

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: P317417

Luminaire Tested: **GAN-SA3D-730-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317417  
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-SA3D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22475 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

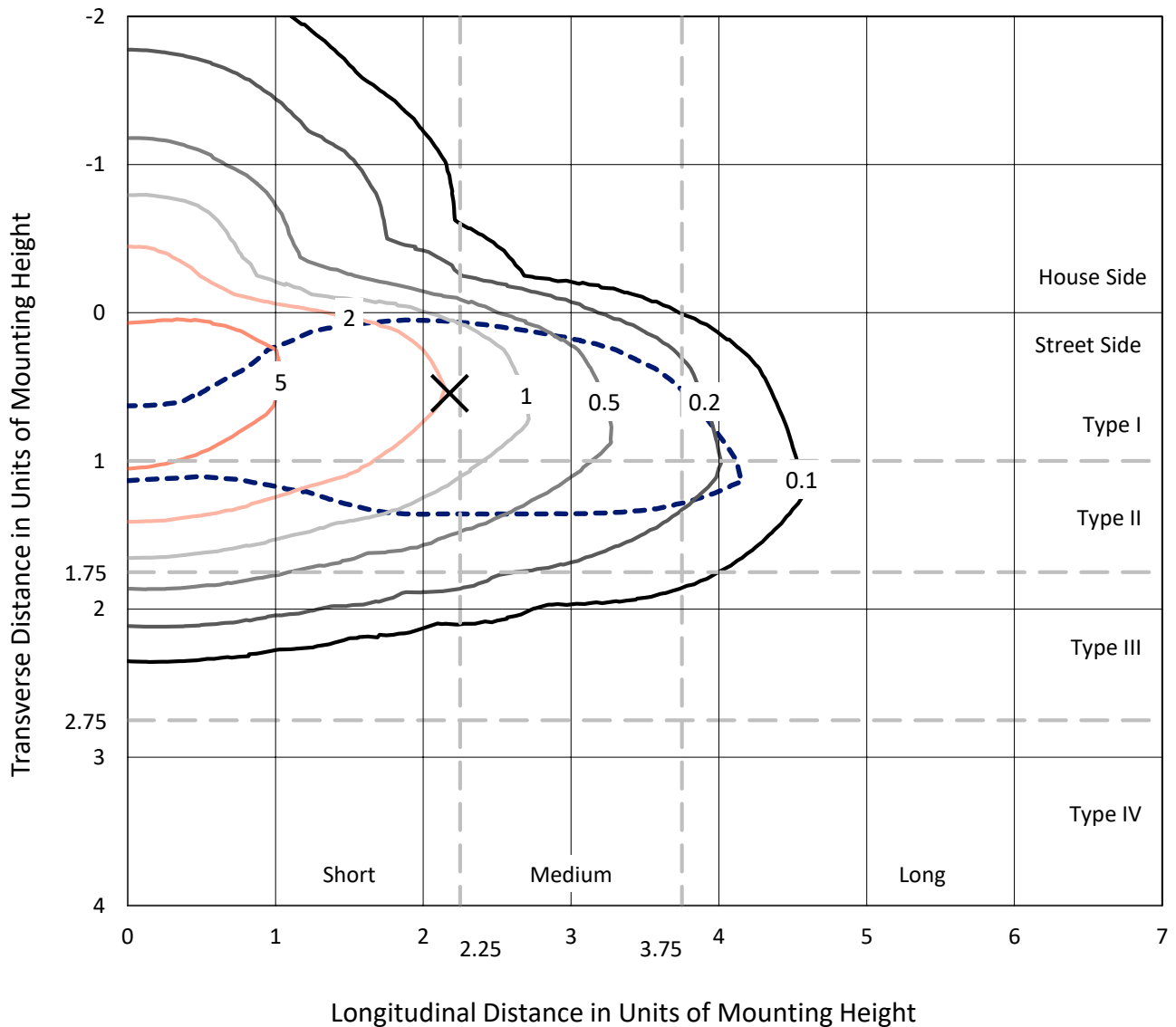
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

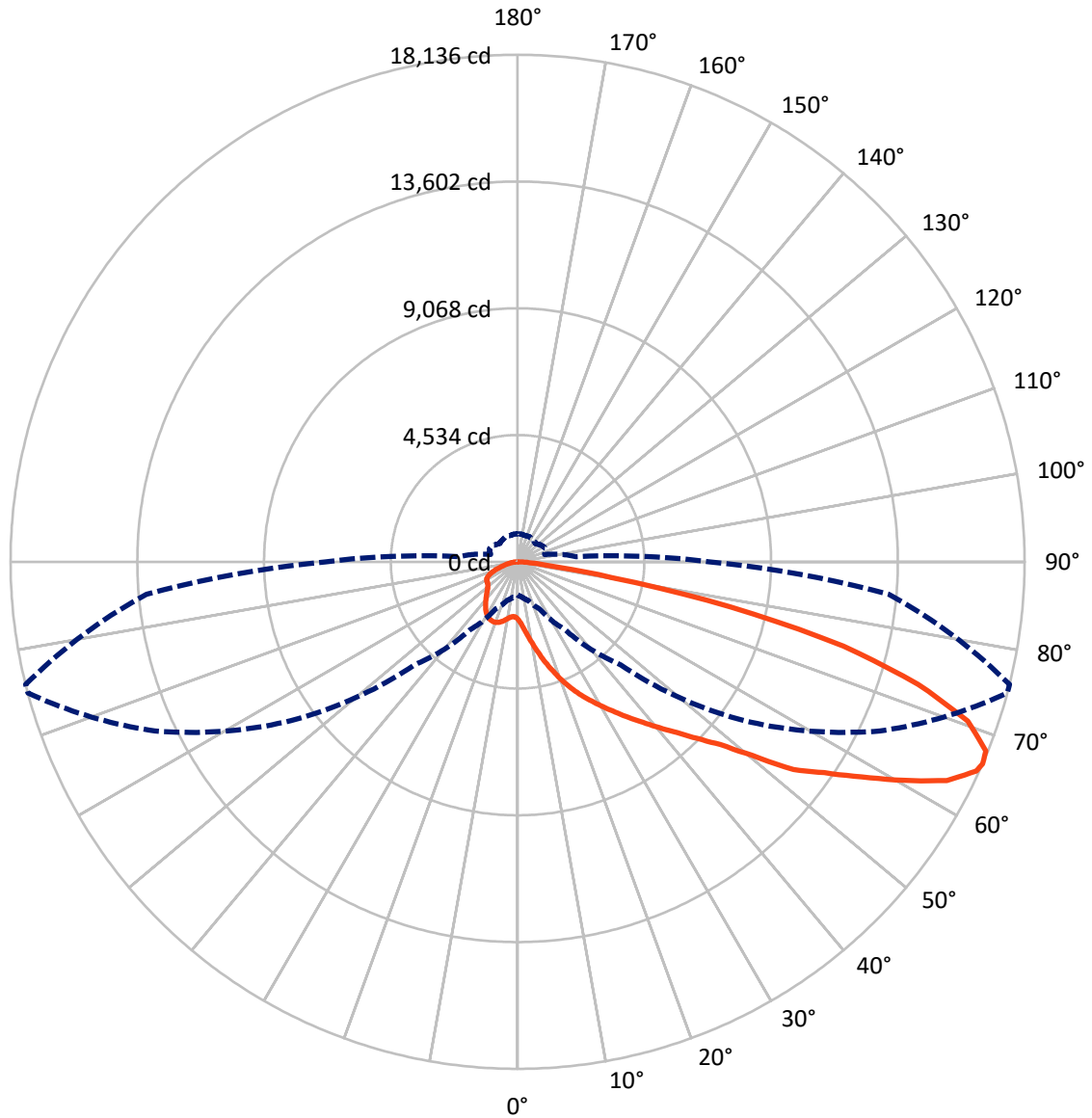
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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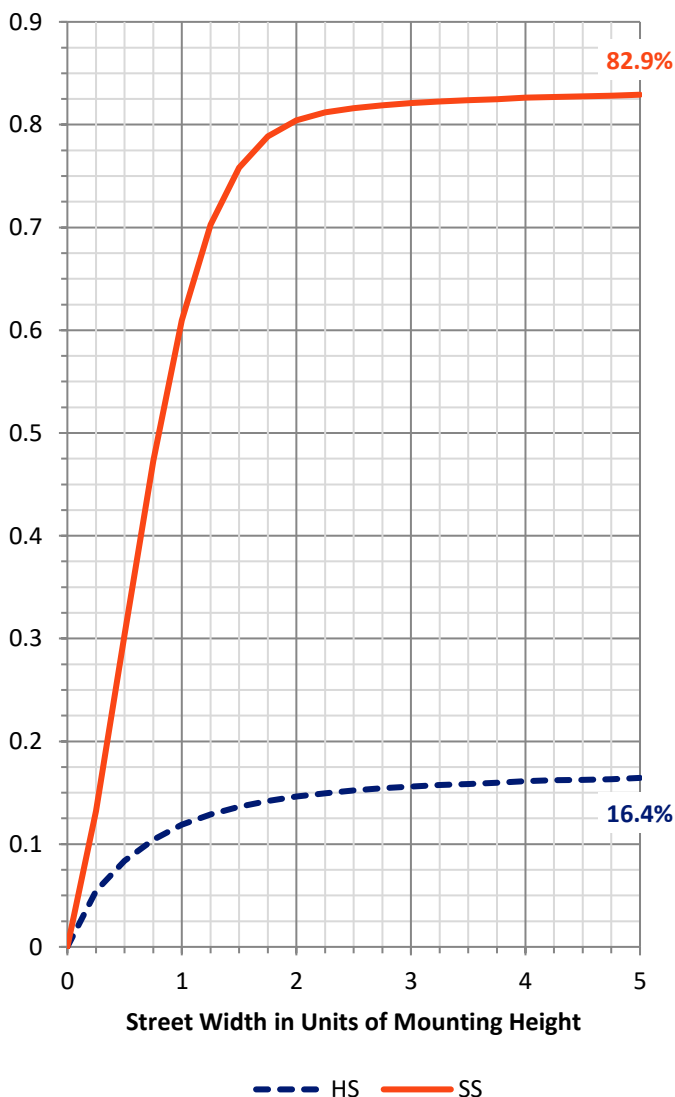
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3781.8	0.0	3781.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	18693.2	0.0	18693.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	22475.0	0.0	22475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	1.1
10°-20°	980.1	4.4
20°-30°	1904.6	8.5
30°-40°	3108.8	13.8
40°-50°	4247.3	18.9
50°-60°	4947.3	22.0
60°-70°	4435.3	19.7
70°-80°	2241.4	10.0
80°-90°	362.0	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°	22475.0	100.0
0°-180°	22475.0	100.0

**Coefficient of Utilization**



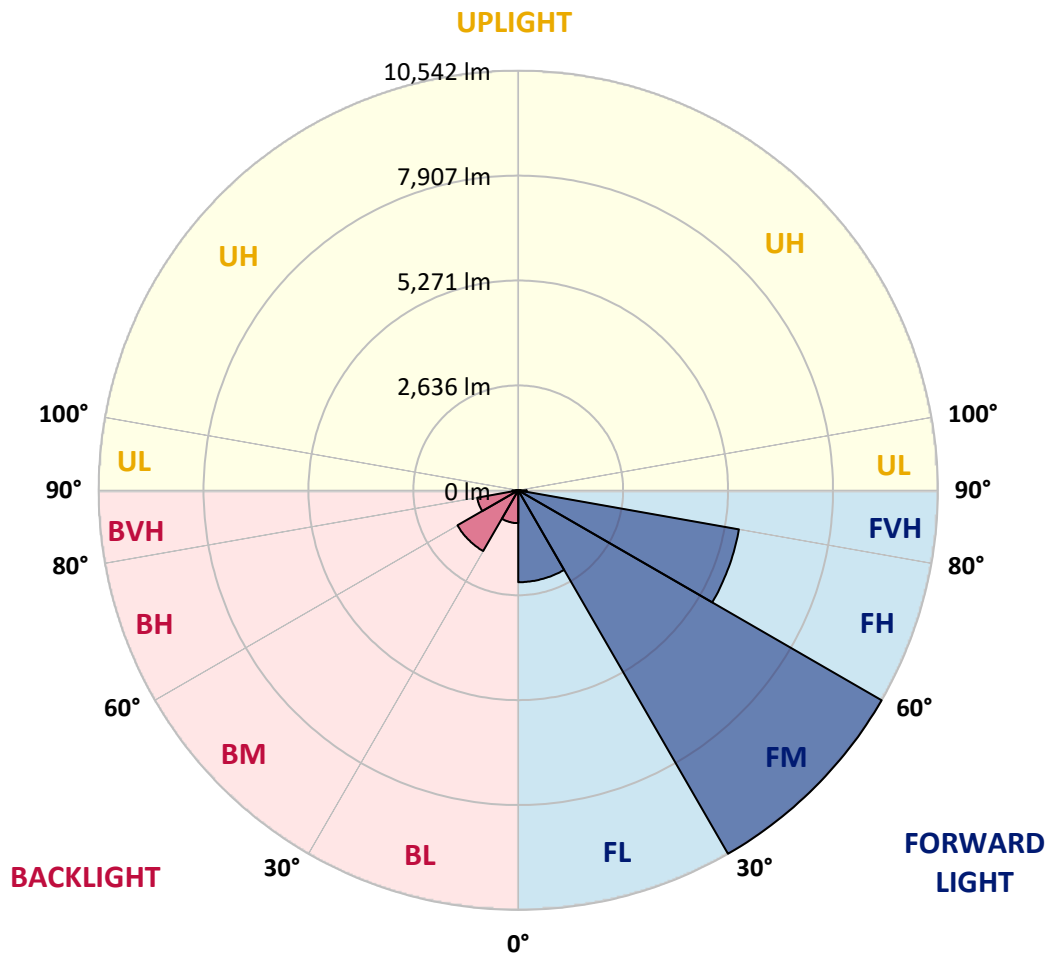
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2308.1	10.3			
