

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387074

Luminaire Tested: GAW-SA2D-735-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-735-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10802.1 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

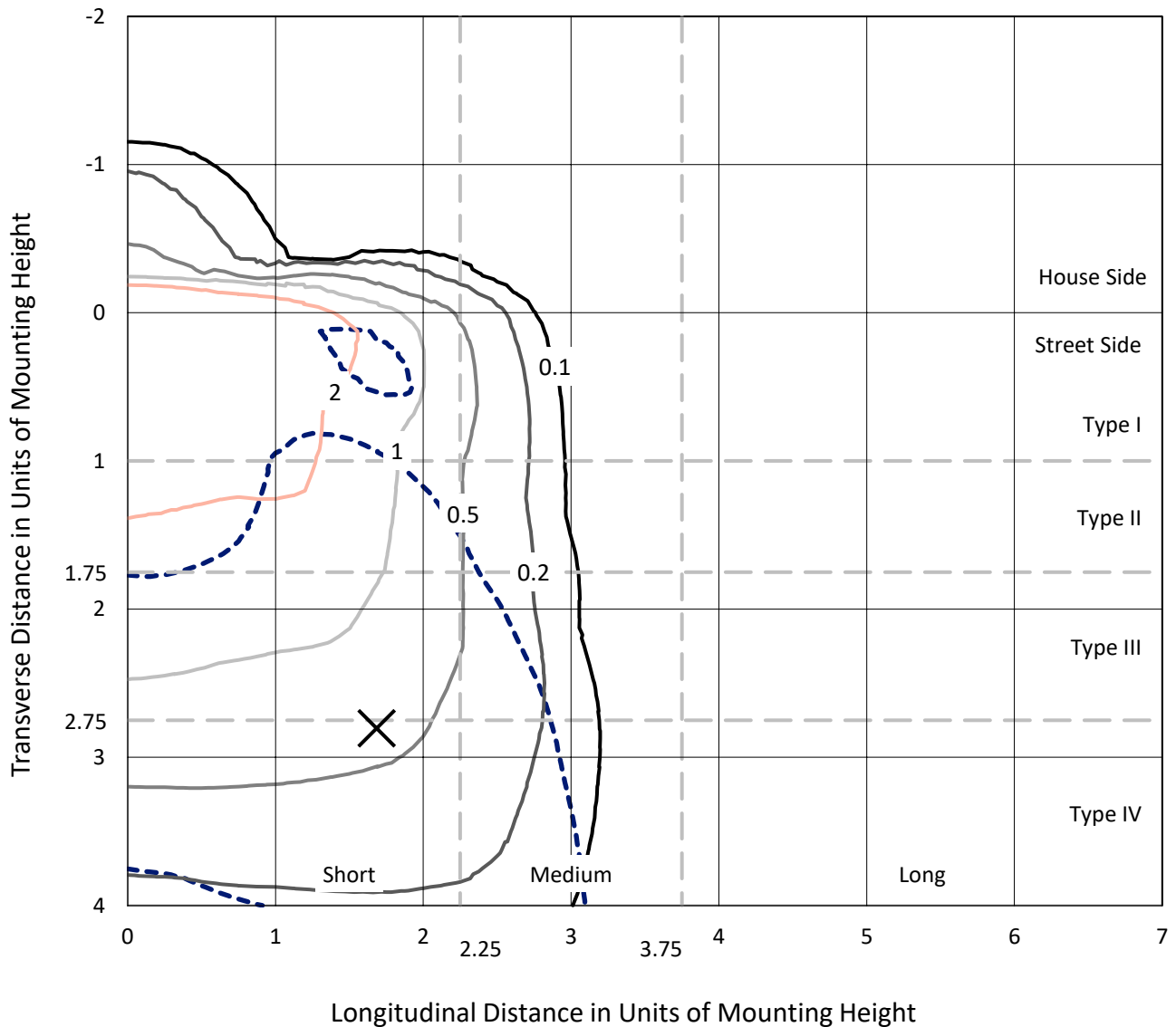
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

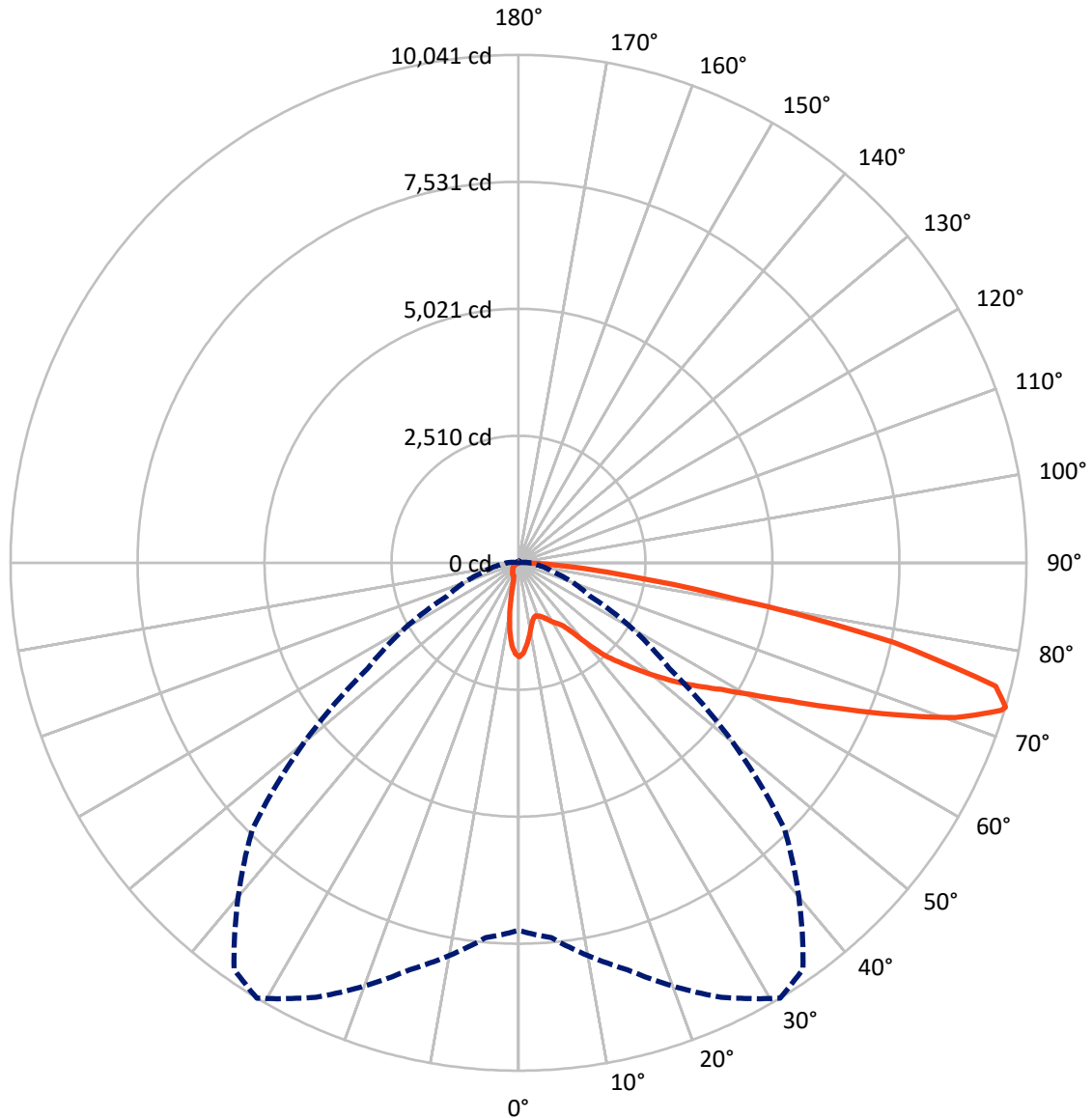
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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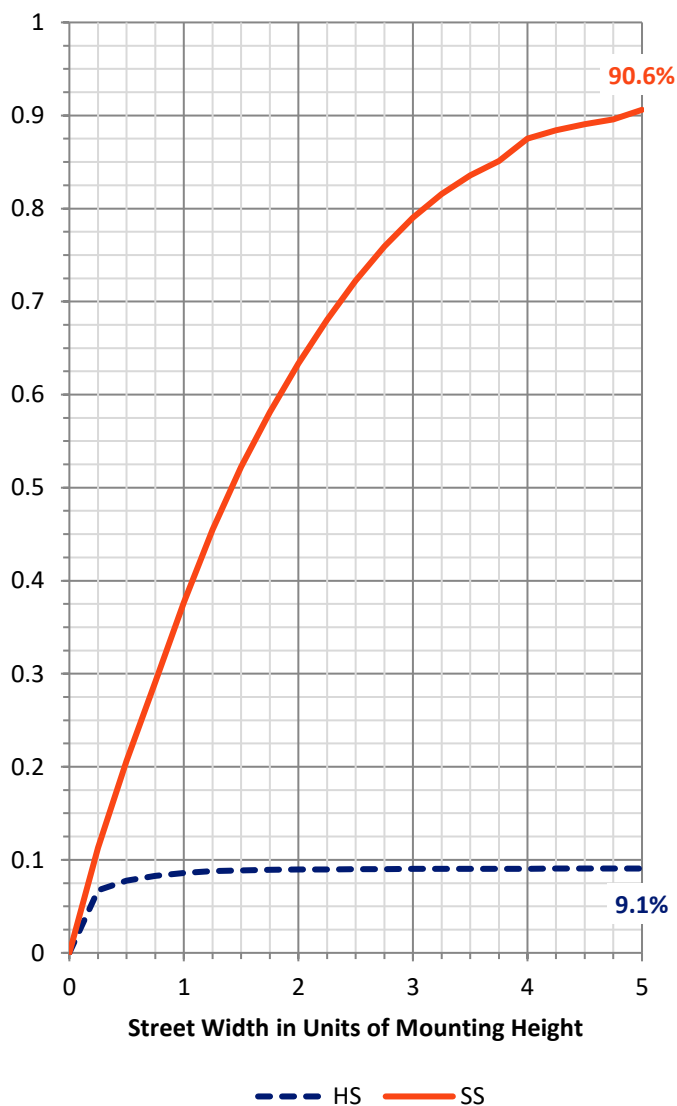
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	984.7	0.0	984.7
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	9817.4	0.0	9817.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	10802.1	0.0	10802.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	1.4
10°-20°	334.6	3.1
20°-30°	501.3	4.6
30°-40°	797.6	7.4
40°-50°	1424.3	13.2
50°-60°	2210.1	20.5
60°-70°	2938.0	27.2
70°-80°	2209.9	20.5
80°-90°	232.2	2.1
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°	10802.1	100.0
0°-180°	10802.1	100.0

**Coefficient of Utilization**

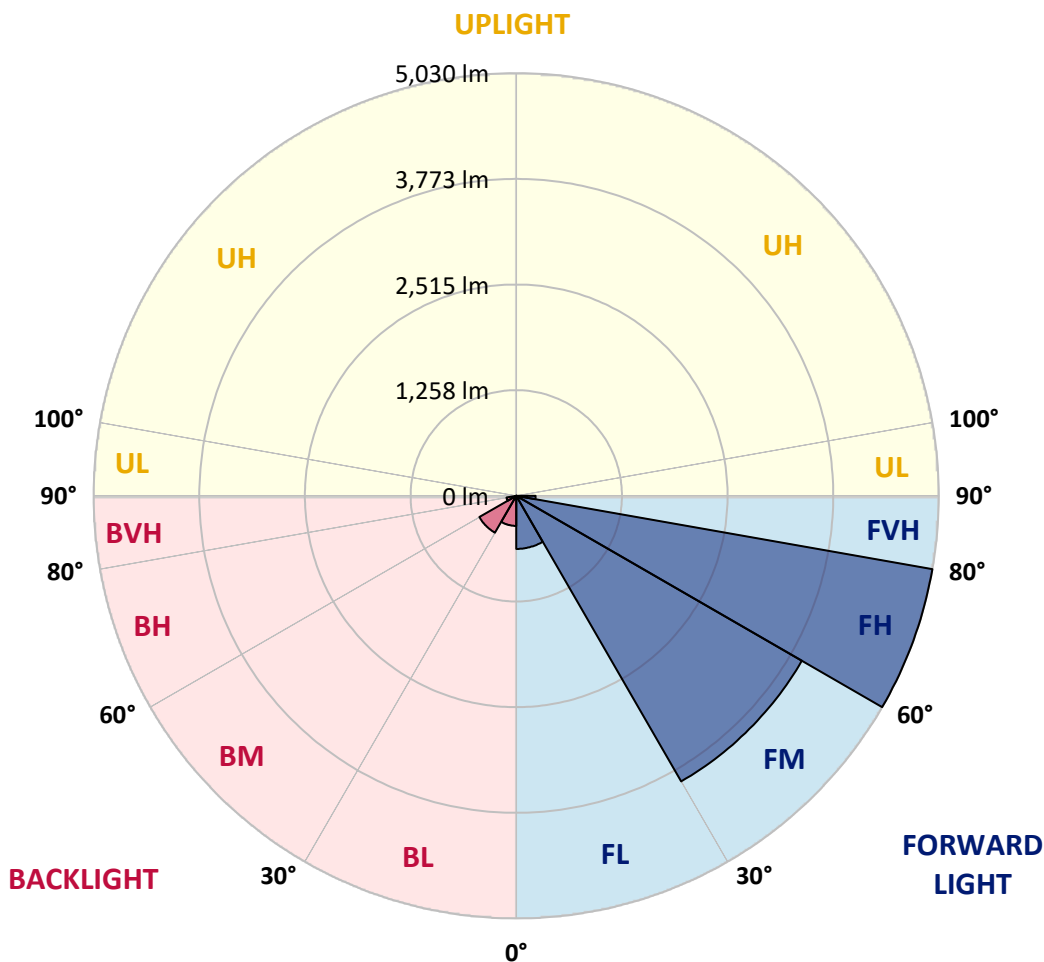


