

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: P386529

Luminaire Tested: GAW-SA2B-722-U-SL4

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386529  
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-SA2B-722-U-SL4  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2200K, 800mA 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: 8331 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

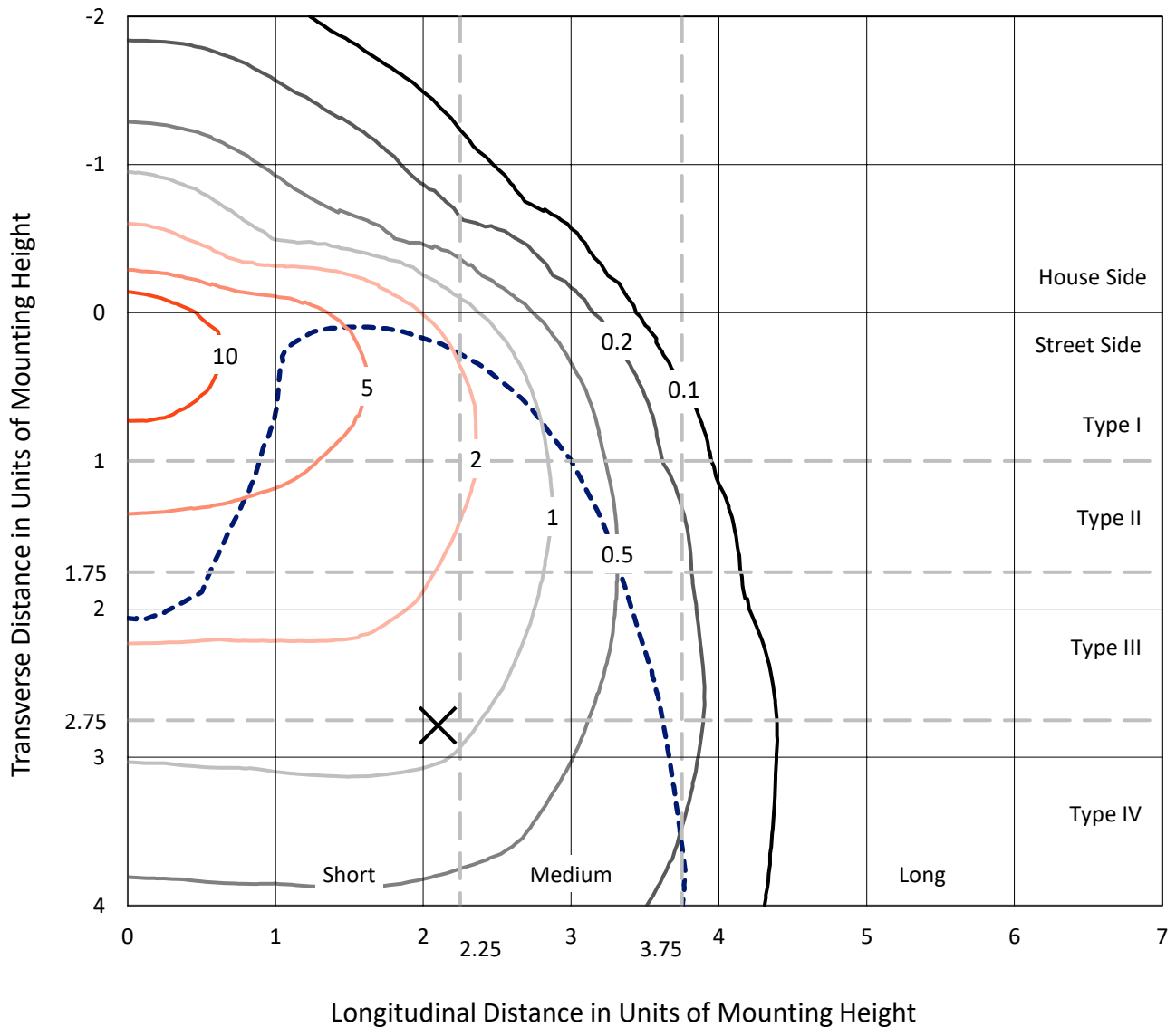
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

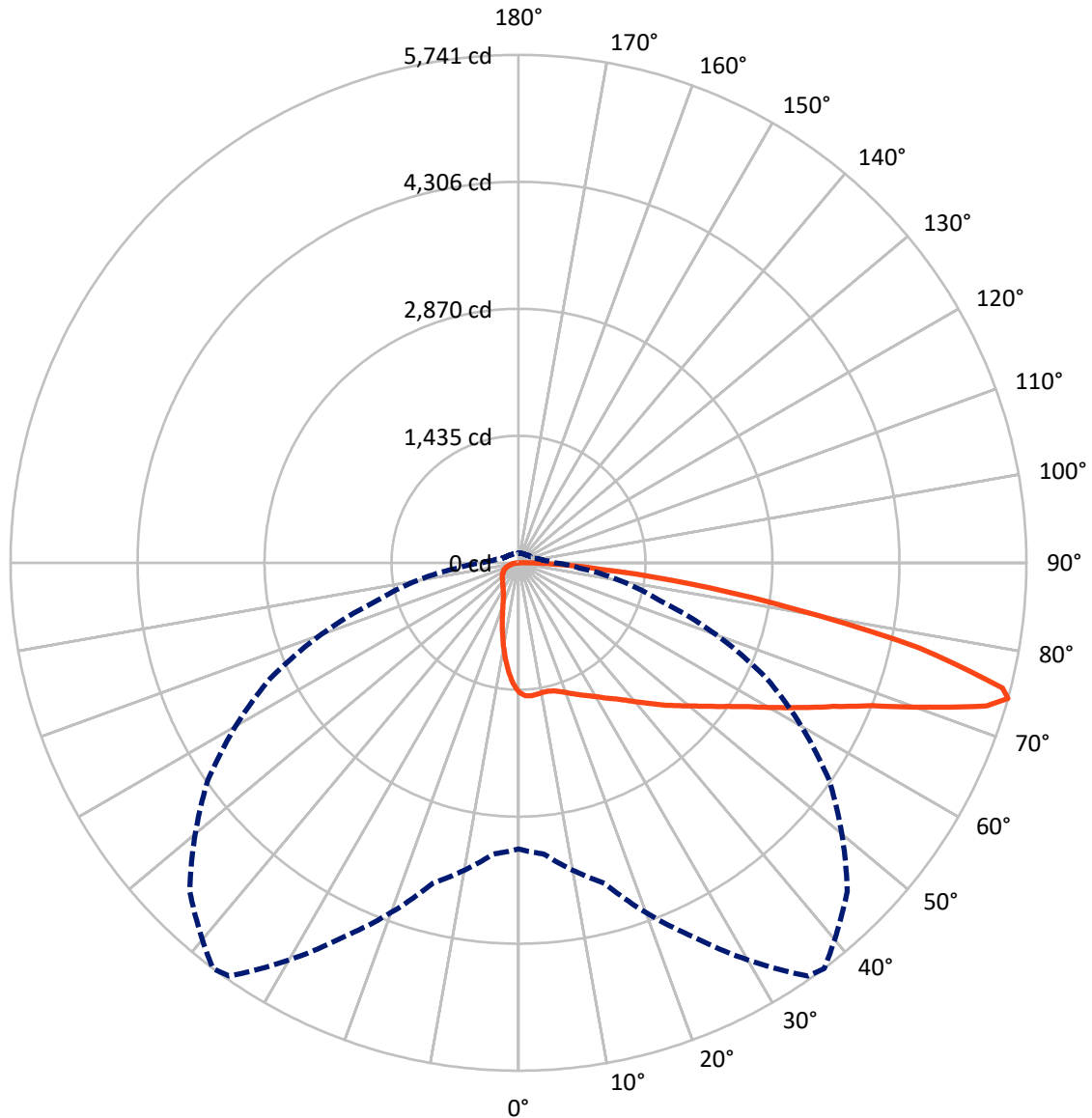
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 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	1146.3	0.0	1146.3
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	7184.7	0.0	7184.7
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	8331.0	0.0	8331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	1.6
10°-20°	331.3	4.0
20°-30°	510.5	6.1
30°-40°	742.4	8.9
40°-50°	1092.7	13.1
50°-60°	1534.4	18.4
60°-70°	1942.1	23.3
70°-80°	1710.1	20.5
80°-90°	338.1	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°	8331.0	100.0
0°-180°	8331.0	100.0

**Coefficient of Utilization**



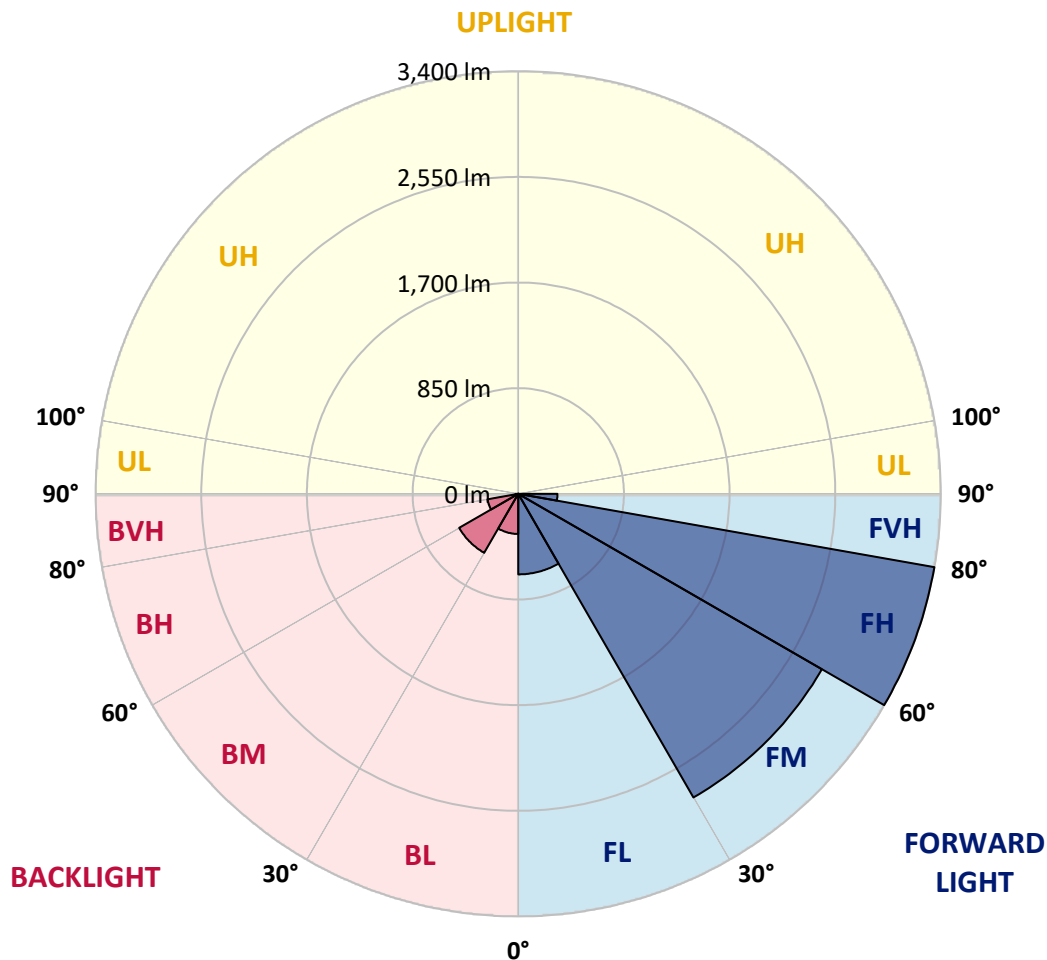
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.2	7.8			
FM (30°-60°)	2820.9	33.9			
FH (60°-80°)	3400.3	40.8			G2/5000
FVH (80°-90°)	315.2	3.8			G3/500
BL (0°-30°)	322.9	3.9	B1/500		
BM (30°-60°)	548.5	6.6	B1/1000		
BH (60°-80°)	252.0	3.0	B1/500		G1/500
