

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: P385649

Luminaire Tested: GAW-SA1B-722-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1B-722-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4455 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

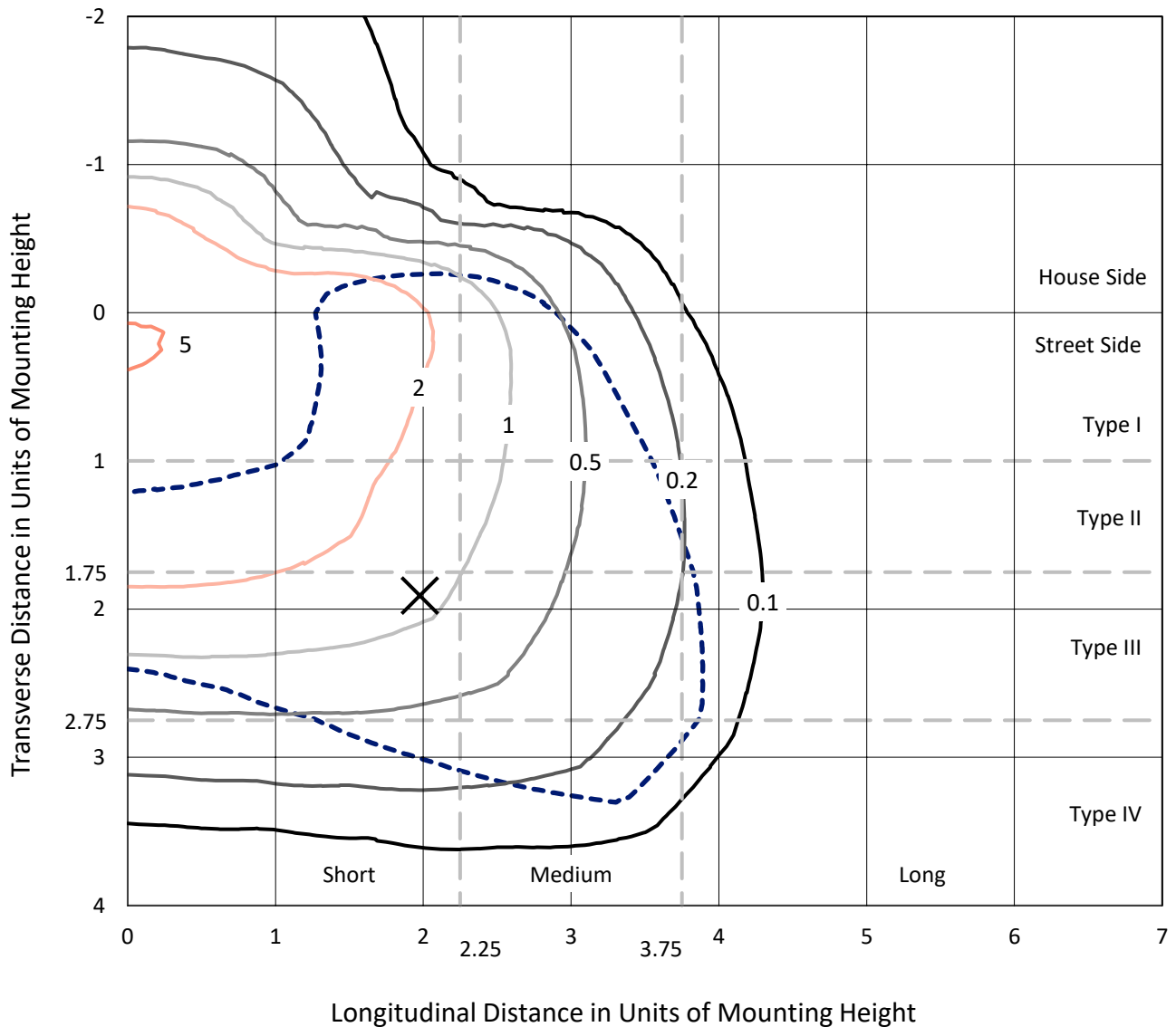
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

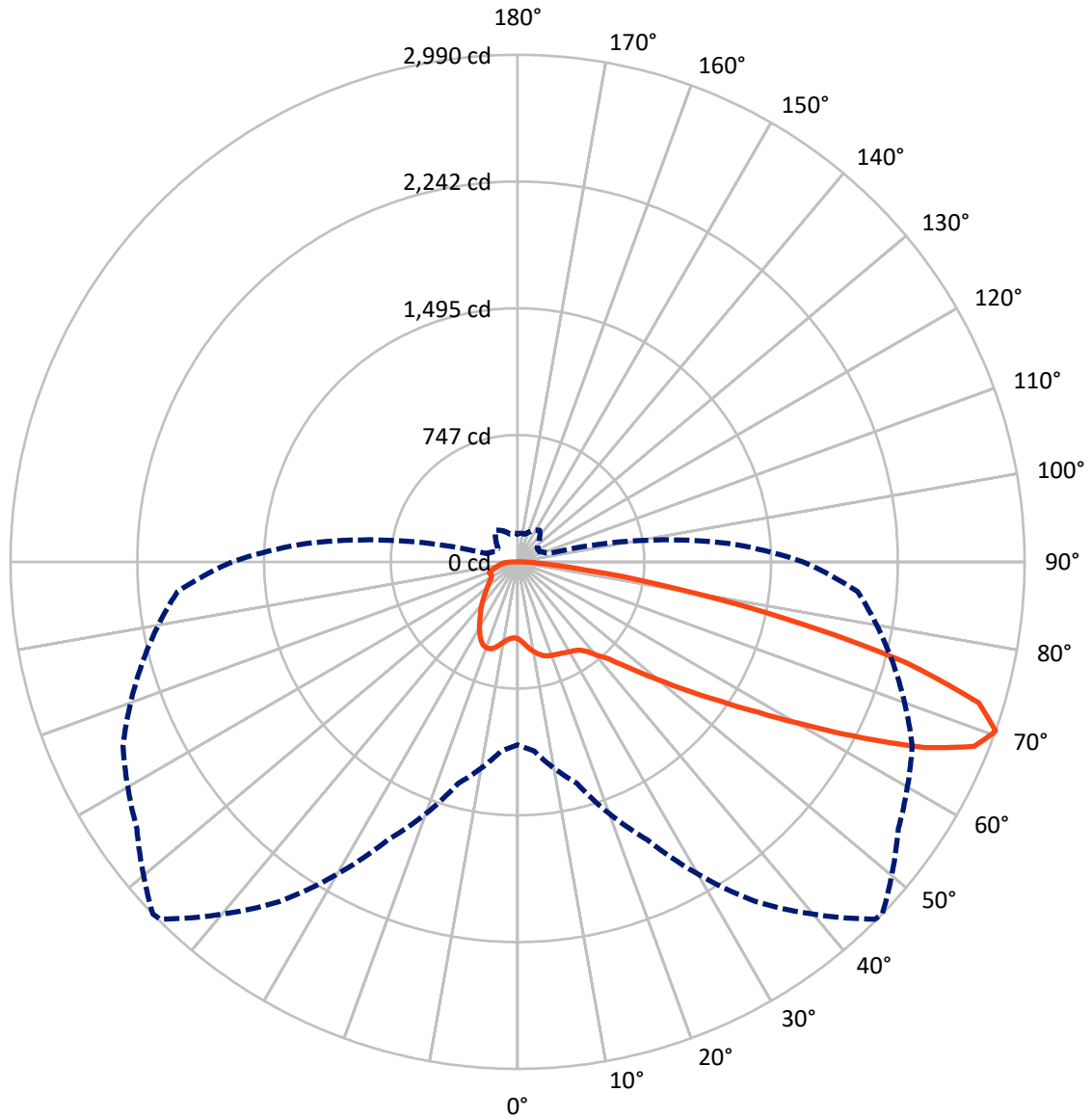
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1021.1	0.0	1021.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3433.9	0.0	3433.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4455.0	0.0	4455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.3	1.0
10°-20°	154.2	3.5
20°-30°	257.0	5.8
30°-40°	364.8	8.2
40°-50°	536.5	12.0
50°-60°	908.6	20.4
60°-70°	1289.8	29.0
70°-80°	783.5	17.6
80°-90°	114.4	2.6
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°	4455.0	100.0
0°-180°	4455.0	100.0

**Coefficient of Utilization**

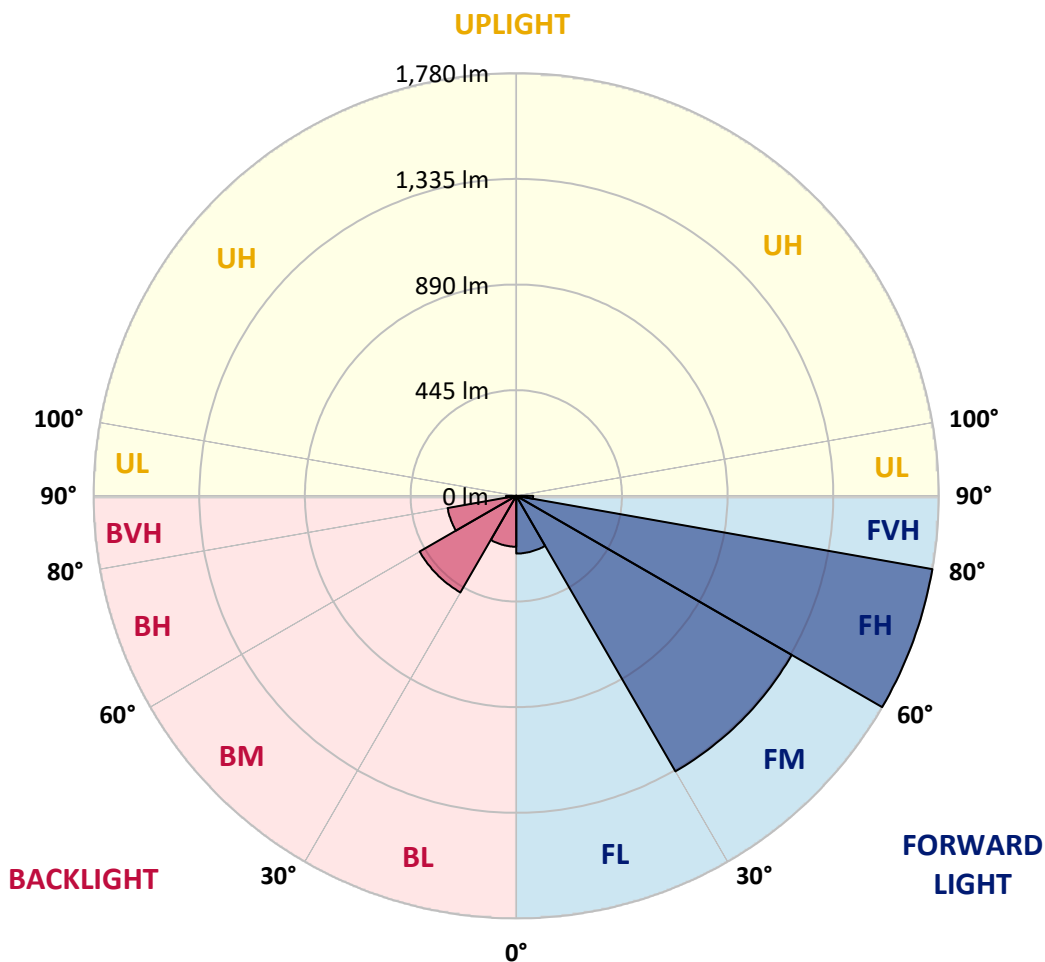


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.1	5.5			
FM (30°-60°)	1339.9	30.1			
FH (60°-80°)	1779.7	39.9			G1/1800
FVH (80°-90°)	71.2	1.6			G1/100
BL (0°-30°)	214.4	4.8	B1/500		
BM (30°-60°)	470.0	10.6	B1/1000		
BH (60°-80°)	293.6	6.6	B1/500		G1/500
BVH (80°-90°)	43.1	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9