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.9	5.9			
FM (30°-60°)	3925.1	36.3			
FH (60°-80°)	5030.1	46.6			G3/7500
FVH (80°-90°)	230.3	2.1			G3/500
BL (0°-30°)	358.1	3.3	B1/500		
BM (30°-60°)	506.8	4.7	B1/1000		
BH (60°-80°)	117.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1761.3	1768.7	1776.6	1778.2	1791.4	1791.9	1811.0	1825.2	1839.5	1853.2	1858.0
5°	1580.5	1592.6	1606.9	1621.2	1649.2	1660.3	1706.8	1754.4	1799.9	1843.2	1864.3
7.5°	1387.6	1401.3	1421.4	1456.8	1488.0	1509.6	1583.2	1667.7	1752.3	1832.1	1878.0
10°	1211.5	1224.2	1245.4	1282.9	1331.0	1360.6	1459.4	1576.8	1701.0	1822.0	1898.7
12.5°	1099.5	1106.3	1118.0	1158.2	1201.5	1234.7	1351.0	1496.5	1658.7	1821.5	1932.0
15°	1078.9	1081.0	1071.5	1089.4	1123.2	1155.5	1273.3	1431.4	1626.5	1829.9	1975.4
17.5°	1111.6	1110.6	1078.9	1076.7	1103.7	1130.1	1235.3	1386.5	1603.7	1849.6	2031.3
20°	1161.3	1157.6	1102.7	1092.6	1121.2	1146.0	1232.7	1369.5	1595.3	1882.3	2099.5
22.5°	1227.4	1221.0	1134.9	1124.3	1155.0	1180.9	1265.5	1386.0	1602.7	1926.2	2178.8
25°	1309.3	1299.8	1190.4	1178.8	1209.9	1235.9	1324.1	1433.0	1624.9	1979.6	2279.3
27.5°	1401.9	1388.0	1279.2	1249.0	1284.4	1311.4	1402.3	1504.9	1659.8	2036.1	2402.4
