

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: P386852

Luminaire Tested: GAW-SA2C-735-U-T4W-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-735-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10051.5 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

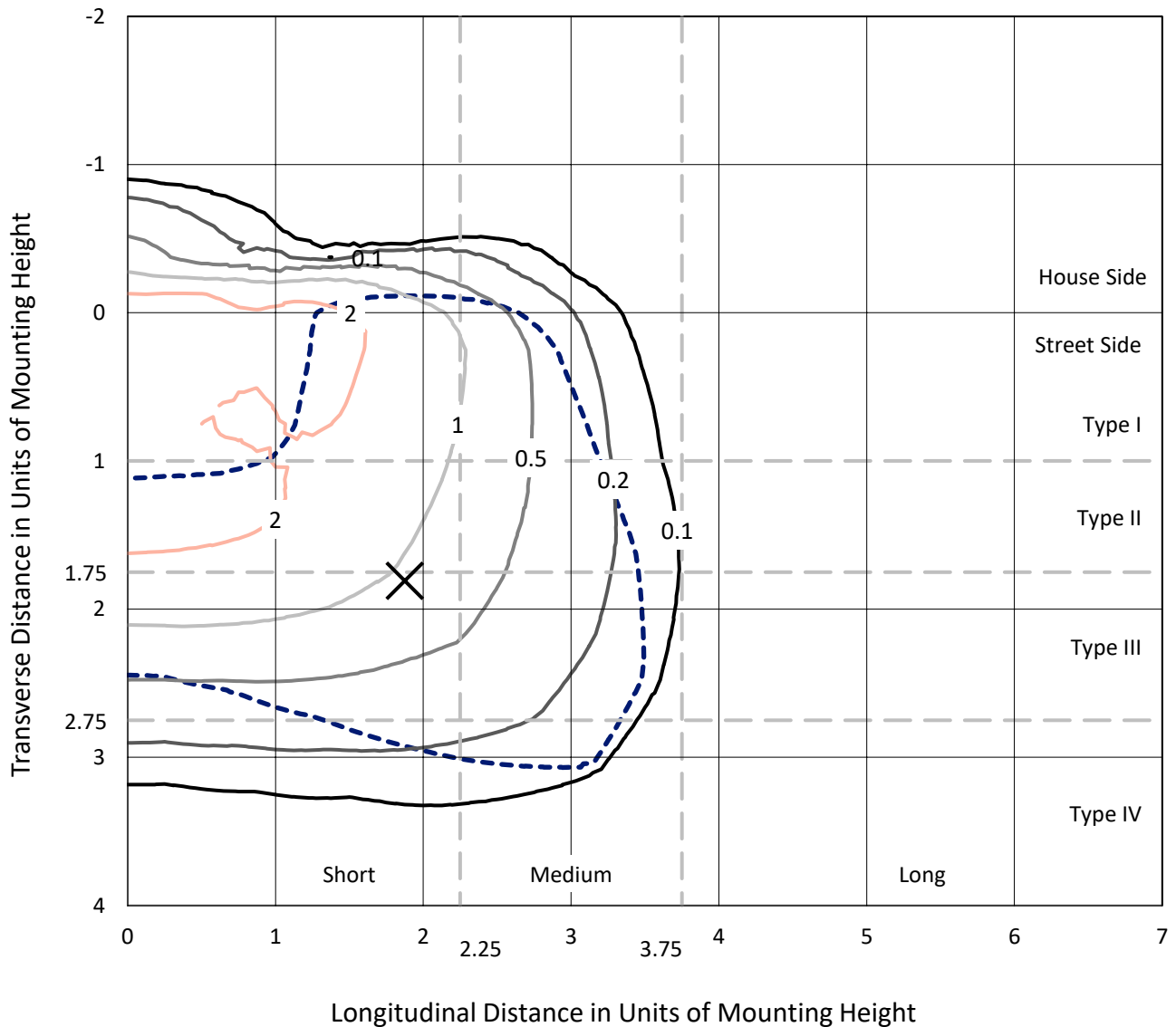
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

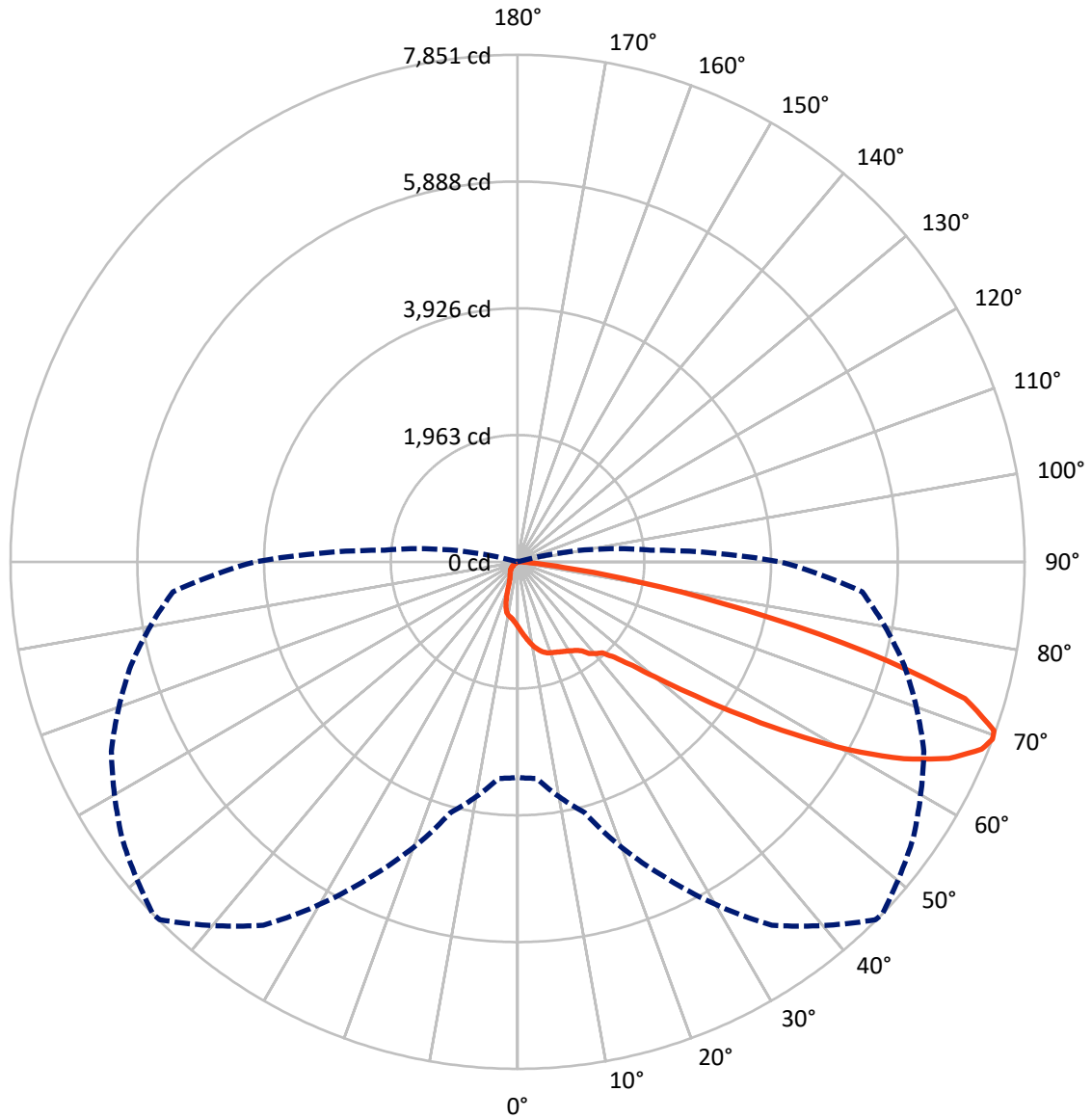
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1031.5	0.0	1031.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	9020.0	0.0	9020.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	10051.5	0.0	10051.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	1.0
10°-20°	304.1	3.0
20°-30°	478.3	4.8
30°-40°	685.8	6.8
40°-50°	1185.4	11.8
50°-60°	2341.9	23.3
60°-70°	3273.0	32.6
70°-80°	1581.2	15.7
80°-90°	101.6	1.0
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°	10051.5	100.0
0°-180°	10051.5	100.0

**Coefficient of Utilization**



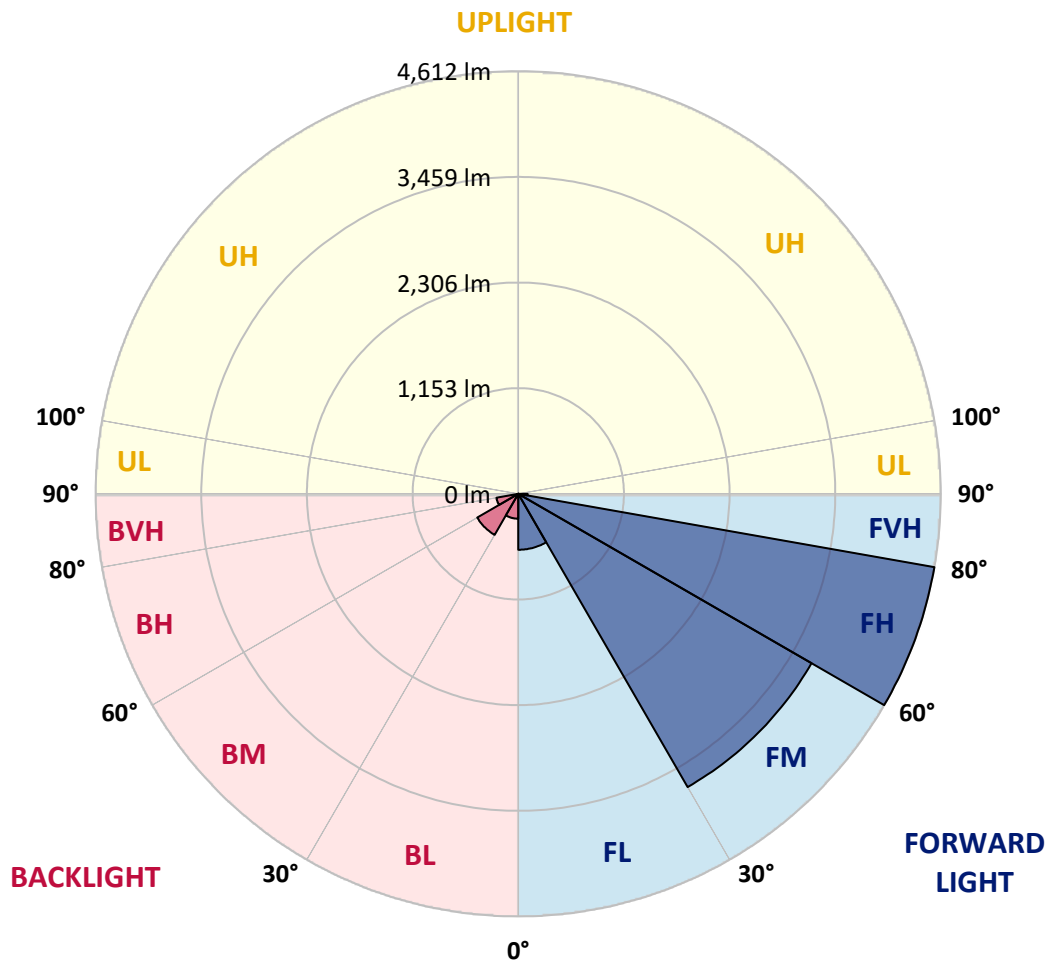
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.7	6.1			
FM (30°-60°)	3696.2	36.8			
FH (60°-80°)	4612.3	45.9			G2/5000
FVH (80°-90°)	100.8	1.0			G2/225
BL (0°-30°)	271.9	2.7	B1/500		
BM (30°-60°)	516.9	5.1	B1/1000		
BH (60°-80°)	241.9	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1