BVH (80°-90°)	22.9	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°	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9
2.5°	1518.1	1518.4	1518.1	1515.7	1510.1	1505.5	1501.6	1496.1	1483.7	1474.3	1460.3
5°	1532.5	1530.7	1529.5	1525.1	1516.3	1511.0	1503.7	1493.1	1472.9	1454.1	1431.2
7.5°	1525.7	1523.6	1521.0	1515.7	1505.7	1501.3	1491.1	1477.3	1452.9	1428.3	1395.4
10°	1504.9	1504.3	1503.1	1501.9	1493.4	1489.9	1480.5	1465.8	1441.8	1411.8	1373.4
12.5°	1481.7	1483.1	1487.8	1494.0	1490.2	1488.4	1482.6	1472.6	1447.9	1415.7	1369.3
15°	1467.0	1471.1	1483.7	1499.9	1503.1	1502.5	1501.1	1494.6	1468.5	1432.7	1378.7
17.5°	1462.0	1468.8	1492.8	1519.5	1528.9	1531.0	1531.6	1520.4	1491.4	1453.5	1388.4
20°	1471.1	1479.6	1514.8	1551.5	1566.5	1567.7	1565.0	1545.7	1513.1	1471.4	1393.6
22.5°	1498.7	1506.3	1550.4	1591.7	1608.8	1610.5	1602.6	1573.2	1536.0	1492.5	1401.0
25°	1551.8	1561.2	1605.2	1646.6	1655.4	1655.7	1644.3	1607.9	1565.9	1522.2	1416.8
27.5°	1621.1	1630.5	1670.1	1710.6	1705.9	1703.2	1687.7	1651.3	1604.9	1563.0	1445.0
30°	1698.3	1708.5	1746.1	1774.8	1763.7	1758.4	1745.8	1698.8	1659.2	1618.7	1488.1
32.5°	1778.1	1787.5	1820.3	1840.0	1825.9	1823.6	1804.5	1761.6	1730.0	1703.8	1558.0
35°	1860.0	1866.7	1899.0	1910.1	1891.4	1890.8	1885.5	1846.2	1826.2	1838.5	1659.5
37.5°	1943.6	1945.4	1972.9	1973.5	1967.9	1970.3	1975.9	1951.2	1956.8	1995.2	1791.6
40°	2018.1	2022.8	2042.8	2048.9	2058.6	2066.8	2094.7	2078.6	2121.7	2189.8	1955.9
