

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: P386501

Luminaire Tested: GAW-SA2A-830-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-830-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7342 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

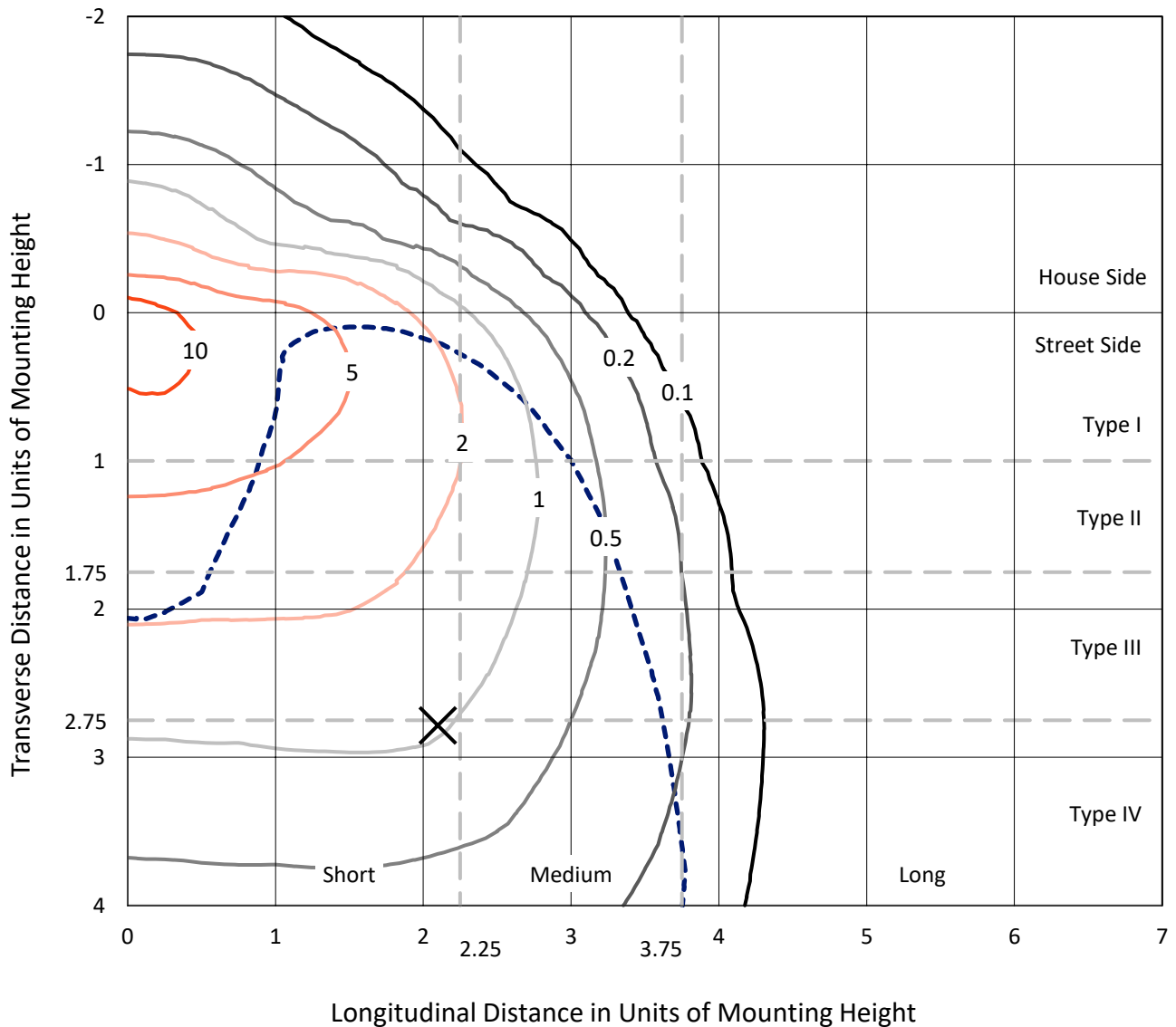
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

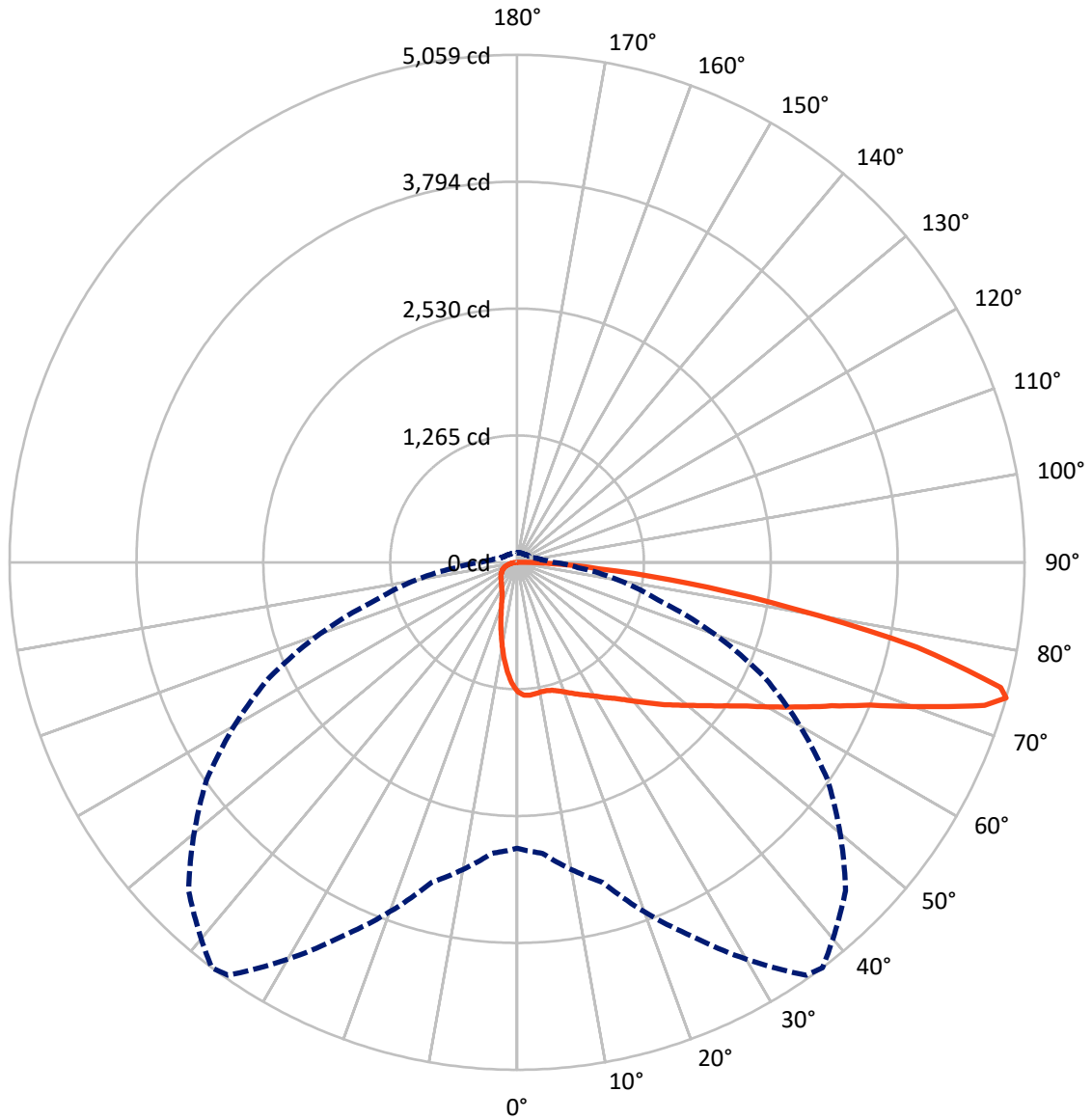
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical



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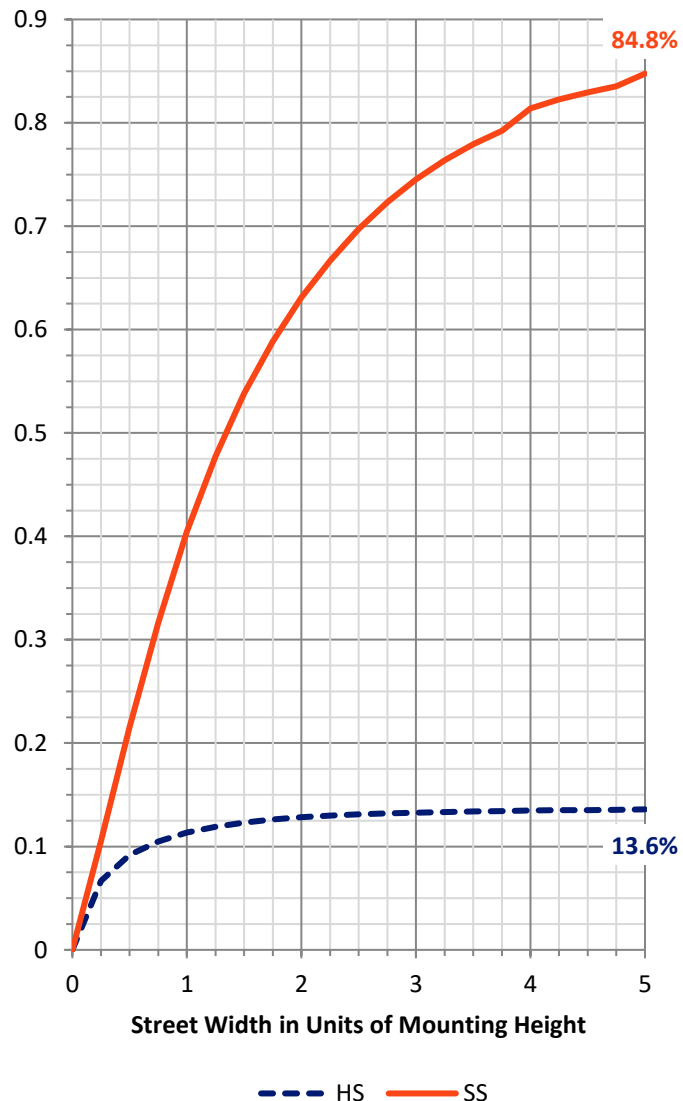
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1010.2	0.0	1010.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	6331.8	0.0	6331.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	7342.0	0.0	7342.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.9	1.6
10°-20°	292.0	4.0
20°-30°	449.9	6.1
30°-40°	654.3	8.9
40°-50°	963.0	13.1
50°-60°	1352.3	18.4
60°-70°	1711.6	23.3
70°-80°	1507.1	20.5
80°-90°	298.0	4.1
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°	7342.0	100.0
0°-180°	7342.0	100.0

**Coefficient of Utilization**



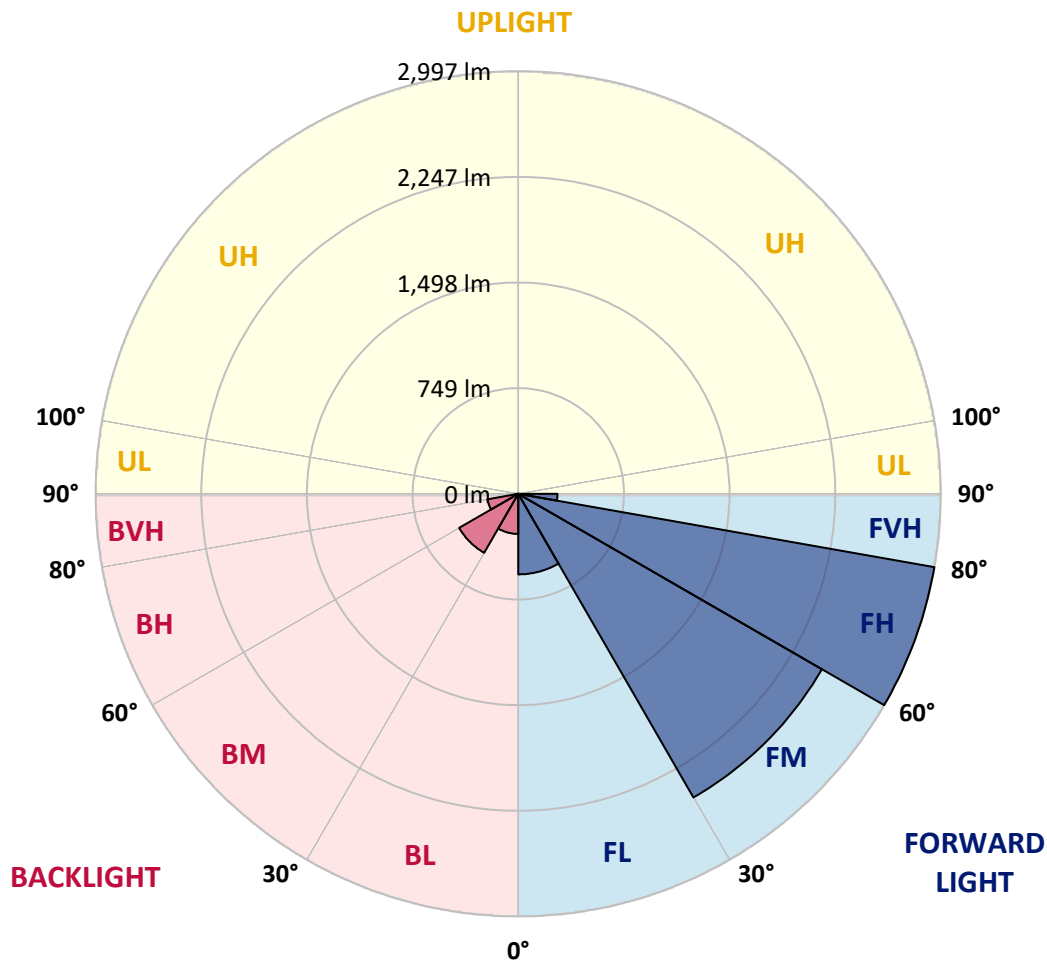
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.3	7.8			