2.5°	1118.8	1117.4	1110.8	1108.0	1092.0	1082.6	1078.8	1067.0	1050.1	1033.1	1014.2
5°	1246.1	1245.6	1233.3	1221.6	1191.4	1163.2	1157.9	1130.6	1092.4	1056.6	1020.7
7.5°	1376.1	1370.0	1357.8	1335.2	1291.3	1246.1	1241.8	1203.2	1149.0	1097.1	1045.7
10°	1486.4	1482.6	1466.6	1432.2	1380.8	1329.5	1324.3	1276.7	1215.4	1151.8	1086.3
12.5°	1572.2	1569.4	1548.1	1505.3	1450.6	1397.3	1390.3	1347.8	1282.4	1211.2	1133.9
15°	1624.5	1623.1	1597.2	1551.4	1497.8	1451.6	1445.4	1408.2	1347.4	1273.0	1185.7
17.5°	1636.8	1637.3	1610.4	1564.2	1519.8	1486.9	1482.2	1453.9	1403.0	1329.1	1237.6
20°	1609.5	1615.1	1591.1	1550.9	1523.6	1506.2	1502.5	1485.5	1442.6	1372.8	1279.1
22.5°	1570.8	1573.6	1557.1	1530.3	1518.9	1522.2	1520.3	1510.9	1474.7	1410.5	1320.0
25°	1547.2	1547.2	1537.3	1514.7	1522.2	1542.5	1543.0	1541.1	1512.3	1456.7	1370.0
27.5°	1546.2	1543.4	1532.2	1515.1	1535.9	1567.0	1568.9	1581.7	1563.7	1512.8	1432.2
30°	1584.0	1580.7	1556.7	1534.5	1560.9	1594.3	1599.0	1626.8	1617.9	1573.6	1501.5
32.5°	1672.1	1660.3	1607.0	1570.8	1590.6	1630.6	1636.8	1681.0	1695.2	1648.5	1568.4
35°	1792.7	1755.5	1678.7	1639.6	1641.5	1683.4	1689.0	1754.1	1796.0	1717.3	1620.3
37.5°	1959.1	1940.7	1815.8	1711.2	1719.7	1783.3	1799.8	1870.5	1858.7	1755.1	1679.2
40°	2323.9	2295.1	2162.2	1911.9	1794.6	1864.4	1869.6	1907.3	1908.2	1840.4	1801.7
42.5°	2820.6	2808.8	2668.8	2276.2	1942.1	1918.6	1928.0	1991.6	2062.8	2020.4	2018.5
