

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: P386360

Luminaire Tested: GAW-SA2A-730-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-730-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7187 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

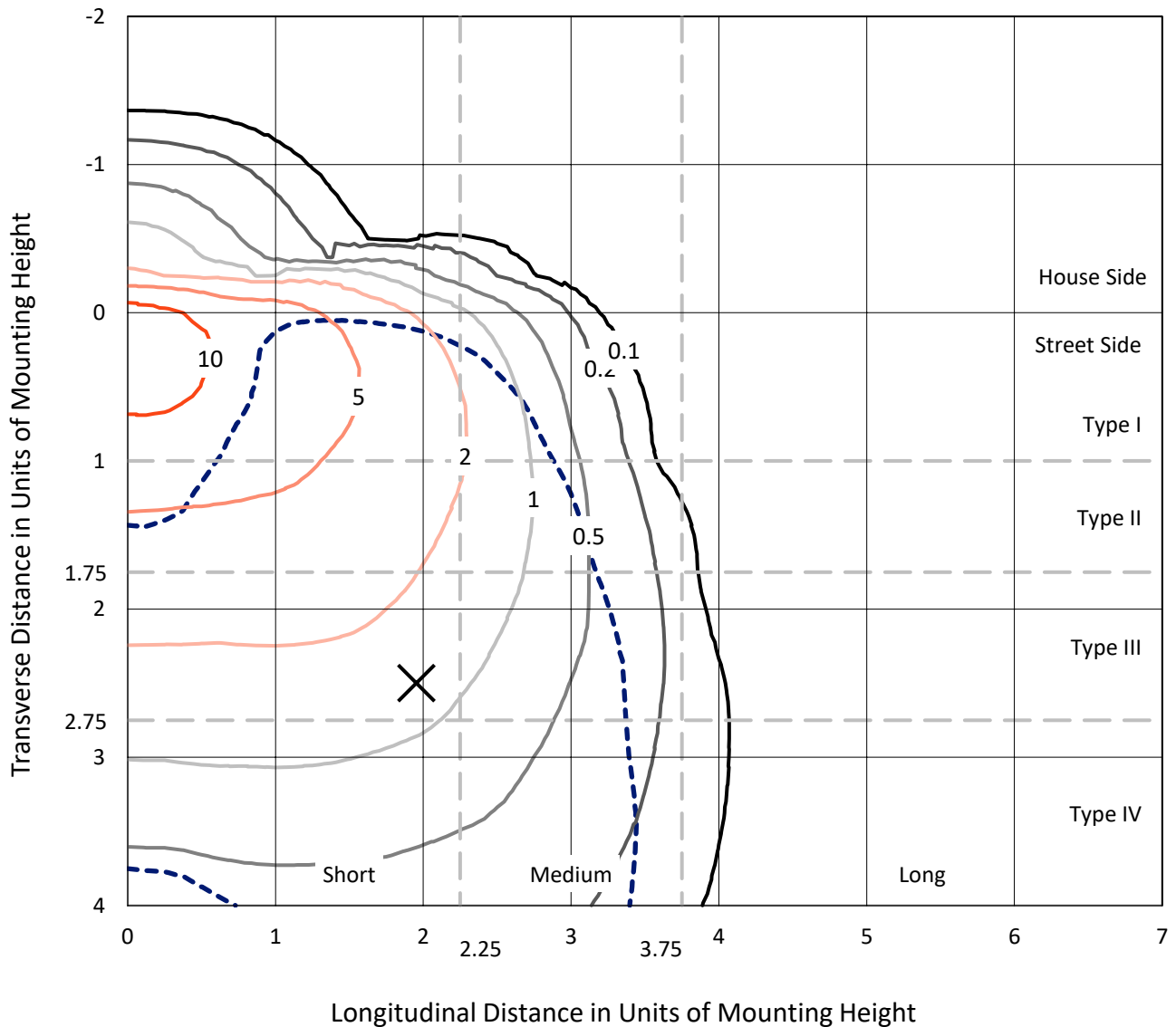
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

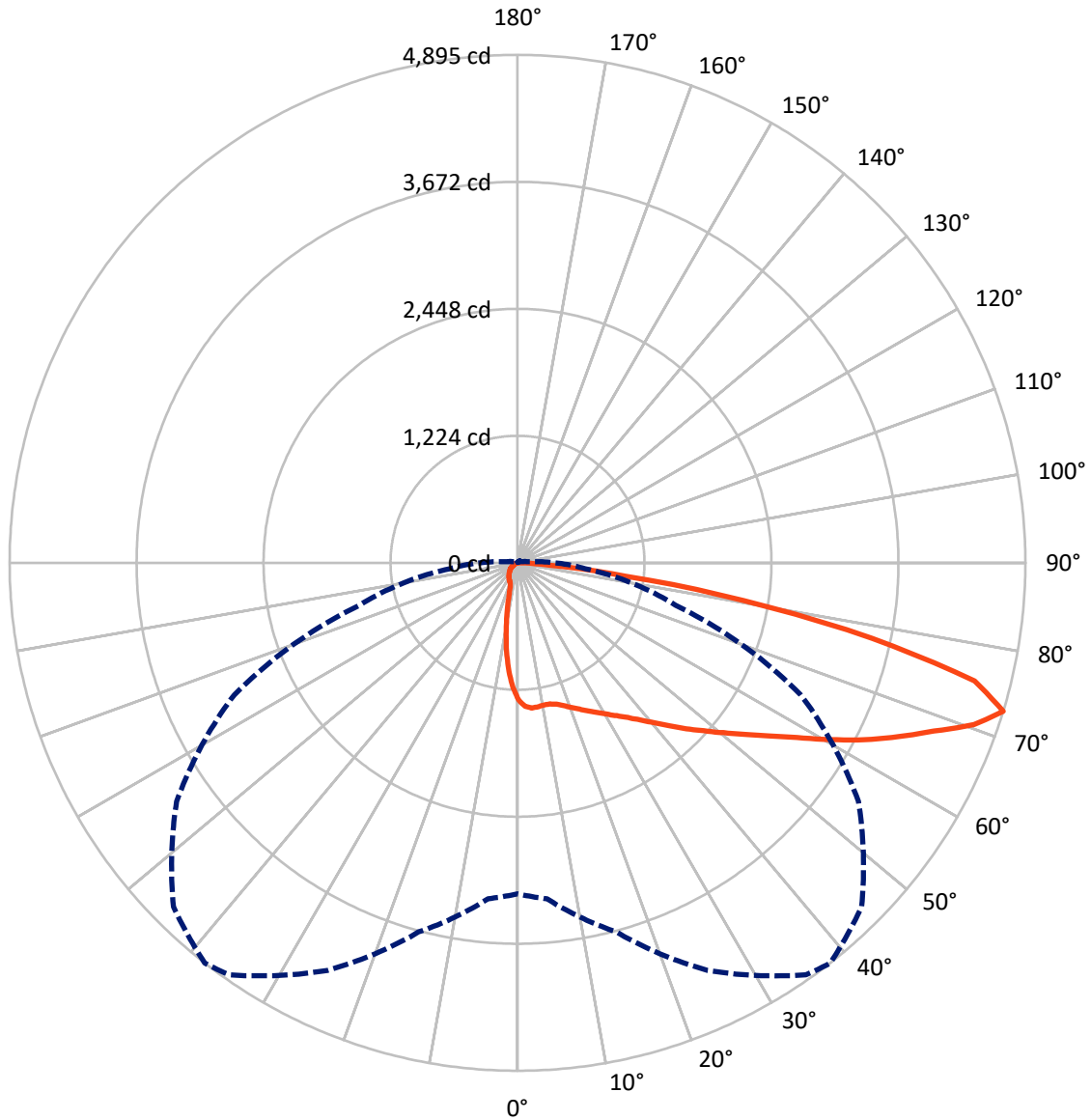
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	604.8	0.0	604.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6582.2	0.0	6582.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7187.0	0.0	7187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	1.6
10°-20°	275.4	3.8
20°-30°	438.0	6.1
30°-40°	658.5	9.2
40°-50°	1004.6	14.0
50°-60°	1419.9	19.8
60°-70°	1781.0	24.8
70°-80°	1331.7	18.5
80°-90°	165.1	2.3
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°	7187.0	100.0
0°-180°	7187.0	100.0

**Coefficient of Utilization**



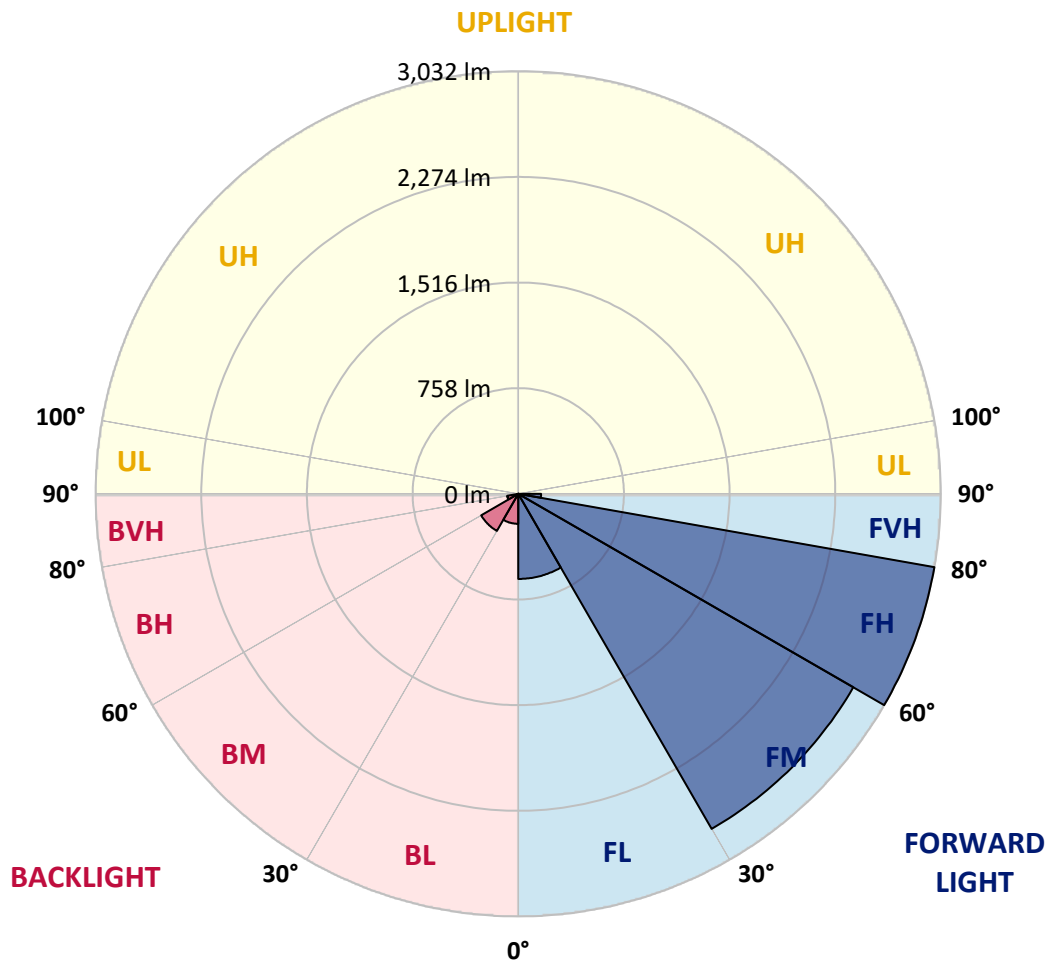
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.7	8.5			
FM (30°-60°)	2775.9	38.6			
FH (60°-80°)	3031.9	42.2			G2/5000
FVH (80°-90°)	163.6	2.3			G2/225
BL (0°-30°)	215.4	3.0	B1/500		
BM (30°-60°)	307.1	4.3	B1/1000		
BH (60°-80°)	80.8	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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°	38°	45°	55°	65°	75°	85°
