

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: P317457

Luminaire Tested: **GAN-SA3D-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317457  
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-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 24680 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

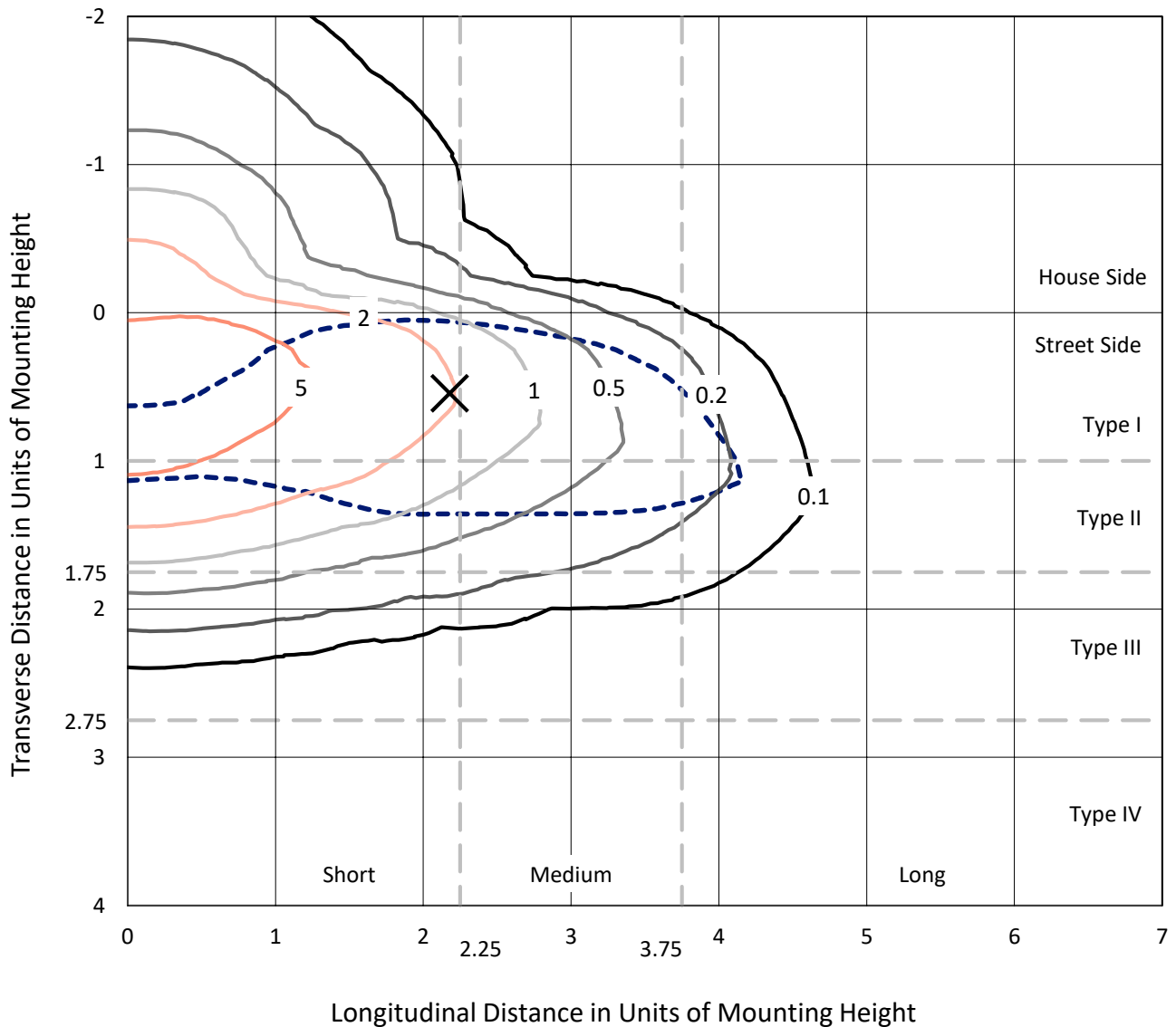
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

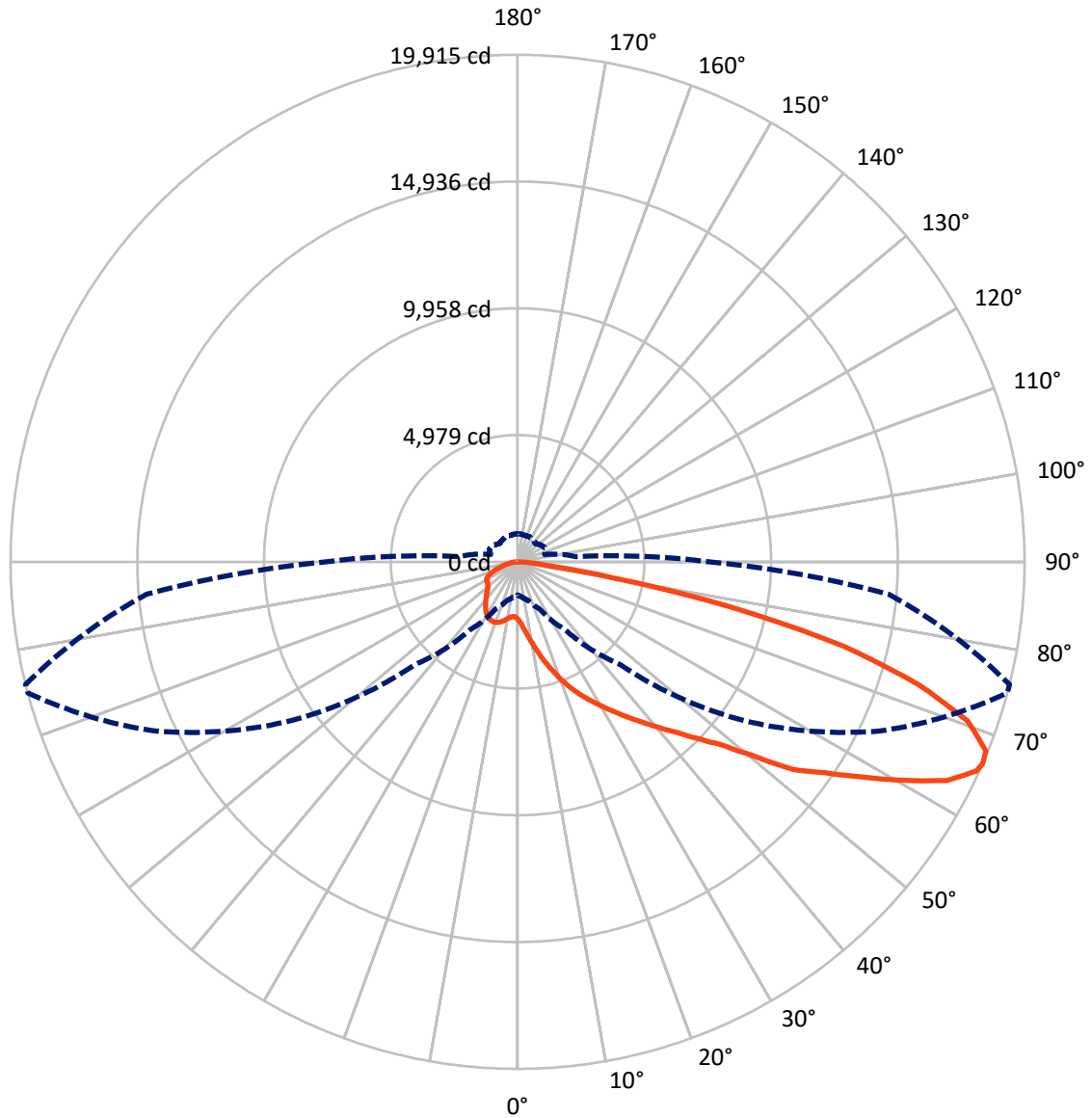
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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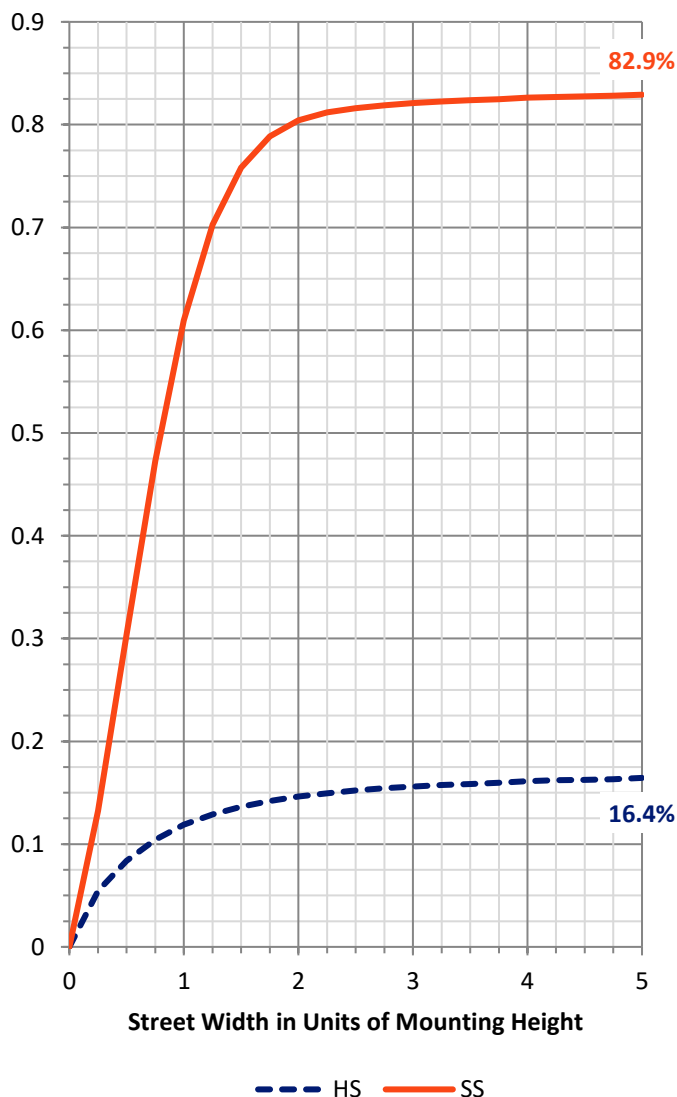
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4152.8	0.0	4152.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	20527.2	0.0	20527.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	24680.0	0.0	24680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.5	1.1
10°-20°	1076.3	4.4
20°-30°	2091.5	8.5
30°-40°	3413.8	13.8
40°-50°	4664.0	18.9
50°-60°	5432.6	22.0
60°-70°	4870.5	19.7
70°-80°	2461.3	10.0
80°-90°	397.5	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°	24680.0	100.0
0°-180°	24680.0	100.0

**Coefficient of Utilization**

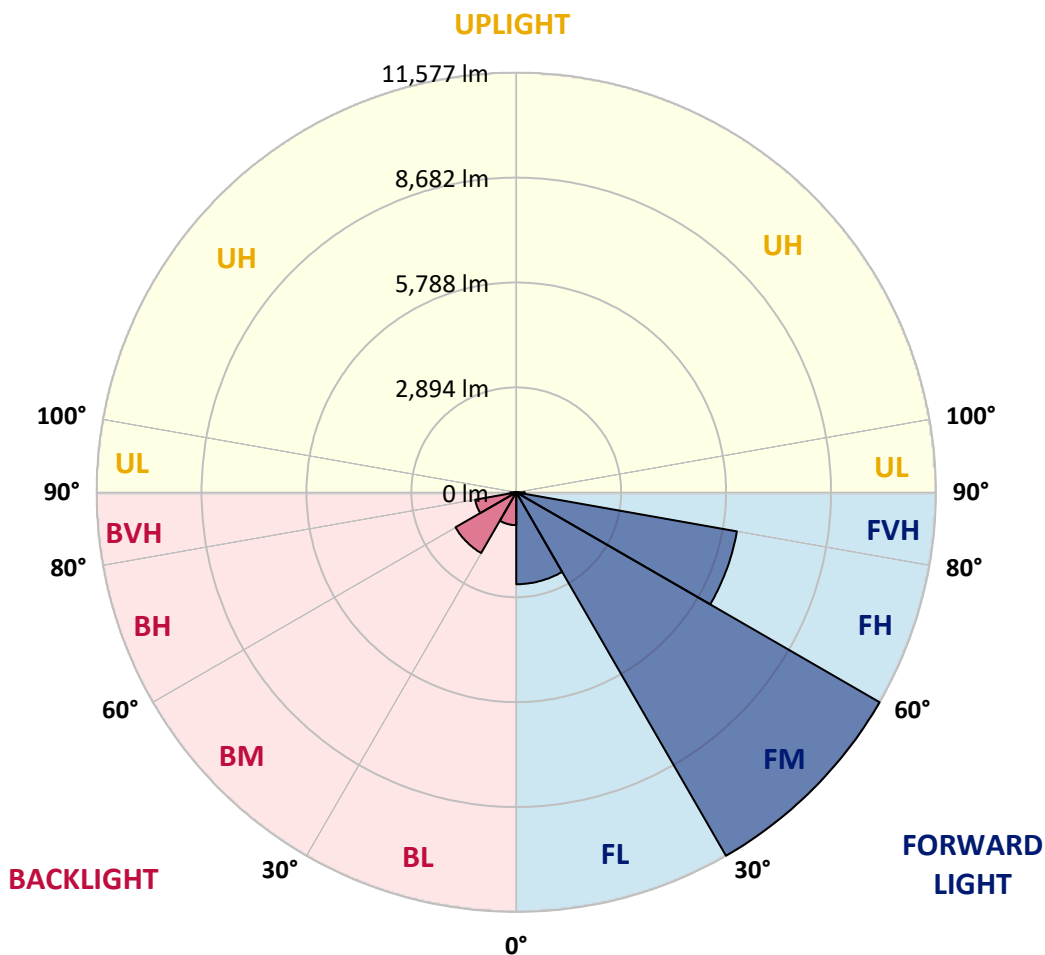


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2534.6	10.3			