45°	3370.5	3364.4	3216.0	2759.8	2240.5	2096.3	2108.0	2193.3	2329.5	2339.0	2398.8
47.5°	3813.1	3810.3	3725.0	3299.4	2697.1	2397.4	2401.2	2491.6	2731.1	2849.4	2945.0
50°	4216.6	4230.2	4162.8	3883.4	3319.3	2869.2	2860.2	2920.5	3305.1	3498.8	3617.5
52.5°	4777.4	4796.6	4607.7	4428.1	3971.9	3454.4	3447.4	3510.5	3995.1	4140.2	4161.4
55°	5272.6	5239.7	5090.3	5038.4	4767.9	4177.4	4175.5	4231.1	4662.4	4724.1	4763.2
57.5°	5491.3	5478.6	5550.7	5669.5	5601.6	5031.9	5027.6	4985.2	5259.5	5266.1	5386.3
60°	5629.4	5645.0	5866.0	6232.2	6401.4	5951.3	5924.0	5665.3	5829.7	5815.1	5943.7
62.5°	5525.8	5556.4	5954.2	6564.5	6999.9	6753.9	6715.3	6288.3	6317.0	6266.6	6386.3
65°	4975.3	5022.9	5674.7	6501.7	7296.8	7381.2	7342.0	6838.2	6704.0	6621.0	6554.5
67.5°	4039.8	4068.0	4748.6	5956.5	7163.0	7755.4	7747.4	7320.4	6996.1	6561.2	6045.6
69°	3338.5	3366.3	4021.5	5382.4	6868.5	7835.5	7851.1	7474.9	6940.5	6197.4	5356.5
70°	2827.7	2857.4	3467.7	4890.5	6526.7	7798.3	7826.1	7460.4	6781.2	5776.0	4751.9
72.5°	1483.1	1508.6	2134.9	3369.1	5320.7	7160.6	7245.0	6829.8	5748.2	4194.9	2809.7
75°	466.1	480.7	833.7	1761.2	3643.0	5567.7	5587.0	5357.6	4081.8	2307.3	1170.2
77.5°	177.6	173.4	277.6	648.9	1841.8	3505.8	3624.2	3348.0	2142.0	815.8	270.1
80°	95.6	96.1	144.2	268.7	788.0	1801.7	1901.6	1622.6	761.1	254.5	62.2
82.5°	41.4	43.4	81.1	142.3	361.9	664.5	714.5	594.7	290.7	171.1	23.1
