941.6	7980.2	8110.9	8125.6	7693.2	6501.9	6374.1	4896.7
27.5°	9053.8	9084.1	8961.8	8751.1	8567.2	8516.6	8499.1	8092.5	6949.9	6801.8	5221.4
30°	10013.3	10065.7	9906.5	9633.3	9295.7	9058.4	8882.7	8483.4	7391.5	7249.8	5527.8
32.5°	10950.7	10929.5	10698.6	10431.8	10036.3	9739.1	9314.1	8902.9	7888.3	7725.4	5832.3
35°	11592.7	11600.1	11385.8	11069.3	10692.2	10464.0	9891.8	9355.5	8395.1	8245.2	6178.1
37.5°	12139.2	12105.1	11862.3	11567.0	11242.3	11144.8	10568.0	9854.1	8944.3	8780.6	6546.1
40°	12321.3	12281.8	12122.6	11910.1	11649.8	11641.5	11314.0	10418.9	9565.3	9403.4	6961.0
42.5°	12210.9	12160.3	12095.0	12037.1	11957.0	11993.8	12015.0	11081.3	10247.8	10066.6	7441.2
45°	11803.4	11727.1	11773.1	11899.1	12072.9	12280.8	12647.9	11814.4	11012.3	10860.5	8005.1
47.5°	11176.9	11108.0	11251.5	11521.0	11993.8	12520.0	13246.8	12624.0	11924.8	11774.0	8808.2
50°	10295.7	10315.9	10521.1	11011.4	11726.1	12630.4	13984.5	13695.7	13251.4	13110.6	9903.8
52.5°	8849.6	8853.2	9431.0	10235.9	11251.5	12573.4	14393.9	15065.4	15062.7	14892.5	10947.0
55°	7506.5	7588.4	8045.6	9115.4	10482.4	12345.2	14680.0	15731.4	16252.1	16052.5	11919.3
57.5°	6194.7	6242.5	6675.8	7750.3	9385.0	11737.2	14973.4	16530.8	17622.8	17496.8	13128.1
60°	4702.6	4776.2	5224.2	6216.8	7981.2	10658.1	15001.0	17365.2	19261.1	19134.2	14477.6
62.5°	3052.3	3179.2	3598.7	4528.7	6283.0	9106.2	14360.8	17910.7	20814.0	20768.9	15675.3
65°	1754.3	1849.9	2141.6	2859.1	4334.6	7157.8	12838.3	17701.0	21769.8	21744.0	16123.3
66°	1433.2	1493.0	1716.6	2234.5	3576.6	6285.8	11953.4	17258.5	21864.5	21865.4	16071.8
67.5°	1146.2	1172.9	1273.2	1599.7	2639.2	4982.3	10372.0	16282.5	21746.8	21779.0	15739.7
70°	948.4	962.2	993.5	1072.6	1440.6	3004.4	7362.1	13746.3	20564.7	20589.5	14443.6
72.5°	850.9	859.2	871.2	882.2	1016.5	1678.8	4496.5	10996.6	18030.3	18062.5	12468.5
75°	770.9	775.5	773.6	774.6	852.8	1069.9	2323.7	8210.2	14578.8	14514.4	9551.5
77.5°	677.1	681.7	672.5	674.3	754.3	822.4	1156.3	5747.6	9838.5	9384.0	5381.5
80°	572.2	575.9	572.2	578.6	656.8	620.9	672.5	3233.5	4350.3	4114.8	1913.4
82.5°	432.4	448.0	459.0	484.8	540.9	441.6	449.8	1259.4	1324.7	1261.2	586.9
85°	189.5	230.9	345.9	370.7	406.6	264.9	295.3	513.3	539.1	522.5	213.4
87.5°	49.7	54.3	171.1	215.3	225.4	119.6	153.6	233.7	246.5	233.7	70.8
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°	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6	2474.6
2.5°	2502.2	2457.1	2376.1	2304.4	2250.1	2213.3	2176.5	2158.1	2147.1	2136.0	2137.9
5°	2582.2	2491.1	2352.2	2253.8	2198.6	2163.6	2145.2	2137.9	2133.3	2122.2	2122.2
7.5°	2702.7	2573.9	2382.6	2281.4	2238.1	2211.5	2200.4	2196.8	2191.2	2178.4	2180.2