30°	1489.0	1471.1	1372.7	1323.0	1366.4	1396.5	1487.0	1590.5	1715.8	2123.3	2571.0
32.5°	1576.8	1556.7	1456.2	1397.1	1436.1	1468.9	1574.1	1708.4	1821.0	2256.5	2795.2
35°	1778.7	1757.6	1634.4	1536.6	1536.1	1554.6	1696.3	1869.6	1960.0	2442.0	3062.6
37.5°	2118.6	2106.4	1989.1	1803.5	1753.8	1733.3	1862.7	2062.1	2159.9	2697.4	3364.4
40°	2490.7	2480.2	2348.5	2180.4	2104.8	2054.1	2101.7	2330.0	2442.0	3009.3	3672.7
42.5°	2910.9	2860.7	2626.1	2575.8	2508.2	2469.6	2426.7	2660.4	2788.9	3348.7	3978.1
45°	3292.6	3208.0	2903.6	2827.4	2812.1	2821.7	2845.4	3104.4	3178.9	3751.9	4282.6
47.5°	3519.9	3453.3	3219.7	3146.7	3142.5	3205.4	3385.1	3606.1	3567.4	4103.5	4550.6
50°	3736.1	3675.8	3481.9	3499.8	3519.3	3605.0	3997.7	4122.0	3922.2	4422.2	4796.5
52.5°	3911.1	3819.1	3717.6	3818.5	3914.7	4052.7	4629.9	4585.0	4173.7	4675.9	5006.8
55°	4012.0	3970.3	4019.4	4120.9	4301.7	4525.8	5226.7	4970.3	4357.7	4907.4	5146.8
57.5°	4382.0	4300.1	4397.9	4485.6	4721.4	5034.8	5737.8	5257.3	4490.4	5050.7	5179.2
60°	4829.7	4763.7	4821.3	4967.1	5285.4	5653.8	6215.7	5491.5	4559.6	5142.6	5095.6
62.5°	5542.2	5455.1	5419.1	5582.4	6004.2	6406.5	6578.3	5653.8	4544.3	5101.9	4809.1
