

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: P386208

Luminaire Tested: GAW-SA1D-750-U-T4W-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386208  
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-SA1D-750-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6005 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

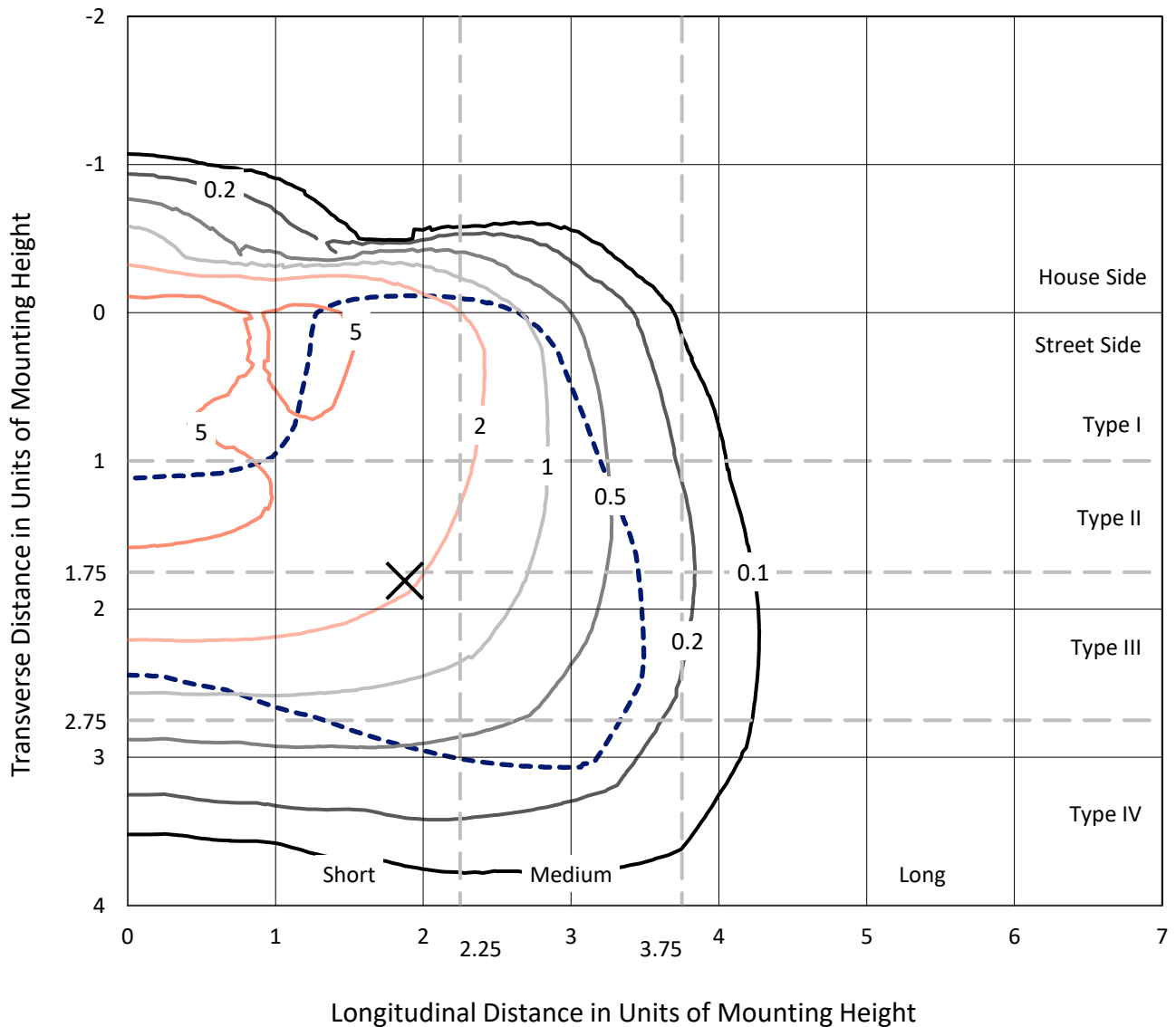
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

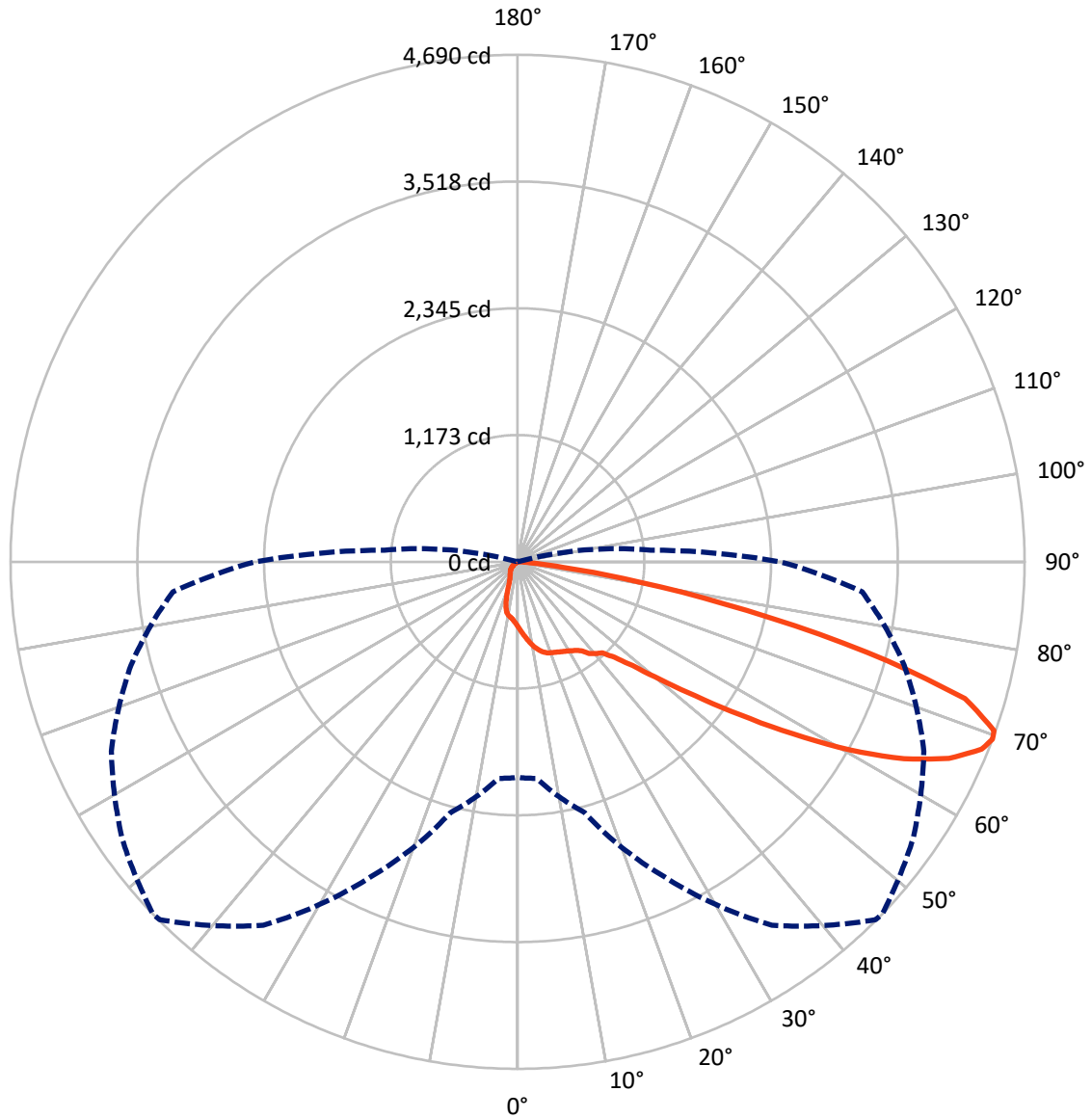
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 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	616.3	0.0	616.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	5388.7	0.0	5388.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	6005.0	0.0	6005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	1.0
10°-20°	181.7	3.0
20°-30°	285.7	4.8
30°-40°	409.7	6.8
40°-50°	708.2	11.8
50°-60°	1399.1	23.3
60°-70°	1955.3	32.6
70°-80°	944.6	15.7
80°-90°	60.7	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°	6005.0	100.0
0°-180°	6005.0	100.0

**Coefficient of Utilization**



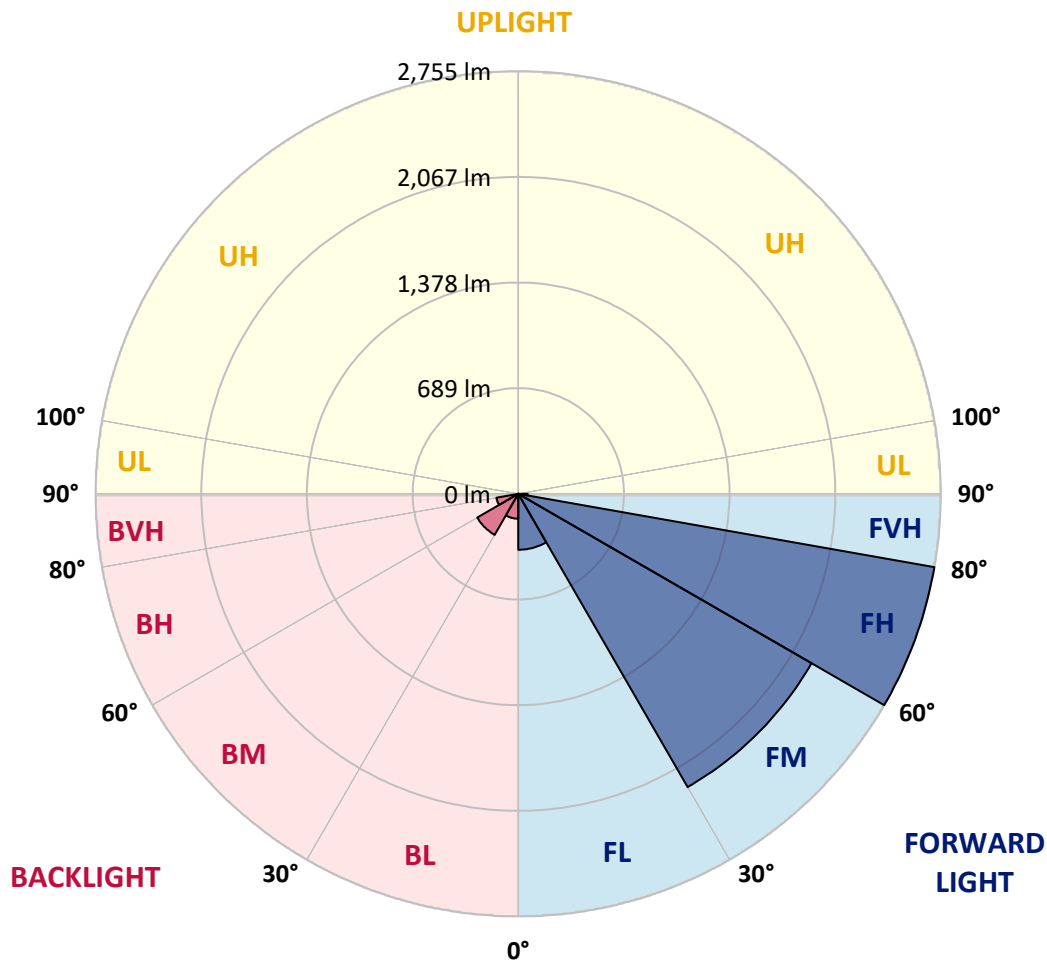
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.9	6.1			
FM (30°-60°)	2208.2	36.8			
FH (60°-80°)	2755.5	45.9			G2/5000
FVH (80°-90°)	60.2	1.0			G1/100
BL (0°-30°)	162.4	2.7	B1/500		