85°	8.9	9.9	39.1	77.3	147.5	186.7	195.6	192.8	185.2	132.9	8.9
87.5°	0.0	0.0	17.5	27.8	37.2	42.5	37.2	48.6	102.3	89.5	4.7
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°	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1	1007.1
2.5°	1008.1	999.6	985.0	969.0	957.6	945.9	936.4	932.2	927.5	924.2	928.4
5°	1006.2	989.7	961.4	934.0	914.3	898.2	885.1	879.8	874.7	870.9	870.4
7.5°	1022.7	999.6	956.2	916.2	885.6	863.9	845.9	838.4	832.3	829.5	827.1
10°	1054.3	1024.6	966.6	914.3	874.7	837.9	799.3	769.6	750.3	741.3	738.0
12.5°	1095.2	1058.0	986.4	924.2	866.7	795.9	714.0	643.3	597.5	582.5	573.6
15°	1143.3	1097.1	1012.3	936.9	837.5	708.3	569.3	476.9	434.6	426.0	416.6
17.5°	1189.6	1138.6	1043.4	939.3	773.4	566.0	417.1	354.4	337.9	343.5	344.9
20°	1230.0	1179.6	1074.0	918.5	656.9	424.6	322.9	307.3	313.4	324.3	326.2
22.5°	1271.0	1219.2	1102.3	863.9	508.0	322.4	290.7	294.6	300.7	311.5	313.4
25°	1321.0	1267.2	1128.7	763.4	381.3	274.3	276.2	281.8	287.9	297.9	298.8
27.5°	1378.5	1328.0	1146.2	633.0	282.8	252.1	258.2	266.8	272.9	282.3	284.2
30°	1454.8	1408.2	1151.8	497.7	237.0	232.3	235.1	245.6	254.5	262.9	264.3
32.5°	1526.5	1487.3	1132.9	375.6	219.6	214.0	214.0	220.1	230.4	238.5	240.4
35°	1592.5	1567.0	1072.6	274.8	206.4	197.0	192.3	192.3	198.9	205.4	207.3
37.5°	1679.6	1678.7	975.1	219.2	193.7	182.9	172.9	165.4	163.1	164.5	165.4