FM (30°-60°)	11576.6	46.9			
FH (60°-80°)	6181.3	25.0			G3/7500
FVH (80°-90°)	234.7	1.0			G3/500
BL (0°-30°)	905.7	3.7	B2/1000		
BM (30°-60°)	1933.8	7.8	B2/2500		
BH (60°-80°)	1150.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	162.7	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°	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8
2.5°	2992.0	2946.8	2942.6	2876.4	2861.3	2734.8	2641.8	2544.6	2434.0	2412.2	2325.1
5°	3843.3	3839.1	3781.3	3673.2	3588.5	3372.4	3158.7	2932.5	2684.5	2644.3	2448.2
7.5°	4609.1	4602.4	4558.0	4441.5	4319.2	4053.6	3748.6	3401.7	2999.5	2940.0	2615.0
10°	5190.5	5188.0	5172.9	5087.5	4983.6	4728.9	4392.1	3918.7	3365.7	3284.4	2823.6
12.5°	5639.6	5644.7	5654.7	5624.5	5575.1	5358.1	5012.9	4466.6	3756.1	3675.7	3055.7
15°	5943.8	5958.9	6010.8	6053.5	6079.5	5946.3	5612.0	5027.2	4193.5	4097.1	3312.9
17.5°	6097.1	6113.9	6203.5	6332.5	6451.5	6438.1	6172.5	5561.7	4613.3	4520.2	3589.4
20°	6229.5	6242.0	6342.6	6497.6	6707.9	6800.9	6651.8	6076.2	5073.2	4962.6	3882.6
22.5°	6613.2	6629.1	6659.3	6747.3	6933.3	7104.2	7032.2	6562.9	5494.7	5391.6	4160.8
25°	7353.9	7373.2	7307.8	7233.2	7268.4	7387.4	7400.8	7007.0	5922.0	5805.5	4459.9
27.5°	8246.2	8273.9	8162.4	7970.6	7803.0	7756.9	7741.0	7370.6	6330.0	6195.1	4755.7
