

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: P386333

Luminaire Tested: GAW-SA2A-727-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386333  
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-727-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 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: 7726 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

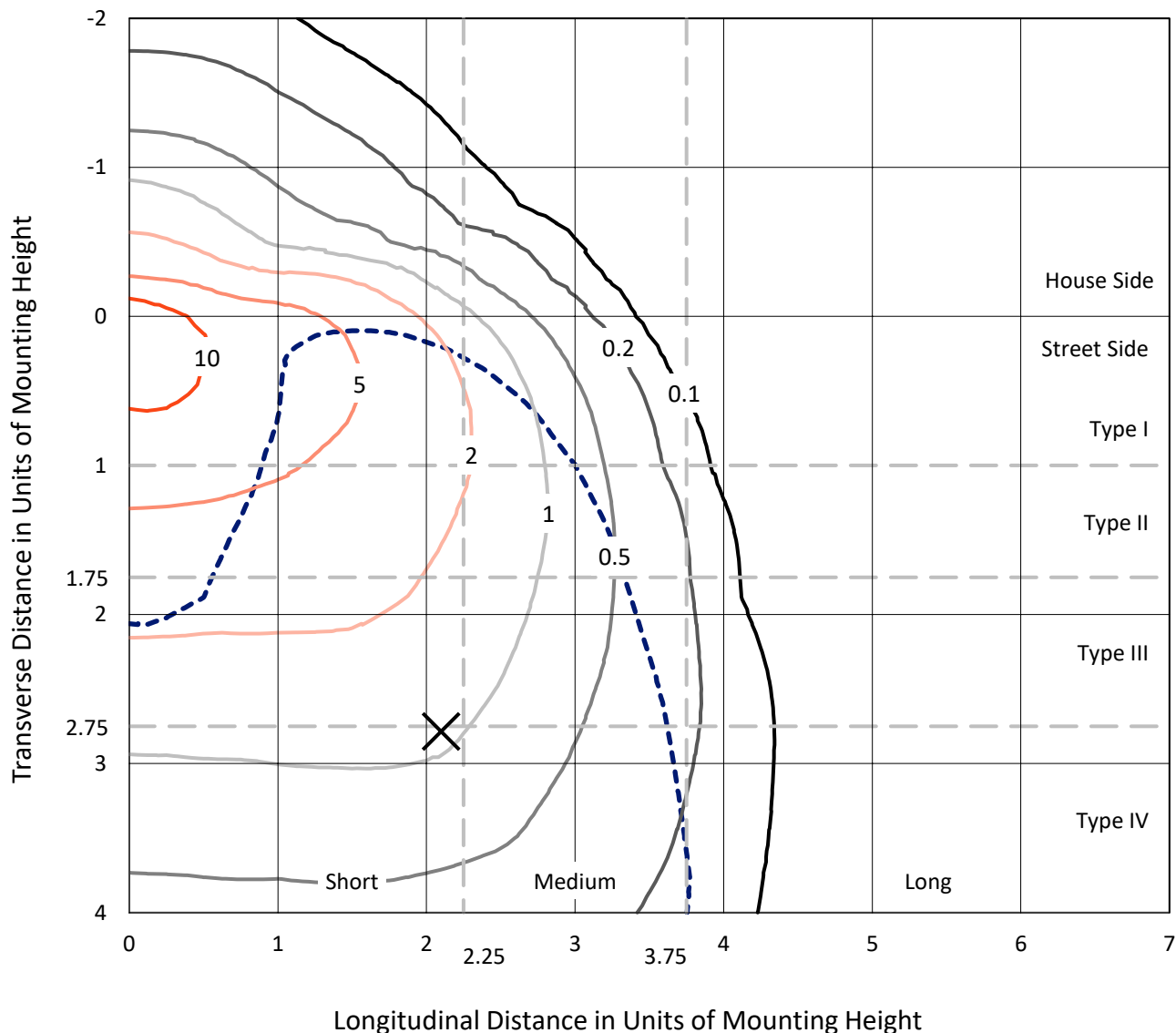
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

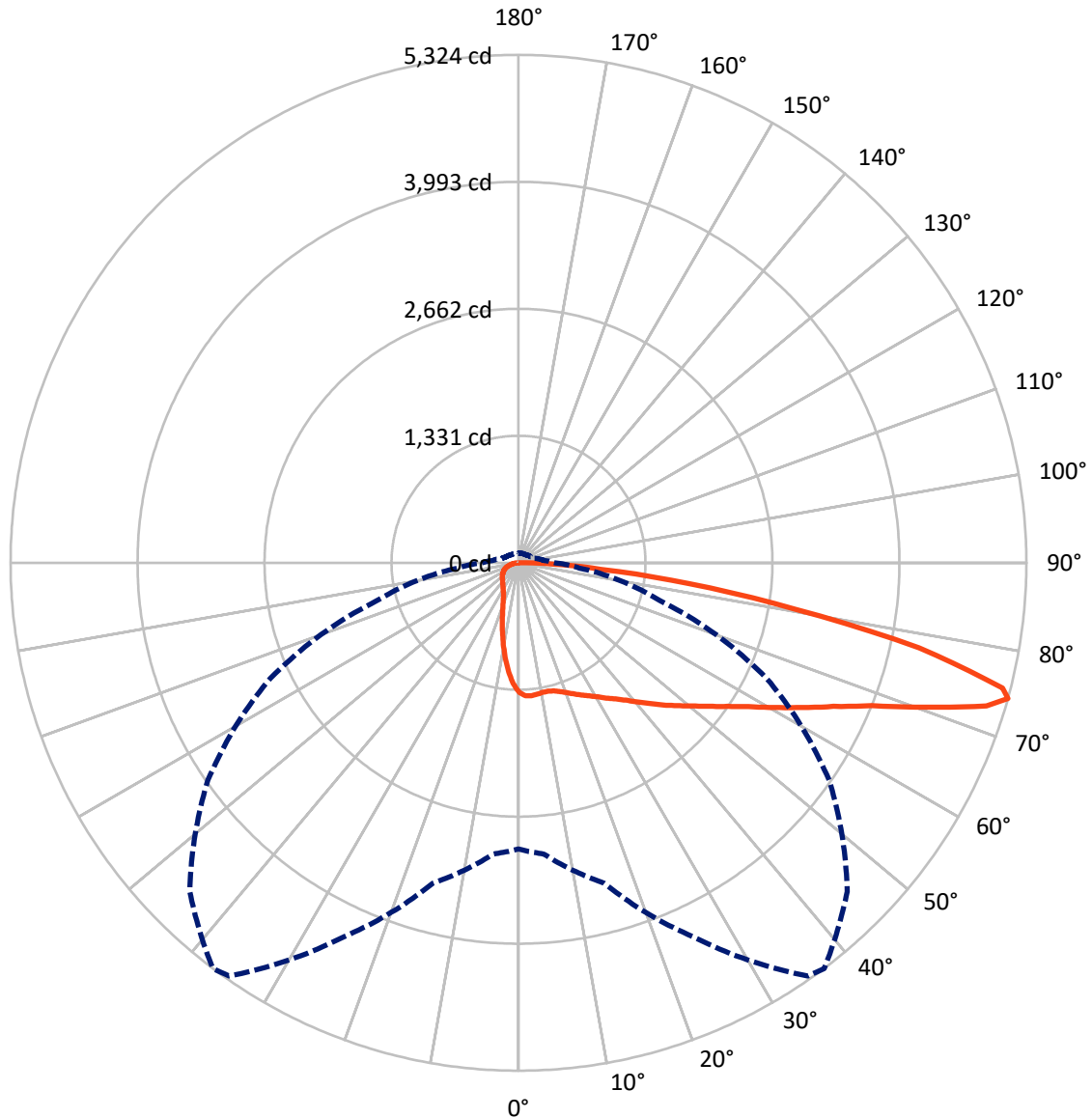
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 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	1063.0	0.0	1063.0
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	6663.0	0.0	6663.0
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	7726.0	0.0	7726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	1.6
10°-20°	307.3	4.0
20°-30°	473.5	6.1
30°-40°	688.5	8.9
40°-50°	1013.3	13.1
50°-60°	1423.0	18.4
60°-70°	1801.1	23.3
70°-80°	1585.9	20.5
80°-90°	313.6	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°	7726.0	100.0
0°-180°	7726.0	100.0

**Coefficient of Utilization**

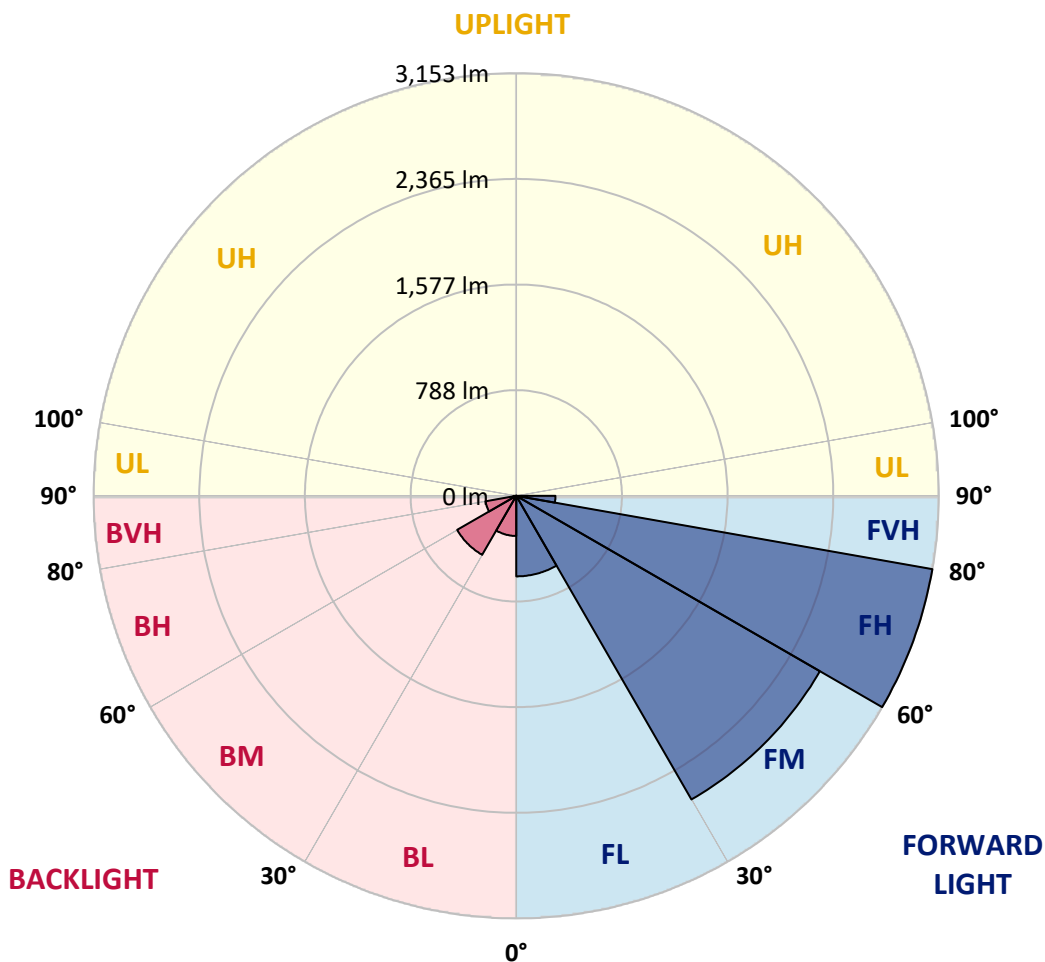


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.2	7.8			
FM (30°-60°)	2616.1	33.9			
FH (60°-80°)	3153.4	40.8			G2/5000
FVH (80°-90°)	292.3	3.8			G3/500
BL (0°-30°)	299.4	3.9	B1/500		
BM (30°-60°)	508.7	6.6	B1/1000		
BH (60°-80°)	233.7	3.0	B1/500		G1/500