0°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
2.5°	1402.9	1403.2	1399.9	1394.5	1387.6	1384.0	1378.1	1368.5	1358.4	1340.2	1320.5
5°	1431.5	1431.5	1427.3	1420.2	1409.1	1405.8	1394.5	1379.3	1358.4	1328.8	1295.7
7.5°	1428.5	1429.1	1423.4	1416.0	1404.9	1402.0	1388.2	1371.2	1345.2	1309.4	1267.0
10°	1413.0	1414.5	1410.0	1406.4	1396.3	1393.0	1380.2	1363.2	1337.2	1299.0	1250.3
12.5°	1397.2	1398.7	1400.2	1403.4	1397.2	1396.0	1385.8	1371.5	1346.7	1307.0	1252.1
15°	1387.0	1390.0	1400.8	1413.6	1415.1	1413.9	1407.3	1393.9	1368.8	1327.6	1265.0
17.5°	1387.0	1391.8	1414.2	1438.7	1447.3	1448.2	1442.5	1423.7	1393.9	1349.7	1276.9
20°	1398.7	1405.2	1440.2	1474.8	1489.1	1489.1	1478.1	1451.8	1416.9	1369.7	1285.0
22.5°	1428.5	1437.2	1481.1	1521.0	1536.3	1533.0	1518.1	1479.9	1440.8	1392.4	1295.1
25°	1487.3	1493.9	1539.6	1579.9	1589.1	1581.6	1562.8	1513.9	1471.2	1423.1	1313.6
27.5°	1563.1	1564.0	1611.2	1645.2	1639.5	1634.5	1610.9	1556.6	1515.1	1467.0	1345.5
30°	1646.4	1646.4	1687.9	1713.9	1696.6	1692.4	1668.8	1608.2	1571.2	1526.7	1390.9
32.5°	1727.0	1730.6	1764.3	1780.7	1761.3	1757.1	1734.2	1673.6	1645.8	1617.8	1461.7
35°	1804.9	1807.6	1839.5	1848.5	1830.0	1831.2	1814.8	1763.4	1753.0	1749.4	1568.2
37.5°	1880.4	1881.0	1913.5	1919.2	1910.0	1920.1	1921.6	1876.2	1895.6	1924.6	1718.3