2.5°	476.6	476.9	477.5	476.0	471.7	470.5	470.0	465.6	462.7	458.5	454.8
5°	514.7	515.0	514.1	509.8	500.4	493.4	492.8	482.7	473.5	463.8	456.5
7.5°	554.5	555.0	552.1	544.0	530.7	518.5	517.8	504.0	490.2	475.4	464.4
10°	589.7	587.9	583.2	571.9	556.2	541.2	540.6	526.3	510.3	492.5	477.8
12.5°	613.2	611.7	605.6	591.9	574.6	560.9	559.7	546.4	530.9	511.4	493.8
15°	626.2	627.2	619.0	603.4	586.7	575.1	574.0	564.6	550.7	531.0	510.9
17.5°	627.8	628.8	620.8	605.4	591.7	583.8	583.3	577.1	567.0	548.1	527.1
20°	618.1	618.7	612.1	599.5	590.5	588.0	587.9	585.1	577.7	560.9	540.5
22.5°	603.9	604.4	599.6	590.5	587.4	591.2	592.3	591.2	585.9	570.2	551.0
25°	600.4	600.1	595.2	585.9	588.5	596.6	598.0	598.4	594.8	581.0	564.4
27.5°	617.3	616.2	606.9	592.0	593.7	603.4	605.3	609.7	607.4	595.4	579.7
30°	666.3	664.4	645.4	615.2	606.9	612.0	614.3	621.3	621.7	611.7	599.9
32.5°	748.9	746.6	712.5	658.5	629.4	620.7	622.8	633.3	639.0	631.2	618.5
35°	853.3	850.7	805.9	732.1	666.9	637.3	638.8	647.2	658.5	647.5	630.7
37.5°	962.2	955.9	912.8	818.7	726.5	672.8	672.8	673.9	679.2	656.3	645.1
40°	1070.4	1064.2	1025.1	920.6	803.6	728.8	725.3	701.6	697.4	677.7	673.9
42.5°	1171.1	1169.2	1146.2	1035.7	894.2	783.8	778.9	738.8	739.7	727.5	727.7
45°	1278.1	1278.1	1259.3	1151.8	999.7	872.2	867.4	808.3	817.5	811.9	825.4