FM (30°-60°)	2486.1	33.9			
FH (60°-80°)	2996.6	40.8			G2/5000
FVH (80°-90°)	277.8	3.8			G3/500
BL (0°-30°)	284.6	3.9	B1/500		
BM (30°-60°)	483.4	6.6	B1/1000		
BH (60°-80°)	222.1	3.0	B1/500		G1/500
BVH (80°-90°)	20.2	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1337.9	1338.1	1337.9	1335.8	1330.9	1326.7	1323.4	1318.5	1307.6	1299.3	1286.9
5°	1350.5	1349.0	1347.9	1344.1	1336.3	1331.6	1325.2	1315.9	1298.0	1281.5	1261.3
7.5°	1344.6	1342.8	1340.4	1335.8	1327.0	1323.1	1314.1	1301.9	1280.4	1258.7	1229.8
10°	1326.2	1325.7	1324.7	1323.6	1316.1	1313.0	1304.8	1291.8	1270.6	1244.2	1210.4
12.5°	1305.8	1307.1	1311.2	1316.6	1313.3	1311.7	1306.6	1297.8	1276.0	1247.6	1206.7
15°	1292.9	1296.5	1307.6	1321.8	1324.7	1324.1	1322.9	1317.2	1294.1	1262.6	1215.0
17.5°	1288.5	1294.4	1315.6	1339.1	1347.4	1349.2	1349.8	1339.9	1314.3	1281.0	1223.5
20°	1296.5	1304.0	1335.0	1367.3	1380.5	1381.6	1379.2	1362.2	1333.5	1296.7	1228.2
22.5°	1320.8	1327.5	1366.3	1402.8	1417.8	1419.3	1412.3	1386.5	1353.6	1315.4	1234.7
25°	1367.6	1375.9	1414.7	1451.1	1458.9	1459.2	1449.1	1417.0	1380.0	1341.5	1248.6
27.5°	1428.6	1436.9	1471.8	1507.5	1503.4	1501.0	1487.3	1455.3	1414.4	1377.4	1273.5