FM (30°-60°)	10542.3	46.9			
FH (60°-80°)	5629.0	25.0			G3/7500
FVH (80°-90°)	213.8	1.0			G2/225
BL (0°-30°)	824.8	3.7	B2/1000		
BM (30°-60°)	1761.0	7.8	B2/2500		
BH (60°-80°)	1047.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5
2.5°	2724.7	2683.5	2679.7	2619.4	2605.7	2490.4	2405.7	2317.2	2216.5	2196.7	2117.3
5°	3499.9	3496.1	3443.4	3345.0	3267.9	3071.1	2876.5	2670.5	2444.7	2408.0	2229.5
7.5°	4197.3	4191.2	4150.7	4044.7	3933.3	3691.4	3413.7	3097.8	2731.5	2677.4	2381.3
10°	4726.8	4724.5	4710.8	4632.9	4538.3	4306.4	3999.7	3568.6	3065.0	2991.0	2571.3
12.5°	5135.8	5140.3	5149.5	5122.0	5077.0	4879.4	4565.0	4067.6	3420.5	3347.3	2782.7
15°	5412.7	5426.5	5473.8	5512.7	5536.3	5415.0	5110.6	4578.0	3818.8	3731.1	3016.9
17.5°	5552.4	5567.6	5649.3	5766.8	5875.1	5862.9	5621.0	5064.8	4201.1	4116.4	3268.7
20°	5672.9	5684.4	5775.9	5917.1	6108.6	6193.3	6057.5	5533.3	4620.0	4519.3	3535.7
22.5°	6022.4	6036.9	6064.3	6144.5	6313.8	6469.5	6403.9	5976.6	5003.8	4909.9	3789.1
25°	6696.9	6714.4	6654.9	6587.0	6619.0	6727.4	6739.6	6381.0	5392.9	5286.8	4061.5
27.5°	7509.5	7534.6	7433.2	7258.4	7105.8	7063.9	7049.4	6712.1	5764.5	5641.6	4330.8
30°	8305.3	8348.8	8216.8	7990.2	7710.1	7513.3	7367.5	7036.4	6130.7	6013.2	4584.9