30°	9120.1	9167.9	9022.9	8774.1	8466.6	8250.4	8090.4	7726.7	6732.2	6603.2	5034.7
32.5°	9973.9	9954.6	9744.3	9501.3	9141.0	8870.4	8483.3	8108.8	7184.6	7036.3	5312.0
35°	10558.7	10565.4	10370.2	10082.0	9738.4	9530.6	9009.5	8521.0	7646.3	7509.7	5627.1
37.5°	11056.4	11025.4	10804.2	10535.2	10239.5	10150.7	9625.3	8975.1	8146.5	7997.4	5962.2
40°	11222.3	11186.3	11041.3	10847.8	10610.6	10603.1	10304.8	9489.6	8712.1	8564.6	6340.1
42.5°	11121.7	11075.7	11016.2	10963.4	10890.5	10924.0	10943.3	10092.8	9333.7	9168.7	6777.4
45°	10750.6	10681.0	10722.9	10837.7	10996.1	11185.4	11519.7	10760.6	10030.0	9891.8	7291.0
47.5°	10180.0	10117.1	10247.9	10493.3	10924.0	11403.3	12065.2	11497.9	10861.2	10723.8	8022.5
50°	9377.3	9395.8	9582.6	10029.2	10680.2	11503.8	12737.1	12474.0	12069.4	11941.2	9020.4
52.5°	8060.2	8063.6	8589.7	9322.9	10247.9	11451.9	13110.0	13721.6	13719.1	13564.1	9970.5
55°	6836.9	6911.5	7327.9	8302.3	9547.4	11244.1	13370.6	14328.2	14802.5	14620.6	10856.1
57.5°	5642.1	5685.7	6080.3	7059.0	8547.8	10690.2	13637.8	15056.3	16050.9	15936.1	11957.1
60°	4283.1	4350.2	4758.2	5662.3	7269.3	9707.4	13663.0	15816.3	17543.1	17427.5	13186.2
62.5°	2780.0	2895.6	3277.7	4124.8	5722.6	8294.0	13079.8	16313.1	18957.4	18916.3	14277.1
65°	1597.8	1684.9	1950.5	2604.1	3948.0	6519.4	11693.2	16122.1	19827.9	19804.5	14685.2