30°	1496.7	1505.7	1538.8	1564.2	1554.3	1549.7	1538.5	1497.2	1462.3	1426.6	1311.5
32.5°	1567.0	1575.3	1604.2	1621.6	1609.2	1607.1	1590.3	1552.5	1524.6	1501.6	1373.0
35°	1639.2	1645.1	1673.5	1683.4	1666.8	1666.3	1661.7	1627.0	1609.4	1620.3	1462.5
37.5°	1712.9	1714.4	1738.7	1739.2	1734.3	1736.4	1741.3	1719.6	1724.5	1758.4	1578.9
40°	1778.5	1782.7	1800.3	1805.7	1814.2	1821.5	1846.1	1831.8	1869.8	1929.8	1723.7
42.5°	1827.2	1835.2	1863.4	1877.3	1905.0	1916.4	1951.1	1964.2	2040.8	2130.8	1896.0
45°	1868.3	1880.7	1926.0	1954.7	2001.5	2021.4	2071.1	2115.3	2234.0	2348.8	2077.3
47.5°	1912.8	1928.6	1985.2	2040.0	2103.6	2126.1	2216.4	2282.6	2440.1	2568.1	2248.2
50°	1978.2	1990.4	2045.7	2131.8	2211.2	2240.2	2365.1	2460.0	2649.6	2777.1	2396.4
52.5°	2069.5	2064.8	2111.7	2232.4	2339.0	2374.7	2523.9	2648.8	2861.9	2966.1	2521.6
55°	2161.3	2153.6	2186.4	2337.7	2488.0	2525.5	2698.7	2838.4	3063.9	3136.3	2617.5
57.5°	2263.5	2248.7	2276.4	2456.4	2657.6	2702.4	2894.5	3039.9	3262.5	3273.9	2678.6
60°	2368.7	2348.8	2379.8	2603.6	2873.0	2925.8	3123.6	3236.4	3449.8	3384.1	2698.2
62.5°	2460.8	2446.8	2494.7	2767.8	3115.9	3173.8	3348.6	3445.4	3634.4	3429.9	2627.4