42.5°	2073.3	2082.4	2114.4	2130.2	2161.6	2174.5	2213.9	2228.8	2315.7	2417.8	2151.4
45°	2120.0	2134.0	2185.4	2218.0	2271.1	2293.7	2350.0	2400.2	2534.9	2665.2	2357.1
47.5°	2170.4	2188.3	2252.6	2314.8	2387.0	2412.5	2515.0	2590.1	2768.8	2914.1	2551.1
50°	2244.7	2258.5	2321.3	2419.0	2509.1	2542.0	2683.7	2791.4	3006.5	3151.2	2719.2
52.5°	2348.3	2343.0	2396.1	2533.2	2654.1	2694.6	2863.9	3005.6	3247.4	3365.7	2861.2
55°	2452.5	2443.6	2480.9	2652.6	2823.1	2865.6	3062.3	3220.7	3476.6	3558.8	2970.1
57.5°	2568.4	2551.6	2583.0	2787.3	3015.6	3066.4	3284.4	3449.3	3702.0	3714.9	3039.4
60°	2687.8	2665.2	2700.4	2954.3	3260.1	3319.9	3544.4	3672.4	3914.5	3839.9	3061.7
62.5°	2792.3	2776.4	2830.7	3140.6	3535.6	3601.3	3799.7	3909.5	4124.0	3891.9	2981.3
65°	2883.5	2886.2	2980.1	3350.1	3842.9	3913.0	4092.6	4201.8	4288.9	3861.1	2793.2
67.5°	2992.4	3007.4	3167.6	3626.0	4229.6	4306.5	4518.7	4520.5	4381.1	3680.3	2422.8
70°	3151.2	3182.0	3425.6	4008.7	4779.6	4885.2	5049.0	4707.7	4251.7	3190.2	1906.3
72.5°	3292.0	3349.6	3700.0	4446.5	5449.9	5530.0	5359.2	4599.7	3710.8	2390.8	1187.6
74°	3234.8	3306.1	3749.8	4662.2	5702.2	5740.7	5254.4	4284.5	3094.0	1655.7	690.2
75°	3111.6	3189.0	3677.1	4660.2	5670.2	5648.8	5001.4	3924.4	2548.1	1129.2	459.3
77.5°	2511.1	2593.0	3098.4	3994.0	4649.3	4629.0	3842.0	2632.6	1116.0	370.3	233.3
80°	1460.0	1522.5	1923.3	2536.4	3135.0	3171.7	2526.7	1302.7	439.0	208.1	158.2
82.5°	648.5	691.7	929.1	1294.7	1891.9	1939.2	1323.2	682.6	271.2	126.5	95.1