10°	2854.5	2674.2	2446.0	2347.6	2308.1	2278.6	2263.0	2257.5	2247.3	2232.6	2234.5
12.5°	3033.0	2798.4	2529.8	2426.7	2378.9	2339.3	2313.6	2297.9	2280.5	2261.1	2262.1
15°	3228.0	2933.6	2619.9	2497.6	2432.3	2377.1	2335.7	2309.0	2281.4	2257.5	2256.5
17.5°	3425.8	3064.2	2688.9	2536.2	2447.9	2375.2	2319.1	2277.7	2243.7	2214.2	2211.5
20°	3639.2	3182.0	2727.5	2532.5	2418.5	2332.0	2257.5	2206.0	2168.2	2138.8	2134.2
22.5°	3856.3	3292.4	2734.0	2494.8	2353.1	2247.3	2169.2	2112.1	2073.5	2043.1	2032.1
25°	4055.0	3377.9	2707.3	2422.1	2262.1	2148.0	2071.6	2013.7	1982.4	1946.5	1935.5
27.5°	4236.2	3437.7	2654.0	2329.2	2160.0	2047.7	1976.0	1926.3	1892.3	1864.7	1855.5
30°	4399.0	3469.9	2566.6	2218.8	2055.1	1953.0	1892.3	1858.2	1828.8	1793.8	1787.4
32.5°	4553.6	3469.9	2454.3	2098.3	1951.1	1869.3	1833.4	1812.2	1779.1	1745.1	1735.9
35°	4708.1	3448.8	2321.9	1972.3	1855.5	1809.5	1807.6	1782.8	1732.2	1686.2	1674.2
37.5°	4870.9	3405.5	2172.8	1854.5	1777.3	1782.8	1798.4	1743.2	1671.5	1606.2	1588.7
40°	5054.9	3345.7	2018.3	1752.4	1712.0	1770.8	1773.6	1686.2	1546.4	1486.6	1470.9
42.5°	5271.1	3285.9	1874.8	1662.3	1660.4	1735.0	1726.7	1562.9	1479.2	1448.9	1440.6
45°	5555.4	3251.9	1738.6	1576.7	1620.0	1677.0	1646.6	1494.9	1459.9	1442.4	1435.1
47.5°	6003.4	3269.4	1613.5	1508.7	1579.5	1619.0	1497.6	1467.3	1442.4	1421.3	1413.9
50°	6564.5	3259.3	1512.3	1461.7	1533.5	1558.3	1430.5	1431.4	1418.5	1394.6	1383.5
52.5°	6986.7	3180.1	1447.0	1435.1	1493.0	1450.7	1388.1	1396.4	1390.0	1355.0	1343.1
55°	7394.3	3112.1	1413.9	1424.9	1463.6	1316.4	1338.5	1358.7	1352.3	1318.2	1312.7
57.5°	7901.1	3099.2	1393.7	1427.7	1438.7	1249.2	1290.6	1317.3	1312.7	1298.0	1295.2
60°	8522.1	3102.9	1375.3	1432.3	1411.1	1199.6	1245.6	1279.6	1282.4	1279.6	1277.8
62.5°	8863.4	3002.6	1329.3	1419.4	1362.4	1156.3	1198.6	1248.3	1249.2	1254.8	1253.8
65°	8573.6	2702.7	1243.7	1374.4	1280.5	1120.5	1158.2	1212.4	1198.6	1223.5	1223.5
66°	8292.1	2529.8	1201.4	1344.9	1245.6	1106.7	1145.3	1194.0	1176.6	1210.6	1210.6
67.5°	7717.2	2238.1	1125.1	1282.4	1195.9	1087.3	1130.6	1163.7	1139.8	1190.4	1186.7
70°	6666.6	1731.3	971.4	1140.7	1114.0	1058.8	1110.3	1103.0	1068.0	1145.3	1130.6
72.5°	5620.7	1315.5	780.1	954.9	989.8	1022.9	1081.8	1025.7	981.5	1035.8	1003.6
75°	4361.3	988.9	616.3	742.4	836.2	966.8	1047.8	936.5	873.0	867.5	850.0
77.5°	2357.7	678.9	488.5	566.7	664.2	896.9	1024.8	840.8	745.1	723.1	709.3
80°	933.7	441.6	355.1	429.6	464.6	795.7	969.6	729.5	614.5	592.4	571.3
82.5°	385.4	261.3	229.1	287.9	302.7	680.7	870.2	597.9	474.7	656.8	697.3
85°	165.6	143.5	136.1	149.0	171.1	477.4	692.7	456.3	512.4	457.2	363.4
87.5°	49.7	60.7	58.0	57.0	62.6	114.1	368.9	253.9	376.2	142.6	106.7
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)