BVH (80°-90°)	21.2	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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1407.8	1408.1	1407.8	1405.7	1400.5	1396.1	1392.6	1387.4	1376.0	1367.3	1354.2
5°	1421.2	1419.5	1418.4	1414.4	1406.2	1401.3	1394.5	1384.7	1365.9	1348.5	1327.3
7.5°	1414.9	1413.0	1410.6	1405.7	1396.4	1392.3	1382.8	1370.0	1347.4	1324.6	1294.1
10°	1395.6	1395.0	1393.9	1392.9	1385.0	1381.7	1373.0	1359.4	1337.1	1309.3	1273.7
12.5°	1374.1	1375.4	1379.8	1385.5	1382.0	1380.3	1374.9	1365.6	1342.8	1312.8	1269.8
15°	1360.5	1364.3	1376.0	1391.0	1393.9	1393.4	1392.0	1386.1	1361.8	1328.6	1278.6
17.5°	1355.8	1362.1	1384.4	1409.2	1417.9	1419.8	1420.3	1410.0	1383.1	1348.0	1287.5
20°	1364.3	1372.2	1404.8	1438.9	1452.7	1453.8	1451.4	1433.4	1403.2	1364.6	1292.4
22.5°	1389.9	1396.9	1437.8	1476.1	1491.9	1493.6	1486.2	1459.0	1424.4	1384.2	1299.2
25°	1439.1	1447.8	1488.7	1527.0	1535.2	1535.5	1524.9	1491.1	1452.2	1411.6	1313.9
27.5°	1503.4	1512.1	1548.8	1586.4	1582.0	1579.6	1565.1	1531.4	1488.4	1449.5	1340.1
30°	1574.9	1584.5	1619.3	1646.0	1635.6	1630.7	1619.0	1575.5	1538.7	1501.2	1380.1
32.5°	1649.0	1657.7	1688.1	1706.4	1693.3	1691.1	1673.4	1633.7	1604.3	1580.1	1444.8
35°	1724.9	1731.1	1761.1	1771.4	1754.0	1753.5	1748.6	1712.1	1693.6	1705.0	1539.0
37.5°	1802.4	1804.1	1829.7	1830.2	1825.0	1827.2	1832.4	1809.5	1814.7	1850.3	1661.5
40°	1871.6	1875.9	1894.4	1900.1	1909.1	1916.7	1942.6	1927.6	1967.6	2030.8	1813.9