47.5°	1365.4	1368.2	1365.6	1272.9	1122.4	984.6	975.8	904.7	930.3	949.7	989.2
50°	1454.6	1458.9	1459.4	1405.7	1270.8	1118.2	1108.1	1032.6	1089.8	1145.3	1222.9
52.5°	1584.1	1593.7	1555.4	1538.2	1452.5	1276.7	1266.8	1197.1	1292.6	1370.5	1504.2
55°	1704.1	1695.7	1668.4	1679.1	1647.0	1457.2	1449.8	1388.6	1518.5	1619.7	1793.4
57.5°	1769.0	1768.4	1795.8	1841.6	1856.8	1679.8	1673.6	1614.1	1773.3	1849.4	2064.9
60°	1845.2	1846.3	1914.3	2018.1	2080.9	1957.0	1954.2	1909.1	2020.7	2063.7	2277.9
62.5°	1855.9	1875.1	1992.2	2170.9	2290.7	2280.8	2286.9	2174.9	2242.1	2234.8	2436.9
65°	1733.2	1758.5	1970.4	2217.1	2499.3	2635.0	2640.6	2442.1	2416.7	2381.0	2493.8
67.5°	1481.6	1519.1	1749.3	2116.6	2568.1	2896.8	2904.7	2649.3	2561.5	2430.5	2356.9
70°	1078.2	1119.8	1351.6	1807.7	2445.5	2980.5	2989.5	2740.9	2567.0	2289.5	2012.0
72.5°	651.3	683.9	875.0	1330.8	2064.0	2828.0	2844.0	2624.8	2343.6	1939.3	1485.7
75°	286.0	307.4	423.1	766.9	1477.7	2339.8	2359.8	2246.7	1904.2	1409.4	878.2
77.5°	121.8	127.9	173.5	333.1	835.3	1598.9	1626.3	1641.6	1292.0	766.9	371.1
80°	75.9	78.4	98.2	150.8	390.9	898.0	927.6	965.8	641.6	281.9	129.6
82.5°	46.2	48.9	65.3	91.2	203.5	407.1	421.3	448.2	249.0	121.8	67.1
85°	27.7	29.7	39.9	57.6	115.9	160.1	159.9	176.9	117.2	78.4	35.4
87.5°	13.3	14.8	21.3	29.9	58.4	60.1	56.3	63.7	71.2	51.4	17.8