32.5°	9082.8	9065.2	8873.7	8652.4	8324.3	8077.9	7725.4	7384.3	6542.7	6407.7	4837.4
35°	9615.3	9621.5	9443.7	9181.2	8868.4	8679.1	8204.6	7759.7	6963.2	6838.8	5124.3
37.5°	10068.6	10040.3	9838.9	9594.0	9324.6	9243.8	8765.4	8173.3	7418.7	7282.9	5429.5
40°	10219.6	10186.8	10054.8	9878.6	9662.7	9655.8	9384.2	8641.8	7933.7	7799.4	5773.6
42.5°	10128.1	10086.1	10031.9	9983.9	9917.5	9948.0	9965.6	9191.1	8499.8	8349.5	6171.9
45°	9790.1	9726.7	9764.9	9869.4	10013.6	10186.1	10490.5	9799.2	9133.9	9008.0	6639.6
47.5°	9270.5	9213.2	9332.3	9555.8	9948.0	10384.5	10987.2	10470.7	9890.8	9765.7	7305.7
50°	8539.5	8556.3	8726.4	9133.1	9726.0	10476.0	11599.2	11359.6	10991.0	10874.3	8214.5
52.5°	7340.1	7343.1	7822.3	8489.9	9332.3	10428.7	11938.7	12495.7	12493.4	12352.2	9079.7
55°	6226.1	6294.0	6673.2	7560.6	8694.4	10239.5	12176.0	13048.1	13479.9	13314.4	9886.2
57.5°	5138.1	5177.7	5537.1	6428.3	7784.1	9735.1	12419.4	13711.1	14616.8	14512.3	10888.8
60°	3900.5	3961.5	4333.1	5156.4	6619.8	8840.1	12442.3	14403.2	15975.7	15870.4	12008.1
62.5°	2531.6	2636.9	2984.9	3756.3	5211.3	7553.0	11911.2	14855.6	17263.7	17226.3	13001.5
65°	1455.0	1534.4	1776.3	2371.4	3595.3	5936.9	10648.5	14681.7	18056.4	18035.1	13373.1
66°	1188.8	1238.4	1423.8	1853.3	2966.6	5213.6	9914.4	14314.7	18135.0	18135.8	13330.4