65°	6496.9	6406.5	6245.8	6393.8	6930.4	7214.2	6983.7	5688.1	4438.5	4772.6	4085.0
67.5°	7474.8	7409.3	7271.8	7521.4	8005.5	8096.9	7412.4	5604.6	4098.2	3869.8	2886.1
70°	8120.7	8092.7	8182.0	8733.9	9165.8	9139.4	7805.7	5155.9	3194.3	2379.7	1427.7
72.5°	7655.0	7789.3	8449.0	9449.6	9977.1	9761.4	7603.7	3959.2	1825.7	915.5	412.9
73°	7269.1	7440.9	8328.9	9476.5	10041.1	9804.8	7434.1	3634.0	1556.2	722.6	312.9
75°	5057.0	5267.9	6895.4	8825.9	9741.9	9341.8	6196.6	2224.3	721.0	320.3	126.3
77.5°	2455.3	2611.2	3796.8	6376.9	7576.3	7298.8	3857.6	828.8	325.6	200.4	58.1
80°	916.6	1019.1	1648.2	3245.5	4378.3	4493.0	1696.7	313.5	216.7	161.2	29.6
82.5°	240.0	267.4	607.9	1447.3	2243.8	2348.5	534.9	158.0	158.6	132.6	17.9
85°	76.7	87.7	189.8	649.6	1057.2	928.2	139.6	76.7	115.3	98.8	10.1
87.5°	9.5	12.1	60.2	152.7	233.1	129.5	21.7	22.7	49.1	55.0	5.8
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°	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5	1858.5
2.5°	1862.7	1860.1	1860.7	1846.8	1837.9	1819.9	1801.5	1793.0	1784.0	1780.2	1784.0
5°	1872.3	1867.5	1853.8	1811.4	1766.5	1708.4	1654.0	1612.8	1560.9	1546.6	1561.5