66°	1305.4	1359.8	1563.4	2035.2	3257.6	5725.1	10887.1	15719.1	19914.2	19915.1	14638.2
67.5°	1044.0	1068.3	1159.6	1457.0	2403.8	4537.8	9446.9	14830.1	19807.0	19836.3	14335.8
70°	863.8	876.4	904.9	976.9	1312.1	2736.4	6705.4	12520.1	18730.3	18753.0	13155.2
72.5°	775.0	782.6	793.5	803.5	925.8	1529.1	4095.5	10015.8	16422.0	16451.4	11356.3
75°	702.1	706.3	704.6	705.5	776.7	974.4	2116.4	7477.9	13278.4	13219.7	8699.5
77.5°	616.7	620.9	612.5	614.2	687.0	749.0	1053.2	5234.9	8960.9	8547.0	4901.5
80°	521.1	524.5	521.1	527.0	598.2	565.6	612.5	2945.1	3962.2	3747.7	1742.7
82.5°	393.8	408.0	418.1	441.6	492.7	402.2	409.7	1147.0	1206.5	1148.7	534.6
85°	172.6	210.3	315.0	337.7	370.3	241.3	269.0	467.5	491.0	475.9	194.4
87.5°	45.2	49.4	155.8	196.1	205.3	108.9	139.9	212.8	224.5	212.8	64.5
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°	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8
2.5°	2279.0	2237.9	2164.2	2098.8	2049.4	2015.9	1982.4	1965.6	1955.6	1945.5	1947.2
5°	2351.9	2268.9	2142.4	2052.8	2002.5	1970.6	1953.9	1947.2	1943.0	1932.9	1932.9
7.5°	2461.6	2344.3	2170.1	2077.9	2038.5	2014.2	2004.2	2000.8	1995.8	1984.1	1985.7
10°	2599.9	2435.7	2227.9	2138.2	2102.2	2075.4	2061.1	2056.1	2046.9	2033.5	2035.2
12.5°	2762.4	2548.8	2304.1	2210.3	2166.7	2130.7	2107.2	2093.0	2077.1	2059.5	2060.3