85°	425.5	457.5	564.0	616.6	900.9	933.2	647.7	531.5	179.0	69.6	69.8
87.5°	306.1	336.9	419.1	365.9	413.5	391.5	352.4	491.8	71.9	39.6	23.5
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°	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9
2.5°	1454.1	1449.4	1438.8	1418.9	1407.7	1398.3	1382.8	1373.7	1369.6	1369.3	1371.0
5°	1418.0	1407.1	1379.9	1346.4	1319.7	1295.3	1265.1	1246.9	1234.0	1226.4	1228.4
7.5°	1376.0	1359.0	1316.2	1262.8	1219.9	1172.7	1126.0	1098.1	1076.4	1060.3	1063.2
10°	1347.3	1323.8	1261.3	1184.4	1113.1	1044.4	980.2	941.7	911.2	887.7	889.5
12.5°	1337.6	1305.9	1219.3	1116.6	1016.5	922.6	838.7	779.7	748.3	721.6	723.7
15°	1339.1	1296.5	1184.1	1055.6	929.7	811.4	709.6	640.6	598.1	579.6	579.9
17.5°	1340.2	1285.7	1147.1	990.1	843.7	707.5	596.9	527.1	486.9	469.8	470.1
20°	1336.4	1268.0	1101.4	915.0	753.9	612.2	505.0	445.8	415.2	402.0	402.0
22.5°	1331.4	1247.2	1049.7	839.6	665.3	529.4	439.3	394.1	376.5	367.7	367.4
25°	1333.8	1231.7	996.9	762.1	583.7	463.4	395.6	365.7	353.9	348.3	348.0
27.5°	1346.4	1224.3	948.2	684.9	512.4	413.8	366.2	345.1	337.5	334.0	334.0
30°	1369.3	1224.3	897.4	619.2	453.1	377.1	343.6	329.3	324.0	321.6	321.6
32.5°	1409.2	1231.1	848.4	554.1	405.9	348.3	324.9	315.2	311.1	309.9	309.9
35°	1477.9	1254.0	800.6	492.4	367.7	324.9	307.0	301.4	298.4	298.2	299.0
37.5°	1574.4	1300.6	755.7	446.9	340.7	305.8	292.0	287.6	285.8	287.3	288.5
40°	1695.9	1364.0	714.9	405.9	320.2	290.5	278.2	275.3	274.4	276.4	278.2