BM (30°-60°)	308.8	5.1	B1/1000		
BH (60°-80°)	144.5	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	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°	45°	46°	55°	65°	75°	85°
0°	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7
2.5°	668.4	667.6	663.6	661.9	652.4	646.7	644.5	637.4	627.3	617.2	605.9
5°	744.4	744.1	736.8	729.8	711.8	694.9	691.8	675.4	652.6	631.2	609.8
7.5°	822.1	818.5	811.2	797.6	771.5	744.4	741.9	718.8	686.4	655.5	624.8
10°	888.0	885.8	876.2	855.6	825.0	794.3	791.2	762.7	726.1	688.1	649.0
12.5°	939.3	937.6	924.9	899.3	866.6	834.8	830.6	805.2	766.1	723.6	677.4
15°	970.5	969.7	954.2	926.9	894.8	867.2	863.5	841.3	805.0	760.5	708.4
17.5°	977.8	978.1	962.1	934.5	908.0	888.3	885.5	868.6	838.2	794.0	739.4
20°	961.5	964.9	950.5	926.6	910.3	899.8	897.6	887.5	861.8	820.2	764.1
22.5°	938.4	940.1	930.3	914.2	907.4	909.4	908.3	902.7	881.0	842.7	788.6
25°	924.3	924.3	918.4	904.9	909.4	921.5	921.8	920.7	903.5	870.3	818.5
27.5°	923.8	922.1	915.3	905.2	917.6	936.2	937.3	944.9	934.2	903.8	855.6
30°	946.3	944.3	930.0	916.7	932.5	952.5	955.3	971.9	966.6	940.1	897.0
32.5°	998.9	991.9	960.1	938.4	950.2	974.2	977.8	1004.3	1012.7	984.9	937.0
35°	1071.0	1048.8	1002.9	979.5	980.6	1005.7	1009.1	1047.9	1073.0	1026.0	968.0
37.5°	1170.4	1159.4	1084.8	1022.3	1027.4	1065.4	1075.3	1117.5	1110.4	1048.5	1003.2