65°	2541.2	2543.6	2626.3	2952.4	3386.7	3448.5	3606.8	3703.0	3779.8	3402.7	2461.6
67.5°	2637.2	2650.4	2791.6	3195.5	3727.5	3795.3	3982.3	3983.8	3861.0	3243.4	2135.2
70°	2777.1	2804.2	3018.9	3532.8	4212.2	4305.3	4449.6	4148.8	3746.9	2811.5	1680.0
72.5°	2901.2	2951.9	3260.7	3918.7	4802.9	4873.5	4723.0	4053.7	3270.3	2107.0	1046.6
74°	2850.8	2913.6	3304.7	4108.7	5025.3	5059.2	4630.6	3775.9	2726.7	1459.2	608.3
75°	2742.2	2810.5	3240.5	4106.9	4997.1	4978.2	4407.7	3458.6	2245.6	995.2	404.7
77.5°	2213.0	2285.2	2730.5	3519.9	4097.4	4079.5	3385.9	2320.1	983.5	326.4	205.6
80°	1286.6	1341.7	1695.0	2235.3	2762.9	2795.2	2226.7	1148.0	386.9	183.4	139.4
82.5°	571.6	609.6	818.8	1141.0	1667.3	1709.0	1166.1	601.6	239.0	111.5	83.8
85°	375.0	403.2	497.1	543.4	794.0	822.4	570.8	468.4	157.8	61.3	61.6
87.5°	269.7	296.9	369.3	322.5	364.4	345.0	310.6	433.5	63.4	34.9	20.7
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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1281.5	1277.3	1268.0	1250.4	1240.6	1232.3	1218.6	1210.6	1207.0	1206.7	1208.3
5°	1249.7	1240.1	1216.0	1186.6	1163.0	1141.6	1114.9	1098.9	1087.5	1080.8	1082.6
7.5°	1212.7	1197.7	1159.9	1112.9	1075.1	1033.5	992.3	967.8	948.6	934.4	937.0
