

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: P386388

Luminaire Tested: GAW-SA2A-735-U-SL4-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386388  
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-735-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 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: 7413.7 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

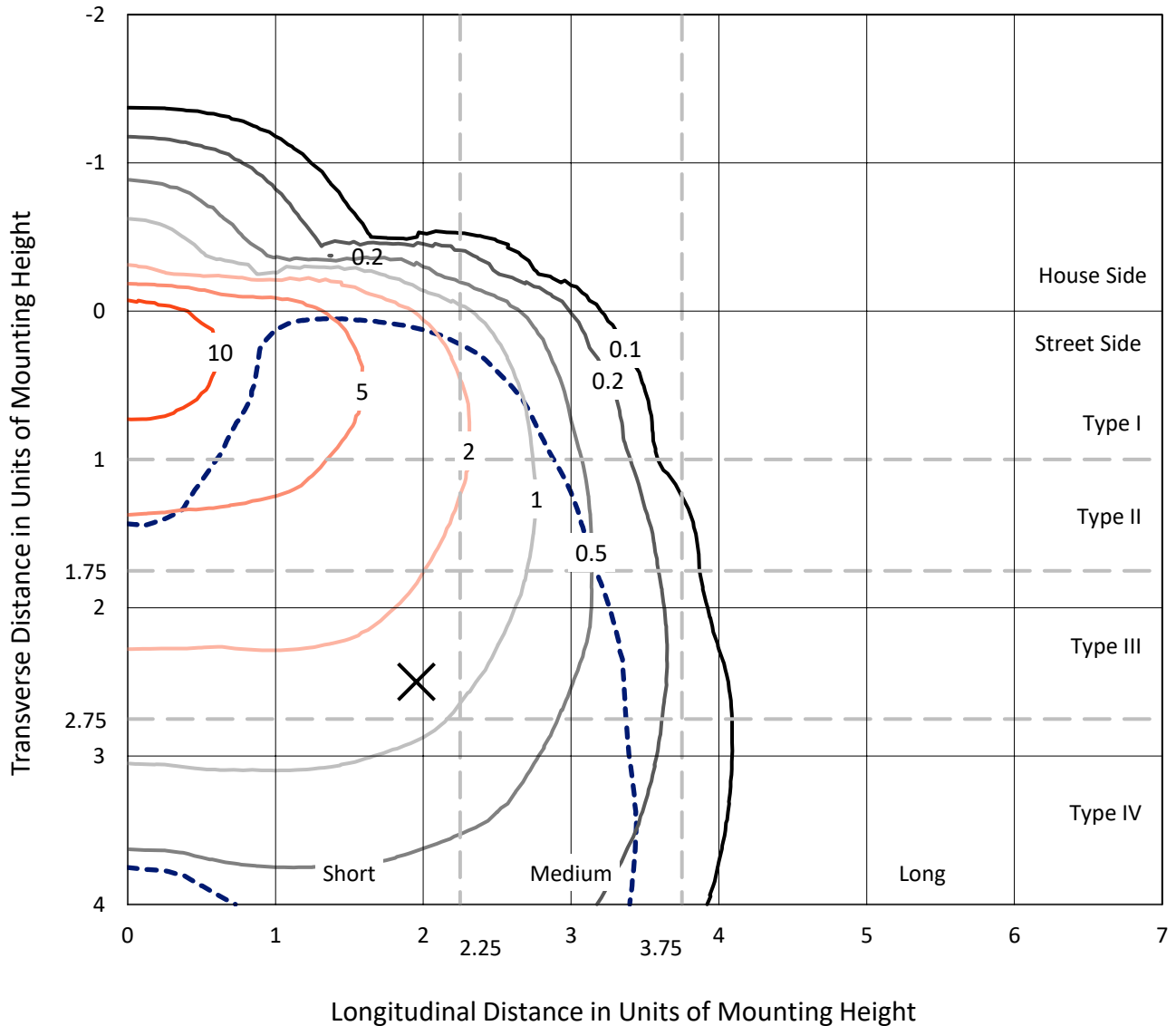
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

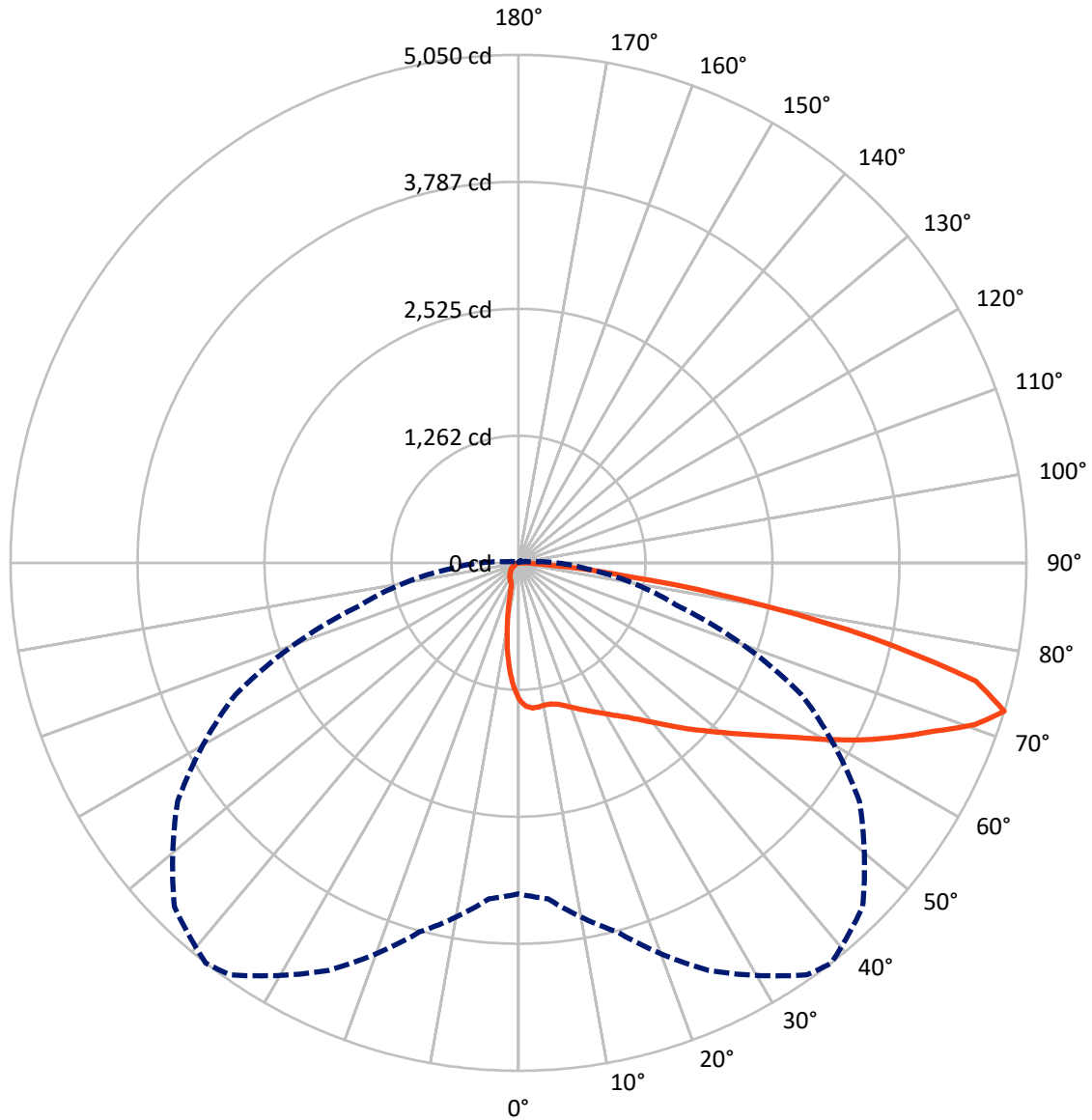
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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	623.9	0.0	623.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6789.8	0.0	6789.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7413.7	0.0	7413.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	1.6
10°-20°	284.1	3.8
20°-30°	451.9	6.1
30°-40°	679.3	9.2
40°-50°	1036.3	14.0
50°-60°	1464.7	19.8
60°-70°	1837.2	24.8
70°-80°	1373.7	18.5
80°-90°	170.3	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°	7413.7	100.0
0°-180°	7413.7	100.0

**Coefficient of Utilization**

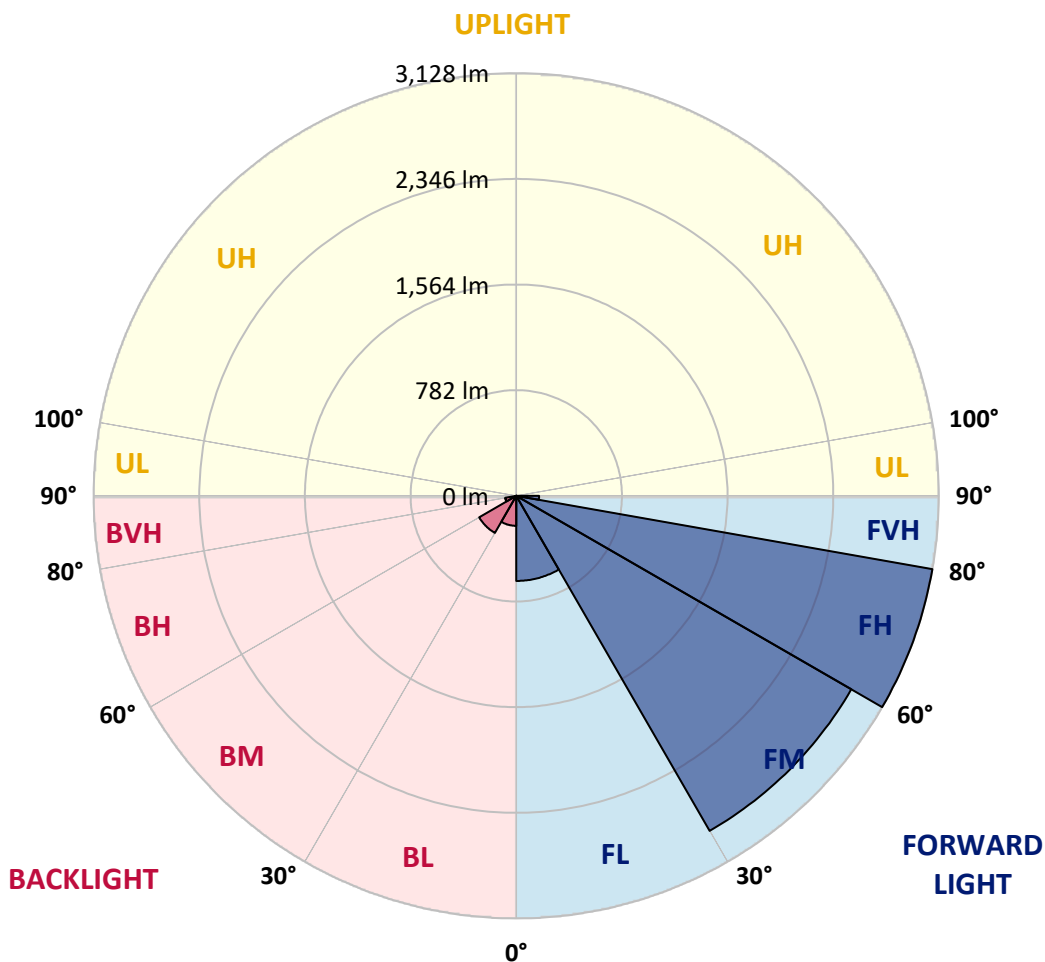


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.0	8.5			
FM (30°-60°)	2863.5	38.6			
FH (60°-80°)	3127.6	42.2			G2/5000
FVH (80°-90°)	168.7	2.3			G2/225
BL (0°-30°)	222.1	3.0	B1/500		
BM (30°-60°)	316.8	4.3	B1/1000		