40°	1388.3	1371.2	1291.8	1142.3	1072.2	1113.8	1116.9	1139.4	1140.0	1099.5	1076.4
42.5°	1685.1	1678.1	1594.4	1359.9	1160.3	1146.2	1151.8	1189.8	1232.4	1207.0	1205.9
45°	2013.7	2010.0	1921.3	1648.8	1338.5	1252.3	1259.4	1310.3	1391.7	1397.3	1433.1
47.5°	2278.0	2276.4	2225.4	1971.2	1611.3	1432.3	1434.5	1488.6	1631.6	1702.3	1759.4
50°	2519.1	2527.2	2487.0	2320.0	1983.0	1714.1	1708.7	1744.8	1974.5	2090.2	2161.2
52.5°	2854.1	2865.6	2752.7	2645.5	2372.9	2063.8	2059.6	2097.3	2386.7	2473.4	2486.1
55°	3150.0	3130.3	3041.1	3010.1	2848.5	2495.7	2494.6	2527.8	2785.4	2822.3	2845.7
57.5°	3280.7	3273.1	3316.1	3387.1	3346.5	3006.1	3003.6	2978.3	3142.1	3146.1	3217.9
60°	3363.1	3372.4	3504.5	3723.3	3824.3	3555.5	3539.1	3384.5	3482.8	3474.1	3550.9
62.5°	3301.2	3319.5	3557.1	3921.8	4181.9	4034.9	4011.8	3756.8	3773.9	3743.8	3815.3
65°	2972.4	3000.8	3390.2	3884.3	4359.3	4409.7	4386.3	4085.3	4005.1	3955.5	3915.8
67.5°	2413.5	2430.4	2836.9	3558.5	4279.3	4633.2	4628.4	4373.4	4179.7	3919.8	3611.8
69°	1994.5	2011.1	2402.5	3215.6	4103.4	4681.1	4690.4	4465.7	4146.4	3702.4	3200.1
70°	1689.3	1707.1	2071.7	2921.7	3899.2	4658.9	4675.5	4457.0	4051.3	3450.7	2838.9
72.5°	886.0	901.3	1275.4	2012.8	3178.7	4277.9	4328.3	4080.3	3434.1	2506.1	1678.6