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°	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9	453.9
2.5°	453.6	453.0	451.0	449.5	449.2	448.2	447.5	447.9	448.5	448.7	448.7
5°	453.4	451.7	449.2	448.1	449.5	451.3	453.6	456.6	458.5	459.8	460.7
7.5°	460.7	457.5	454.6	454.0	456.8	461.7	466.8	473.2	477.7	480.7	481.3
10°	472.9	469.0	466.1	466.7	471.6	478.6	485.9	494.1	500.8	505.0	505.3
12.5°	487.0	483.1	480.4	483.0	491.1	499.6	507.2	514.4	520.5	524.6	524.6
15°	503.1	500.4	497.2	503.1	514.1	521.7	524.9	528.4	531.8	534.8	534.2
17.5°	518.7	516.1	514.4	521.4	532.9	536.4	534.2	531.6	531.6	533.3	533.6
20°	532.1	529.8	530.9	537.7	543.7	540.0	532.1	523.9	520.5	521.4	522.3
22.5°	543.8	542.8	546.0	549.2	544.9	532.1	517.5	506.3	502.2	501.9	502.2
25°	557.6	557.4	561.4	555.6	536.7	513.0	493.4	482.5	480.3	482.1	485.1
27.5°	574.6	576.3	578.3	557.1	519.9	484.2	464.2	456.8	459.1	463.5	466.4
30°	596.4	601.0	596.7	553.3	495.8	451.3	432.2	430.1	436.3	442.6	445.6
32.5°	617.6	624.8	614.4	543.4	464.7	416.4	401.6	401.0	408.6	414.7	419.0
35°	634.7	648.9	627.7	523.7	428.7	384.2	373.4	369.3	372.0	379.2	384.1
37.5°	657.0	680.6	636.8	493.7	389.7	357.7	345.0	335.6	333.1	336.0	338.5
40°	697.7	728.9	641.1	451.7	351.6	331.1	318.3	304.5	294.9	287.8	288.0
42.5°	764.1	791.9	638.4	400.8	316.4	305.2	290.7	274.7	259.2	243.3	242.1