10°	1187.3	1166.6	1111.6	1043.8	981.0	920.4	863.8	829.9	803.0	782.3	783.9
12.5°	1178.8	1150.9	1074.6	984.1	895.9	813.1	739.1	687.2	659.5	636.0	637.8
15°	1180.1	1142.6	1043.5	930.3	819.3	715.1	625.4	564.6	527.1	510.8	511.0
17.5°	1181.1	1133.0	1011.0	872.6	743.5	623.5	526.0	464.5	429.1	414.1	414.3
20°	1177.8	1117.5	970.6	806.4	664.4	539.5	445.1	392.8	366.0	354.3	354.3
22.5°	1173.4	1099.1	925.1	739.9	586.3	466.6	387.2	347.3	331.8	324.1	323.8
25°	1175.4	1085.4	878.5	671.6	514.4	408.4	348.6	322.2	311.9	307.0	306.7
27.5°	1186.6	1079.0	835.6	603.6	451.6	364.7	322.8	304.1	297.4	294.3	294.3
30°	1206.7	1079.0	790.9	545.7	399.3	332.3	302.8	290.2	285.5	283.5	283.5
32.5°	1241.9	1084.9	747.7	488.3	357.7	307.0	286.3	277.8	274.1	273.1	273.1
35°	1302.4	1105.1	705.5	434.0	324.1	286.3	270.5	265.6	263.0	262.8	263.5
37.5°	1387.5	1146.2	666.0	393.9	300.3	269.5	257.3	253.5	251.9	253.2	254.2
40°	1494.6	1202.1	630.0	357.7	282.2	256.0	245.2	242.6	241.8	243.6	245.2
42.5°	1623.9	1277.6	600.5	331.6	268.2	244.7	234.8	231.7	231.0	233.0	235.1
45°	1763.8	1358.8	579.8	312.2	257.3	236.1	225.8	222.4	220.9	221.9	224.2
47.5°	1891.1	1435.6	571.6	298.5	247.0	228.9	217.8	213.6	211.0	210.5	212.3