67.5°	950.7	972.8	1056.0	1326.9	2189.1	4132.4	8602.8	13505.1	18037.4	18064.1	13055.0
70°	786.7	798.1	824.0	889.7	1194.9	2492.0	6106.3	11401.5	17056.9	17077.5	11979.9
72.5°	705.8	712.6	722.6	731.7	843.1	1392.5	3729.6	9120.9	14954.8	14981.5	10341.7
75°	639.4	643.2	641.7	642.4	707.3	887.4	1927.3	6809.8	12092.0	12038.6	7922.2
77.5°	561.6	565.4	557.8	559.3	625.7	682.1	959.1	4767.2	8160.3	7783.4	4463.6
80°	474.6	477.6	474.6	479.9	544.8	515.0	557.8	2682.0	3608.2	3412.9	1587.0
82.5°	358.6	371.6	380.7	402.1	448.6	366.2	373.1	1044.5	1098.7	1046.1	486.8
85°	157.2	191.5	286.9	307.5	337.2	219.7	244.9	425.8	447.1	433.4	177.0
87.5°	41.2	45.0	141.9	178.5	186.9	99.2	127.4	193.8	204.5	193.8	58.8
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°	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5	2052.5
2.5°	2075.4	2038.0	1970.8	1911.3	1866.3	1835.8	1805.3	1790.0	1780.8	1771.7	1773.2
5°	2141.7	2066.2	1951.0	1869.4	1823.6	1794.6	1779.3	1773.2	1769.4	1760.2	1760.2
7.5°	2241.7	2134.9	1976.2	1892.2	1856.4	1834.3	1825.1	1822.0	1817.5	1806.8	1808.3
10°	2367.6	2218.0	2028.8	1947.2	1914.4	1890.0	1877.0	1872.4	1864.0	1851.8	1853.3
12.5°	2515.6	2321.1	2098.3	2012.8	1973.1	1940.3	1918.9	1906.0	1891.5	1875.5	1876.2