BH (60°-80°)	83.3	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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°	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1447.1	1447.4	1444.0	1438.5	1431.4	1427.7	1421.6	1411.7	1401.2	1382.4	1362.1
5°	1476.6	1476.6	1472.3	1465.0	1453.5	1450.1	1438.5	1422.8	1401.2	1370.8	1336.6
7.5°	1473.6	1474.2	1468.4	1460.7	1449.3	1446.2	1432.0	1414.4	1387.7	1350.8	1307.0
10°	1457.6	1459.1	1454.5	1450.8	1440.4	1436.9	1423.7	1406.2	1379.4	1340.0	1289.8
12.5°	1441.2	1442.8	1444.3	1447.7	1441.2	1440.0	1429.6	1414.7	1389.2	1348.3	1291.6
15°	1430.8	1433.9	1445.0	1458.2	1459.7	1458.5	1451.7	1437.8	1412.0	1369.5	1304.8
17.5°	1430.8	1435.7	1458.8	1484.1	1493.0	1493.9	1488.1	1468.6	1437.8	1392.3	1317.1
20°	1442.8	1449.6	1485.6	1521.3	1536.1	1536.1	1524.7	1497.6	1461.6	1412.9	1325.5
22.5°	1473.6	1482.6	1527.7	1569.1	1584.8	1581.4	1566.0	1526.5	1486.2	1436.3	1335.9
25°	1534.2	1541.0	1588.1	1629.7	1639.2	1631.5	1612.1	1561.6	1517.6	1468.1	1355.1
27.5°	1612.5	1613.4	1662.0	1697.1	1691.3	1686.0	1661.7	1605.7	1562.9	1513.3	1388.0
30°	1698.3	1698.3	1741.2	1767.9	1750.1	1745.8	1721.4	1659.0	1620.7	1574.9	1434.8
32.5°	1781.5	1785.1	1820.0	1836.9	1816.9	1812.6	1788.9	1726.3	1697.8	1668.7	1507.7
35°	1861.9	1864.6	1897.6	1906.8	1887.7	1888.9	1872.0	1819.0	1808.2	1804.6	1617.6