50°	1998.4	1492.8	575.4	290.2	238.7	220.9	210.0	205.3	201.5	199.1	200.4
52.5°	2076.5	1528.7	579.1	286.6	232.2	212.1	201.5	197.1	191.9	188.0	188.0
55°	2133.1	1537.0	571.0	283.7	227.3	202.5	191.9	187.8	182.6	178.2	177.7
57.5°	2155.4	1513.7	541.3	279.6	224.0	193.4	181.8	178.7	174.3	169.1	168.9
60°	2125.4	1441.8	483.9	270.8	219.6	185.9	171.7	169.7	167.6	162.7	162.4
62.5°	2004.8	1284.1	409.7	252.9	210.8	177.9	162.4	163.4	163.7	160.3	159.8
65°	1786.3	1067.3	337.2	229.7	197.6	168.4	152.8	157.8	160.6	160.1	159.3
67.5°	1468.7	830.7	285.8	205.1	180.3	155.2	142.5	148.2	150.5	152.3	151.8
70°	1090.1	585.8	236.4	179.2	159.3	139.7	129.1	131.9	130.3	132.4	133.2
72.5°	607.8	351.5	192.7	153.4	137.6	121.6	114.1	113.5	110.2	110.2	110.2
74°	364.7	257.8	169.4	137.3	124.4	109.7	103.2	100.9	97.8	98.0	97.8
75°	293.3	221.6	155.4	126.7	115.1	102.7	96.2	93.1	90.8	90.8	90.5
77.5°	185.2	168.4	125.2	100.9	92.1	84.6	80.2	76.0	76.0	75.8	75.5
80°	139.9	134.0	97.5	76.3	70.6	64.9	62.1	60.3	60.3	61.0	60.8
82.5°	95.9	100.9	68.5	53.3	50.4	46.3	45.8	46.0	45.3	44.2	44.0
85°	70.1	75.8	46.3	33.6	30.8	28.2	30.3	31.3	30.0	27.7	26.6
87.5°	26.9	49.7	24.8	14.0	12.9	11.1	12.9	13.4	14.5	11.4	11.6
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)