15°	2940.0	2671.9	2386.2	2274.8	2215.3	2165.0	2127.3	2103.0	2077.9	2056.1	2055.3
17.5°	3120.2	2790.9	2449.1	2310.0	2229.5	2163.4	2112.2	2074.5	2043.5	2016.7	2014.2
20°	3314.6	2898.2	2484.3	2306.6	2202.7	2124.0	2056.1	2009.2	1974.8	1948.0	1943.8
22.5°	3512.3	2998.7	2490.1	2272.3	2143.2	2046.9	1975.7	1923.7	1888.5	1860.9	1850.8
25°	3693.3	3076.6	2465.8	2206.1	2060.3	1956.4	1886.9	1834.1	1805.6	1772.9	1762.9
27.5°	3858.3	3131.1	2417.2	2121.5	1967.3	1865.1	1799.7	1754.5	1723.5	1698.3	1690.0
30°	4006.6	3160.4	2337.6	2020.9	1871.8	1778.8	1723.5	1692.5	1665.7	1633.8	1628.0
32.5°	4147.4	3160.4	2235.4	1911.2	1777.1	1702.5	1669.9	1650.6	1620.4	1589.4	1581.0
35°	4288.2	3141.1	2114.8	1796.4	1690.0	1648.1	1646.4	1623.8	1577.7	1535.8	1524.9
37.5°	4436.5	3101.8	1979.0	1689.1	1618.7	1623.8	1638.0	1587.7	1522.4	1462.9	1447.0
40°	4604.0	3047.3	1838.3	1596.1	1559.3	1612.9	1615.4	1535.8	1408.4	1354.0	1339.7
42.5°	4800.9	2992.8	1707.6	1514.0	1512.3	1580.2	1572.7	1423.5	1347.3	1319.6	1312.1
45°	5059.8	2961.8	1583.6	1436.1	1475.5	1527.4	1499.8	1361.5	1329.7	1313.8	1307.1
47.5°	5467.9	2977.8	1469.6	1374.1	1438.6	1474.6	1364.0	1336.4	1313.8	1294.5	1287.8
50°	5979.0	2968.5	1377.4	1331.4	1396.7	1419.3	1302.9	1303.7	1292.0	1270.2	1260.1