40°	1949.4	1950.0	1982.2	1996.8	2012.6	2025.8	2037.4	2013.2	2077.4	2144.6	1897.1
42.5°	2004.6	2010.9	2051.7	2079.5	2121.3	2146.4	2178.0	2176.8	2293.8	2394.7	2113.2
45°	2053.2	2064.0	2121.0	2169.6	2241.3	2281.3	2330.8	2369.6	2537.4	2673.2	2332.0
47.5°	2117.4	2127.6	2192.6	2272.3	2367.8	2420.4	2502.4	2586.3	2805.1	2946.6	2545.7
50°	2207.9	2203.4	2267.5	2381.9	2504.5	2573.5	2690.5	2816.2	3070.8	3184.8	2671.4
52.5°	2304.3	2302.5	2349.9	2501.0	2665.7	2746.3	2900.9	3053.7	3324.8	3348.9	2729.0
55°	2423.7	2410.8	2450.8	2636.8	2857.0	2943.6	3125.7	3288.9	3527.1	3441.5	2757.9
57.5°	2548.7	2527.5	2565.7	2788.1	3072.8	3175.2	3374.6	3518.2	3661.7	3504.7	2757.6
60°	2678.0	2652.9	2698.3	2977.3	3340.9	3459.4	3644.4	3673.1	3787.4	3536.7	2737.4
62.5°	2786.0	2771.1	2838.5	3179.7	3640.3	3756.7	3848.3	3814.0	3893.4	3561.5	2689.9
65°	2900.3	2901.2	3010.2	3415.8	3958.4	4036.9	4044.7	3996.6	3982.0	3556.4	2529.3
67.5°	3054.9	3069.3	3251.0	3736.4	4268.0	4328.5	4327.9	4194.5	4046.8	3354.6	2173.2
70°	3218.5	3252.2	3528.6	4103.2	4605.8	4667.3	4635.7	4320.5	3810.4	2712.6	1538.1
72.5°	3191.0	3249.5	3682.9	4334.5	4848.5	4895.4	4689.7	4011.0	3011.7	1576.6	654.9
75°	2461.9	2529.6	3377.0	4105.3	4593.9	4551.8	4029.5	3121.2	1645.8	440.0	147.4
77.5°	1300.5	1336.6	2230.8	3127.5	3582.0	3494.0	2838.5	1731.5	501.7	108.9	66.3
80°	681.1	689.5	972.1	1774.5	2210.8	2211.4	1682.2	760.5	206.8	55.8	44.5