15°	2677.4	2433.2	2173.0	2071.5	2017.4	1971.6	1937.3	1915.1	1892.2	1872.4	1871.6
17.5°	2841.4	2541.6	2230.3	2103.6	2030.3	1970.1	1923.5	1889.2	1861.0	1836.5	1834.3
20°	3018.4	2639.2	2262.3	2100.5	2005.9	1934.2	1872.4	1829.7	1798.4	1774.0	1770.2
22.5°	3198.5	2730.8	2267.6	2069.3	1951.8	1864.0	1799.2	1751.9	1719.8	1694.6	1685.5
25°	3363.3	2801.7	2245.5	2009.0	1876.2	1781.6	1718.3	1670.2	1644.3	1614.5	1605.4
27.5°	3513.6	2851.3	2201.3	1931.9	1791.5	1698.4	1638.9	1597.7	1569.5	1546.6	1539.0
30°	3648.7	2878.0	2128.8	1840.4	1704.5	1619.9	1569.5	1541.3	1516.8	1487.9	1482.5
32.5°	3776.9	2878.0	2035.7	1740.4	1618.3	1550.4	1520.7	1503.1	1475.6	1447.4	1439.8
35°	3905.0	2860.5	1925.8	1635.9	1539.0	1500.8	1499.3	1478.7	1436.7	1398.6	1388.7
37.5°	4040.1	2824.6	1802.2	1538.2	1474.1	1478.7	1491.7	1445.9	1386.4	1332.2	1317.7
40°	4192.7	2775.0	1674.0	1453.5	1419.9	1468.8	1471.1	1398.6	1282.6	1233.0	1220.0
42.5°	4372.0	2725.4	1555.0	1378.7	1377.2	1439.0	1432.2	1296.3	1226.9	1201.7	1194.9
45°	4607.8	2697.2	1442.1	1307.8	1343.6	1391.0	1365.8	1239.9	1210.9	1196.4	1190.3
47.5°	4979.3	2711.7	1338.3	1251.3	1310.1	1342.9	1242.2	1217.0	1196.4	1178.8	1172.7
50°	5444.8	2703.3	1254.4	1212.4	1271.9	1292.5	1186.5	1187.2	1176.5	1156.7	1147.6