37.5°	1939.8	1940.3	1973.9	1979.8	1970.2	1980.7	1982.2	1935.4	1955.4	1985.3	1772.5
40°	2010.9	2011.4	2044.7	2059.8	2076.2	2089.7	2101.7	2076.7	2142.9	2212.2	1956.9
42.5°	2067.8	2074.3	2116.5	2145.1	2188.2	2214.1	2246.7	2245.4	2366.1	2470.2	2179.9
45°	2118.0	2129.0	2187.8	2238.1	2311.9	2353.3	2404.4	2444.4	2617.4	2757.5	2405.6
47.5°	2184.2	2194.7	2261.8	2344.0	2442.5	2496.7	2581.4	2667.9	2893.6	3039.5	2626.0
50°	2277.5	2272.9	2339.1	2457.0	2583.5	2654.6	2775.3	2905.0	3167.6	3285.2	2755.6
52.5°	2376.9	2375.1	2424.0	2579.9	2749.8	2832.9	2992.4	3150.1	3429.6	3454.5	2815.1
55°	2500.1	2486.9	2528.1	2719.9	2947.2	3036.5	3224.3	3392.7	3638.4	3550.1	2845.0
57.5°	2629.1	2607.3	2646.6	2876.0	3169.8	3275.4	3481.0	3629.2	3777.2	3615.3	2844.7
60°	2762.4	2736.5	2783.3	3071.3	3446.3	3568.5	3759.4	3789.0	3906.8	3648.2	2823.7
62.5°	2873.9	2858.5	2928.1	3280.0	3755.0	3875.2	3969.7	3934.3	4016.2	3673.8	2774.8
65°	2991.8	2992.7	3105.1	3523.6	4083.3	4164.2	4172.2	4122.7	4107.6	3668.5	2609.1
67.5°	3151.3	3166.0	3353.5	3854.2	4402.6	4465.0	4464.5	4326.8	4174.4	3460.4	2241.8
70°	3320.0	3354.9	3640.0	4232.6	4751.1	4814.6	4781.9	4456.8	3930.6	2798.2	1586.5
72.5°	3291.7	3352.0	3799.1	4471.2	5001.4	5049.8	4837.6	4137.5	3106.7	1626.3	675.5
75°	2539.5	2609.4	3483.6	4234.8	4738.8	4695.4	4156.5	3219.7	1697.8	453.8	152.1
77.5°	1341.5	1378.7	2301.2	3226.1	3695.0	3604.2	2928.1	1786.1	517.6	112.4	68.4