75°	278.5	287.2	498.1	1052.2	2176.4	3326.3	3337.8	3200.7	2438.5	1378.5	699.1
77.5°	106.1	103.6	165.8	387.7	1100.3	2094.5	2165.1	2000.2	1279.7	487.4	161.3
80°	57.2	57.4	86.2	160.5	470.8	1076.4	1136.1	969.4	454.7	152.0	37.2
82.5°	24.8	25.9	48.4	85.0	216.2	397.0	426.8	355.3	173.7	102.2	13.8
85°	5.3	5.9	23.4	46.2	88.1	111.5	116.8	115.2	110.7	79.4	5.3
87.5°	0.0	0.0	10.4	16.6	22.2	25.3	22.2	29.0	61.1	53.5	2.8
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°	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7	601.7
2.5°	602.2	597.2	588.4	578.9	572.1	565.1	559.4	556.9	554.1	552.1	554.7
5°	601.1	591.3	574.4	558.0	546.2	536.6	528.8	525.7	522.6	520.3	520.0
7.5°	611.0	597.2	571.3	547.3	529.0	516.1	505.4	500.9	497.2	495.5	494.1
10°	629.8	612.1	577.5	546.2	522.6	500.6	477.5	459.8	448.2	442.9	440.9
12.5°	654.3	632.1	589.3	552.1	517.8	475.5	426.6	384.3	357.0	348.0	342.6
15°	683.0	655.5	604.8	559.7	500.3	423.2	340.1	284.9	259.6	254.5	248.9
17.5°	710.6	680.2	623.4	561.1	462.0	338.1	249.2	211.7	201.9	205.3	206.1
20°	734.9	704.7	641.7	548.7	392.5	253.7	192.9	183.6	187.2	193.7	194.8
22.5°	759.3	728.4	658.6	516.1	303.5	192.6	173.7	176.0	179.6	186.1	187.2
25°	789.2	757.1	674.3	456.1	227.8	163.9	165.0	168.4	172.0	177.9	178.5
27.5°	823.5	793.4	684.7	378.1	168.9	150.6	154.3	159.4	163.0	168.7	169.8