42.5°	1922.7	1931.2	1960.8	1975.5	2004.7	2016.6	2053.1	2067.0	2147.5	2242.2	1995.1
45°	1966.0	1979.1	2026.7	2056.9	2106.2	2127.1	2179.4	2225.9	2350.8	2471.7	2185.9
47.5°	2012.8	2029.4	2089.0	2146.7	2213.7	2237.3	2332.3	2402.0	2567.7	2702.4	2365.8
50°	2081.7	2094.5	2152.7	2243.3	2326.9	2357.4	2488.8	2588.7	2788.2	2922.3	2521.7
52.5°	2177.7	2172.8	2222.1	2349.2	2461.3	2498.9	2655.9	2787.4	3011.6	3121.3	2653.5
55°	2274.4	2266.2	2300.8	2460.0	2618.1	2657.5	2839.9	2986.8	3224.2	3300.4	2754.4
57.5°	2381.9	2366.3	2395.5	2584.9	2796.6	2843.7	3045.9	3198.8	3433.2	3445.1	2818.7
60°	2492.6	2471.7	2504.3	2739.7	3023.3	3078.8	3287.0	3405.7	3630.2	3561.1	2839.3
62.5°	2589.5	2574.8	2625.2	2912.5	3278.9	3339.8	3523.8	3625.6	3824.5	3609.2	2764.8
65°	2674.1	2676.6	2763.7	3106.9	3563.8	3628.8	3795.4	3896.6	3977.5	3580.7	2590.3
67.5°	2775.1	2789.0	2937.6	3362.7	3922.5	3993.8	4190.6	4192.2	4062.9	3413.0	2246.9
70°	2922.3	2950.9	3176.8	3717.6	4432.5	4530.5	4682.3	4365.8	3942.9	2958.5	1767.9
72.5°	3053.0	3106.3	3431.3	4123.6	5054.1	5128.4	4970.0	4265.7	3441.3	2217.2	1101.4
74°	2999.9	3066.0	3477.5	4323.6	5288.1	5323.8	4872.8	3973.4	2869.3	1535.5	640.1
75°	2885.6	2957.4	3410.0	4321.7	5258.5	5238.6	4638.2	3639.5	2363.1	1047.2	425.9
77.5°	2328.8	2404.7	2873.4	3704.0	4311.7	4292.9	3563.0	2441.5	1035.0	343.5	216.4
80°	1353.9	1411.9	1783.7	2352.2	2907.4	2941.4	2343.2	1208.1	407.1	193.0	146.7
82.5°	601.5	641.5	861.6	1200.7	1754.5	1798.4	1227.1	633.0	251.5	117.3	88.2