80°	702.6	711.2	1002.8	1830.4	2280.6	2281.2	1735.2	784.5	213.3	57.6	45.8
82.5°	376.2	383.6	529.9	845.8	1194.9	1083.2	664.4	431.7	124.1	32.6	44.1
85°	90.6	92.1	300.5	386.4	469.9	335.6	197.4	362.4	33.5	19.1	35.7
87.5°	34.8	35.4	111.4	167.2	119.8	77.6	92.3	135.2	4.3	7.4	5.5
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°	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1349.8	1341.8	1322.1	1297.1	1274.9	1259.0	1234.9	1219.2	1208.8	1208.5	1204.5
5°	1315.6	1299.3	1256.8	1206.4	1160.4	1119.2	1070.5	1032.0	1003.5	998.8	989.0
7.5°	1279.0	1252.2	1186.9	1108.1	1031.2	952.9	862.1	805.7	757.4	734.3	731.9
10°	1256.5	1219.0	1126.2	1012.4	891.7	764.5	645.6	563.4	504.0	487.1	474.5
12.5°	1251.9	1202.3	1079.5	922.5	750.0	582.0	450.4	363.0	315.6	300.5	296.5
15°	1256.5	1194.6	1040.1	833.4	606.6	412.9	302.4	251.6	233.7	229.4	229.1
17.5°	1259.3	1185.4	995.4	734.6	467.3	295.0	231.6	216.7	214.0	213.7	214.3
20°	1259.0	1171.2	942.1	624.4	347.6	231.8	209.4	206.3	205.6	206.0	205.6
22.5°	1256.8	1154.6	883.7	510.8	262.7	207.2	199.8	197.9	197.6	197.6	197.6
25°	1260.9	1141.4	819.3	402.2	216.4	195.9	191.2	189.7	189.4	189.4	188.7
27.5°	1275.3	1133.9	748.8	309.4	195.5	185.6	182.0	181.7	180.7	180.5	181.0
30°	1298.7	1133.9	671.5	240.8	182.9	175.2	172.4	171.8	171.5	171.2	171.5
32.5°	1340.0	1142.6	587.1	200.1	170.9	163.5	161.7	162.6	161.7	161.7	161.7
35°	1414.4	1168.4	498.8	174.5	158.3	152.1	150.2	151.5	150.9	150.9	150.6