52.5°	6363.5	2896.5	1318.0	1307.1	1359.8	1321.3	1264.3	1271.9	1266.0	1234.2	1223.3
55°	6734.7	2834.5	1287.8	1297.8	1333.0	1199.0	1219.1	1237.5	1231.7	1200.7	1195.6
57.5°	7196.4	2822.7	1269.4	1300.4	1310.4	1137.8	1175.5	1199.8	1195.6	1182.2	1179.7
60°	7761.9	2826.1	1252.6	1304.5	1285.3	1092.6	1134.5	1165.5	1168.0	1165.5	1163.8
62.5°	8072.8	2734.8	1210.7	1292.8	1240.9	1053.2	1091.7	1137.0	1137.8	1142.8	1142.0
65°	7808.8	2461.6	1132.8	1251.8	1166.3	1020.5	1054.9	1104.3	1091.7	1114.4	1114.4
66°	7552.5	2304.1	1094.2	1224.9	1134.5	1007.9	1043.1	1087.5	1071.6	1102.6	1102.6
67.5°	7028.8	2038.5	1024.7	1168.0	1089.2	990.3	1029.7	1059.9	1038.1	1084.2	1080.8
70°	6072.0	1576.9	884.8	1038.9	1014.6	964.4	1011.3	1004.6	972.8	1043.1	1029.7
72.5°	5119.3	1198.1	710.5	869.7	901.5	931.7	985.3	934.2	894.0	943.4	914.1
75°	3972.3	900.7	561.4	676.2	761.6	880.6	954.3	852.9	795.1	790.1	774.2
77.5°	2147.4	618.3	444.9	516.1	604.9	816.9	933.4	765.8	678.7	658.6	646.0
80°	850.4	402.2	323.4	391.3	423.1	724.7	883.1	664.4	559.7	539.6	520.3
82.5°	351.1	238.0	208.6	262.2	275.7	620.0	792.6	544.6	432.3	598.2	635.1
85°	150.8	130.7	124.0	135.7	155.8	434.8	630.9	415.6	466.7	416.4	331.0
87.5°	45.2	55.3	52.8	51.9	57.0	103.9	336.0	231.2	342.7	129.9	97.2
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)