85°	394.6	424.3	523.1	571.8	835.5	865.4	600.6	492.9	166.0	64.5	64.8
87.5°	283.9	312.4	388.6	339.4	383.5	363.0	326.9	456.1	66.7	36.7	21.8
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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1348.5	1344.1	1334.3	1315.8	1305.5	1296.8	1282.4	1273.9	1270.1	1269.8	1271.5
5°	1315.0	1305.0	1279.6	1248.6	1223.9	1201.3	1173.2	1156.4	1144.4	1137.3	1139.2
7.5°	1276.1	1260.3	1220.6	1171.1	1131.3	1087.5	1044.2	1018.4	998.2	983.3	986.0
10°	1249.4	1227.7	1169.7	1098.4	1032.3	968.6	909.0	873.3	845.0	823.3	824.9
12.5°	1240.5	1211.1	1130.8	1035.5	942.7	855.6	777.8	723.1	694.0	669.2	671.1
15°	1241.8	1202.4	1098.1	978.9	862.2	752.5	658.1	594.1	554.6	537.5	537.8
17.5°	1242.9	1192.3	1063.8	918.2	782.4	656.2	553.6	488.8	451.5	435.7	436.0
20°	1239.4	1176.0	1021.4	848.6	699.2	567.7	468.4	413.4	385.1	372.8	372.8
22.5°	1234.7	1156.6	973.5	778.6	617.0	491.0	407.4	365.5	349.2	341.0	340.7
25°	1236.9	1142.2	924.5	706.8	541.3	429.7	366.9	339.1	328.2	323.0	322.8
27.5°	1248.6	1135.4	879.3	635.2	475.2	383.7	339.6	320.0	313.0	309.7	309.7
30°	1269.8	1135.4	832.2	574.2	420.2	349.7	318.7	305.4	300.5	298.3	298.3
32.5°	1306.9	1141.7	786.8	513.8	376.4	323.0	301.3	292.3	288.5	287.4	287.4
35°	1370.5	1162.9	742.4	456.7	341.0	301.3	284.7	279.5	276.8	276.5	277.3
37.5°	1460.1	1206.2	700.8	414.5	316.0	283.6	270.8	266.7	265.1	266.4	267.5
40°	1572.8	1265.0	663.0	376.4	296.9	269.4	258.0	255.3	254.5	256.4	258.0