7.5°	1887.1	1877.6	1837.4	1751.2	1651.4	1540.3	1415.6	1324.6	1250.1	1202.0	1219.4
10°	1908.8	1890.8	1809.9	1663.5	1484.8	1288.2	1111.1	973.1	875.3	835.2	833.6
12.5°	1945.2	1911.4	1776.0	1549.3	1281.3	1019.1	787.0	637.5	558.2	506.9	505.9
15°	1985.4	1935.7	1733.3	1412.4	1044.5	730.0	506.9	393.2	342.0	325.6	323.5
17.5°	2034.5	1963.7	1677.8	1243.8	796.6	483.7	330.9	298.2	296.0	294.4	294.4
20°	2096.4	1997.1	1606.4	1050.8	565.0	323.0	281.3	283.3	284.4	282.3	282.8
22.5°	2168.3	2030.9	1521.3	843.7	382.1	270.1	269.0	271.7	272.7	271.7	272.2
25°	2251.8	2070.0	1417.6	626.4	275.9	256.4	259.0	262.7	265.4	265.4	265.4
27.5°	2355.4	2117.5	1292.9	437.1	238.4	242.1	249.5	256.4	260.0	261.2	261.2
30°	2490.1	2176.8	1143.3	299.7	216.7	223.1	236.8	250.1	256.9	258.0	258.5
32.5°	2660.4	2243.4	969.9	221.5	198.2	203.0	217.8	240.0	253.2	255.3	255.3
35°	2855.5	2320.5	783.4	193.0	185.0	186.6	198.2	223.6	246.9	252.7	253.2
37.5°	3069.0	2396.6	595.8	180.3	173.9	173.9	182.3	204.0	231.6	249.5	251.6
40°	3268.2	2442.6	417.6	170.2	163.8	163.8	171.3	187.1	213.1	240.0	245.8
42.5°	3452.2	2458.5	290.7	160.7	154.3	155.9	162.2	175.0	194.5	221.5	226.8
45°	3641.5	2455.9	211.9	149.6	144.9	149.6	154.3	163.8	178.1	193.4	194.5