40°	1829.0	1830.4	847.8	196.5	182.9	168.2	153.1	139.5	126.8	122.5	122.0
42.5°	2062.3	2041.1	714.5	185.7	173.4	153.1	130.6	112.2	92.3	86.2	85.8
45°	2432.7	2306.9	573.0	175.8	163.5	136.2	107.9	82.9	66.9	62.2	62.2
47.5°	2972.3	2656.1	444.0	165.0	150.3	116.9	81.5	59.8	49.0	46.7	47.2
50°	3530.3	2998.3	340.2	151.2	134.3	96.6	60.3	43.4	37.2	37.2	37.7
52.5°	4025.2	3249.0	265.3	136.7	114.5	75.9	45.7	33.9	31.1	30.6	31.1
55°	4488.4	3410.7	203.1	119.7	90.9	56.6	34.9	27.8	25.9	25.0	24.5
57.5°	4935.2	3490.8	152.2	96.6	65.9	41.0	27.8	23.6	21.7	20.3	19.8
60°	5232.6	3425.7	104.6	71.2	45.7	29.7	23.1	20.3	17.9	16.5	16.1
62.5°	5400.4	3248.0	67.4	51.4	32.5	22.2	18.4	17.0	13.6	12.2	12.2
65°	5332.6	2955.0	47.2	36.7	23.6	16.5	13.6	13.6	9.9	8.0	7.5
67.5°	4725.5	2496.3	35.8	27.3	17.0	12.2	10.3	11.7	6.1	3.8	3.8
69°	4065.7	2068.9	30.6	22.6	14.2	9.9	8.9	10.8	4.2	2.8	2.3
70°	3533.6	1784.8	27.8	19.8	11.7	8.5	8.0	10.3	4.2	2.3	1.9
72.5°	2114.2	995.4	21.2	14.2	7.5	6.6	6.6	11.7	4.2	2.3	1.9
75°	854.5	350.7	15.6	9.9	5.6	5.6	8.0	15.1	3.8	1.9	1.4
77.5°	193.7	76.8	8.9	6.1	3.8	5.6	9.4	11.7	2.3	0.9	0.0
80°	47.2	18.9	5.6	3.8	2.3	4.2	7.0	6.6	0.5	0.0	0.0
82.5°	15.6	6.6	2.3	1.9	0.5	1.4	3.3	1.9	0.0	0.0	0.0
85°	6.6	3.8	0.9	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.2	1.4	0.0	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)