42.5°	1708.8	1344.4	631.9	348.9	282.2	257.5	247.1	243.8	243.0	245.2	247.4
45°	1856.1	1429.9	610.2	328.5	270.8	248.5	237.6	234.0	232.4	233.5	236.0
47.5°	1990.0	1510.7	601.5	314.1	259.9	240.9	229.1	224.8	222.1	221.5	223.4
50°	2102.9	1570.8	605.5	305.4	251.2	232.4	221.0	216.1	212.0	209.6	210.9
52.5°	2185.1	1608.7	609.3	301.5	244.4	223.2	212.0	207.4	201.9	197.9	197.9
55°	2244.7	1617.4	600.9	298.5	239.2	213.1	201.9	197.6	192.1	187.5	187.0
57.5°	2268.1	1592.9	569.6	294.2	235.7	203.6	191.3	188.1	183.4	178.0	177.7
60°	2236.5	1517.2	509.2	284.9	231.1	195.7	180.7	178.5	176.4	171.2	170.9
62.5°	2109.7	1351.2	431.1	266.2	221.8	187.2	170.9	172.0	172.3	168.7	168.2
65°	1879.7	1123.2	354.9	241.7	207.9	177.2	160.8	166.0	169.0	168.5	167.6
67.5°	1545.5	874.1	300.7	215.8	189.7	163.3	150.0	155.9	158.4	160.3	159.8
70°	1147.1	616.4	248.7	188.6	167.6	147.0	135.8	138.8	137.2	139.3	140.2
72.5°	639.6	369.9	202.8	161.4	144.8	127.9	120.0	119.5	115.9	115.9	115.9
74°	383.7	271.3	178.3	144.5	130.9	115.4	108.6	106.1	102.9	103.1	102.9
75°	308.6	233.2	163.6	133.4	121.1	108.0	101.2	98.0	95.5	95.5	95.3
77.5°	194.9	177.2	131.7	106.1	96.9	89.0	84.4	80.0	80.0	79.7	79.5
80°	147.2	141.0	102.6	80.3	74.3	68.3	65.3	63.4	63.4	64.2	64.0
82.5°	101.0	106.1	72.1	56.1	53.1	48.7	48.2	48.4	47.6	46.5	46.3
85°	73.8	79.7	48.7	35.4	32.4	29.7	31.8	32.9	31.6	29.1	28.0
87.5°	28.3	52.3	26.1	14.7	13.6	11.7	13.6	14.2	15.2	12.0	12.2
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)