47.5°	3784.2	2433.6	168.1	139.0	135.8	142.2	146.5	152.7	160.7	159.6	159.6
50°	3917.9	2379.7	135.3	124.8	126.8	134.2	136.4	138.5	139.0	129.0	127.9
52.5°	4019.4	2295.7	108.4	109.4	117.9	125.3	123.2	120.0	114.7	102.6	100.4
55°	4053.2	2133.9	85.1	90.4	104.6	114.1	106.2	99.4	89.3	79.3	77.2
57.5°	3992.0	1925.1	69.2	70.3	88.3	96.2	87.2	79.3	68.2	59.7	58.1
60°	3861.8	1693.1	57.1	52.9	68.2	75.1	69.2	61.3	51.3	44.9	44.4
62.5°	3603.9	1445.7	47.1	41.2	51.8	57.6	53.9	48.1	39.6	35.4	34.9
65°	3061.6	1156.6	38.0	33.3	40.2	44.9	41.8	37.6	31.2	28.0	27.5
67.5°	2137.1	781.8	31.2	27.5	31.8	35.4	32.8	30.6	24.8	24.3	24.8
70°	1030.8	376.9	25.9	22.2	24.8	27.5	26.4	24.8	23.8	27.5	31.8
72.5°	295.4	126.3	20.6	18.5	20.1	21.7	22.7	22.2	25.9	33.3	38.6
73°	227.3	102.0	19.5	17.5	19.1	21.1	22.2	21.7	26.4	33.8	38.6
75°	97.2	49.1	14.8	14.3	15.9	18.5	19.5	19.5	26.4	34.4	37.0
77.5°	43.9	26.4	9.5	11.1	13.7	14.8	16.3	16.3	21.1	26.4	26.4
80°	24.8	14.3	7.4	8.5	10.1	10.1	10.1	9.0	9.5	10.6	11.6
82.5°	15.9	9.5	5.8	6.9	6.4	5.3	4.2	4.2	3.7	4.2	5.3
85°	9.0	5.3	5.3	4.2	2.6	2.2	2.6	2.2	0.6	0.0	0.6
87.5°	5.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)