52.5°	5795.0	2637.7	1200.2	1190.3	1238.4	1203.3	1151.4	1158.2	1152.9	1123.9	1114.0
55°	6133.0	2581.2	1172.7	1181.9	1213.9	1091.9	1110.2	1127.0	1121.6	1093.4	1088.8
57.5°	6553.4	2570.6	1155.9	1184.2	1193.3	1036.2	1070.5	1092.6	1088.8	1076.6	1074.3
60°	7068.4	2573.6	1140.7	1188.0	1170.4	995.0	1033.1	1061.3	1063.6	1061.3	1059.8
62.5°	7351.5	2490.4	1102.5	1177.3	1130.0	959.1	994.2	1035.4	1036.2	1040.7	1040.0
65°	7111.2	2241.7	1031.6	1139.9	1062.1	929.3	960.6	1005.6	994.2	1014.8	1014.8
66°	6877.7	2098.3	996.5	1115.5	1033.1	917.9	949.9	990.4	975.9	1004.1	1004.1
67.5°	6400.8	1856.4	933.2	1063.6	991.9	901.9	937.7	965.2	945.4	987.3	984.3
70°	5529.5	1436.0	805.7	946.1	924.0	878.2	920.9	914.8	885.8	949.9	937.7
72.5°	4661.9	1091.1	647.0	792.0	821.0	848.5	897.3	850.7	814.1	859.1	832.4
75°	3617.4	820.2	511.2	615.7	693.6	801.9	869.1	776.7	724.1	719.5	705.0
77.5°	1955.6	563.1	405.2	470.0	550.9	743.9	850.0	697.4	618.0	599.7	588.3
80°	774.4	366.2	294.5	356.3	385.3	660.0	804.2	605.1	509.7	491.4	473.8
82.5°	319.7	216.7	190.0	238.8	251.0	564.6	721.8	496.0	393.7	544.8	578.4
85°	137.3	119.0	112.9	123.6	141.9	396.0	574.5	378.4	425.0	379.2	301.4
87.5°	41.2	50.4	48.1	47.3	51.9	94.6	306.0	210.6	312.1	118.3	88.5
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)