82.5°	364.7	371.9	513.7	819.9	1158.4	1050.0	644.1	418.5	120.3	31.6	42.7
85°	87.8	89.2	291.3	374.6	455.5	325.3	191.3	351.3	32.5	18.5	34.6
87.5°	33.7	34.3	108.0	162.1	116.1	75.2	89.5	131.0	4.2	7.2	5.4
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°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
2.5°	1308.5	1300.8	1281.7	1257.5	1236.0	1220.5	1197.2	1182.0	1171.8	1171.5	1167.7
5°	1275.4	1259.6	1218.4	1169.4	1125.0	1085.0	1037.8	1000.5	972.7	968.3	958.7
7.5°	1239.9	1213.9	1150.6	1074.2	999.6	923.8	835.7	781.1	734.3	711.9	709.5
10°	1218.1	1181.7	1091.8	981.4	864.4	741.1	625.9	546.2	488.6	472.2	460.0
12.5°	1213.6	1165.6	1046.5	894.2	727.1	564.1	436.7	351.9	305.9	291.3	287.4
15°	1218.1	1158.1	1008.3	808.0	588.0	400.3	293.1	243.9	226.5	222.4	222.1
17.5°	1220.8	1149.1	965.0	712.2	453.1	285.9	224.5	210.1	207.4	207.1	207.7
20°	1220.5	1135.4	913.3	605.3	337.0	224.8	203.0	200.0	199.4	199.7	199.4
22.5°	1218.4	1119.3	856.6	495.2	254.6	200.9	193.7	191.9	191.6	191.6	191.6
25°	1222.3	1106.5	794.3	389.8	209.8	189.8	185.4	183.9	183.6	183.6	183.0
27.5°	1236.3	1099.3	725.9	300.0	189.5	180.0	176.4	176.1	175.2	174.9	175.5
30°	1259.0	1099.3	651.0	233.4	177.3	169.8	167.1	166.6	166.3	166.0	166.3
32.5°	1299.0	1107.7	569.2	194.0	165.7	158.5	156.7	157.6	156.7	156.7	156.7
35°	1371.2	1132.7	483.5	169.2	153.4	147.4	145.7	146.9	146.3	146.3	146.0