45°	872.1	885.5	630.1	346.8	285.4	278.1	264.5	248.5	227.8	209.8	208.1
47.5°	1044.8	1015.1	617.3	299.7	258.1	255.1	242.6	224.1	202.2	187.7	186.5
50°	1280.4	1202.2	611.1	262.2	234.0	234.9	224.7	205.2	184.5	173.8	172.6
52.5°	1562.1	1420.0	623.1	233.3	214.7	217.9	210.2	191.9	174.6	166.2	165.0
55°	1854.4	1645.7	636.1	212.2	196.4	202.6	200.0	184.9	169.2	161.5	160.4
57.5°	2104.6	1814.1	610.2	195.2	180.1	189.8	192.1	180.5	166.5	159.5	158.3
60°	2262.1	1882.0	542.2	179.1	167.1	179.6	187.5	179.3	167.6	166.9	166.0
62.5°	2336.8	1876.0	440.2	166.5	159.0	175.2	190.9	186.2	179.8	185.2	185.7
65°	2303.2	1786.4	327.8	158.1	153.2	176.9	200.9	199.1	183.3	188.7	189.5
67.5°	2082.5	1572.5	242.7	150.8	146.8	181.6	219.2	203.4	176.4	180.4	177.9
70°	1683.2	1246.7	187.2	142.6	140.3	181.0	227.5	200.8	168.9	169.8	163.3
72.5°	1160.7	850.1	152.3	134.9	130.8	165.0	221.7	194.4	162.7	155.7	147.0
75°	631.2	456.3	129.4	127.0	114.2	144.8	211.0	189.8	157.0	147.7	142.9
77.5°	248.4	189.4	112.4	116.2	99.9	127.9	199.1	181.1	149.3	137.1	134.6
80°	101.4	96.7	93.2	100.5	85.8	111.9	184.8	170.9	140.0	127.2	122.3
82.5°	57.5	60.1	72.4	79.3	69.7	103.1	177.9	162.7	128.8	113.9	108.1
85°	29.4	35.2	50.5	56.9	51.2	87.7	163.9	142.4	103.4	87.2	87.7
87.5°	14.2	19.7	31.9	35.7	33.2	63.4	122.4	103.2	80.5	63.7	61.7
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)