37.5°	1523.1	1216.5	409.8	159.2	147.2	140.7	138.3	140.1	139.5	139.5	139.1
40°	1655.6	1286.4	325.1	147.5	136.4	129.6	127.5	128.4	126.8	126.8	127.5
42.5°	1819.0	1375.1	251.3	136.1	125.6	119.1	117.9	117.0	114.2	112.7	113.0
45°	2000.7	1467.4	195.9	125.0	115.5	110.2	108.4	105.9	101.3	98.3	98.5
47.5°	2163.0	1538.5	159.2	114.2	106.2	102.2	99.5	94.8	88.0	84.4	84.6
50°	2248.3	1549.3	135.5	103.4	97.6	93.6	89.6	82.5	74.5	70.5	70.2
52.5°	2270.1	1498.8	117.9	93.6	89.0	84.4	79.1	69.6	60.7	56.4	55.7
55°	2278.1	1421.9	102.2	84.4	79.8	74.5	67.7	56.9	48.7	44.3	44.1
57.5°	2251.6	1307.0	89.9	76.1	70.5	64.1	55.7	45.6	37.6	34.2	34.2
60°	2192.8	1151.5	80.3	67.2	61.0	53.5	45.0	35.4	28.0	25.3	25.3
62.5°	2075.5	950.2	71.4	57.9	52.0	44.3	36.4	26.8	19.7	18.1	18.5
65°	1854.2	720.8	62.5	49.6	44.3	36.6	28.4	19.1	13.2	13.2	13.8
67.5°	1512.0	500.6	53.3	42.2	38.1	29.9	21.5	13.2	9.2	10.4	11.7
70°	1000.9	280.8	45.6	34.8	32.6	23.7	16.0	8.9	7.4	9.9	12.0
72.5°	377.8	109.3	38.1	28.0	28.4	18.1	11.4	6.8	6.8	10.8	14.2
75°	105.3	53.5	27.4	20.7	22.2	13.2	8.3	5.8	6.5	12.3	16.6
77.5°	61.9	39.5	17.8	12.0	15.1	9.2	5.5	4.6	5.5	10.4	16.0
80°	49.9	20.9	10.4	6.2	8.3	5.3	3.7	2.7	1.5	4.0	8.3
82.5°	49.9	12.6	4.9	4.3	4.3	2.7	1.9	1.2	0.3	0.0	2.2
85°	33.5	5.3	3.1	2.7	2.2	0.9	0.7	0.3	0.0	0.0	0.0
87.5°	5.5	2.2	1.2	0.7	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)