37.5°	1476.6	1179.3	397.3	154.3	142.7	136.4	134.0	135.8	135.2	135.2	134.9
40°	1604.9	1247.0	315.2	143.0	132.2	125.7	123.6	124.5	123.0	123.0	123.6
42.5°	1763.4	1333.0	243.6	131.9	121.8	115.5	114.3	113.4	110.7	109.2	109.5
45°	1939.5	1422.6	189.8	121.2	111.9	106.9	105.1	102.7	98.2	95.2	95.5
47.5°	2096.8	1491.5	154.3	110.7	103.0	99.1	96.4	91.9	85.4	81.8	82.1
50°	2179.5	1501.9	131.3	100.3	94.6	90.7	86.9	80.0	72.2	68.4	68.1
52.5°	2200.7	1453.0	114.3	90.7	86.3	81.8	76.7	67.5	58.8	54.6	54.0
55°	2208.4	1378.4	99.1	81.8	77.3	72.2	65.7	55.2	47.2	43.0	42.7
57.5°	2182.8	1267.0	87.2	73.7	68.4	62.1	54.0	44.2	36.4	33.1	33.1
60°	2125.8	1116.3	77.9	65.1	59.1	51.9	43.6	34.3	27.2	24.5	24.5
62.5°	2012.0	921.1	69.2	56.1	50.4	43.0	35.2	26.0	19.1	17.6	17.9
65°	1797.4	698.7	60.6	48.1	43.0	35.5	27.5	18.5	12.8	12.8	13.4
67.5°	1465.8	485.3	51.6	40.9	37.0	29.0	20.9	12.8	9.0	10.1	11.3
70°	970.4	272.2	44.2	33.7	31.6	23.0	15.5	8.7	7.2	9.6	11.6
72.5°	366.2	106.0	37.0	27.2	27.5	17.6	11.0	6.6	6.6	10.4	13.7
75°	102.1	51.9	26.6	20.0	21.5	12.8	8.1	5.7	6.3	11.9	16.1
77.5°	60.0	38.2	17.3	11.6	14.6	9.0	5.4	4.5	5.4	10.1	15.5
80°	48.4	20.3	10.1	6.0	8.1	5.1	3.6	2.7	1.5	3.9	8.1
82.5°	48.4	12.2	4.8	4.2	4.2	2.7	1.8	1.2	0.3	0.0	2.1
85°	32.5	5.1	3.0	2.7	2.1	0.9	0.6	0.3	0.0	0.0	0.0
87.5°	5.4	2.1	1.2	0.6	0.3	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)