42.5°	1842.6	1449.7	681.4	376.2	304.3	277.6	266.5	262.9	262.1	264.4	266.8
45°	2001.4	1541.8	657.9	354.2	292.0	267.9	256.2	252.4	250.6	251.8	254.4
47.5°	2145.8	1629.0	648.5	338.7	280.3	259.7	247.1	242.4	239.5	238.9	240.9
50°	2267.6	1693.9	652.9	329.3	270.9	250.6	238.3	233.0	228.6	226.0	227.4
52.5°	2356.2	1734.6	657.1	325.2	263.5	240.6	228.6	223.6	217.7	213.3	213.3
55°	2420.5	1744.0	648.0	321.9	258.0	229.8	217.7	213.1	207.2	202.2	201.6
57.5°	2445.7	1717.6	614.2	317.2	254.1	219.5	206.3	202.8	197.8	191.9	191.6
60°	2411.7	1636.0	549.1	307.3	249.1	211.0	194.9	192.5	190.2	184.6	184.3
62.5°	2274.9	1457.0	464.8	287.0	239.2	201.9	184.3	185.5	185.8	181.9	181.4
65°	2026.9	1211.1	382.7	260.6	224.2	191.0	173.4	179.0	182.2	181.7	180.8
67.5°	1666.6	942.6	324.3	232.7	204.5	176.1	161.7	168.2	170.8	172.8	172.3
70°	1236.9	664.7	268.2	203.4	180.8	158.5	146.4	149.7	147.9	150.3	151.1
72.5°	689.6	398.8	218.6	174.0	156.1	137.9	129.4	128.8	125.0	125.0	125.0
74°	413.8	292.6	192.2	155.8	141.2	124.4	117.1	114.4	110.9	111.2	110.9
75°	332.8	251.5	176.4	143.8	130.6	116.5	109.2	105.6	103.0	103.0	102.7
77.5°	210.1	191.0	142.0	114.4	104.5	96.0	91.0	86.3	86.3	86.0	85.7
80°	158.8	152.0	110.6	86.6	80.1	73.7	70.4	68.4	68.4	69.3	69.0
82.5°	108.9	114.4	77.8	60.5	57.2	52.5	51.9	52.2	51.4	50.2	49.9
85°	79.5	86.0	52.5	38.1	34.9	32.0	34.3	35.5	34.0	31.4	30.2
87.5°	30.5	56.3	28.2	15.8	14.7	12.6	14.7	15.3	16.4	12.9	13.2
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)