30°	869.2	841.3	688.1	297.3	141.6	138.8	140.5	146.7	152.0	157.1	158.0
32.5°	911.9	888.6	676.9	224.4	131.2	127.8	127.8	131.5	137.7	142.5	143.6
35°	951.4	936.2	640.8	164.1	123.3	117.7	114.9	114.9	118.8	122.8	123.9
37.5°	1003.5	1002.9	582.5	130.9	115.7	109.2	103.3	98.8	97.4	98.3	98.8
40°	1092.7	1093.6	506.5	117.4	109.2	100.5	91.5	83.3	75.7	73.2	72.9
42.5°	1232.1	1219.4	426.8	110.9	103.6	91.5	78.0	67.0	55.2	51.5	51.2
45°	1453.4	1378.2	342.4	105.0	97.7	81.4	64.5	49.6	40.0	37.2	37.2
47.5°	1775.8	1586.8	265.2	98.5	89.8	69.8	48.7	35.8	29.3	27.9	28.2
50°	2109.1	1791.2	203.3	90.4	80.2	57.7	36.0	25.9	22.2	22.2	22.5
52.5°	2404.7	1941.0	158.5	81.7	68.4	45.3	27.3	20.3	18.6	18.3	18.6
55°	2681.5	2037.6	121.3	71.5	54.3	33.8	20.8	16.6	15.5	14.9	14.6
57.5°	2948.4	2085.5	90.9	57.7	39.4	24.5	16.6	14.1	13.0	12.1	11.8
60°	3126.1	2046.6	62.5	42.5	27.3	17.7	13.8	12.1	10.7	9.9	9.6
62.5°	3226.3	1940.5	40.3	30.7	19.4	13.2	11.0	10.1	8.2	7.3	7.3
65°	3185.8	1765.3	28.2	22.0	14.1	9.9	8.2	8.2	5.9	4.8	4.5
67.5°	2823.1	1491.4	21.4	16.3	10.1	7.3	6.2	7.0	3.7	2.3	2.3
69°	2429.0	1236.0	18.3	13.5	8.4	5.9	5.3	6.5	2.5	1.7	1.4
70°	2111.1	1066.2	16.6	11.8	7.0	5.1	4.8	6.2	2.5	1.4	1.1
72.5°	1263.0	594.6	12.7	8.4	4.5	3.9	3.9	7.0	2.5	1.4	1.1
75°	510.5	209.5	9.3	5.9	3.4	3.4	4.8	9.0	2.3	1.1	0.8
77.5°	115.7	45.9	5.3	3.7	2.3	3.4	5.6	7.0	1.4	0.6	0.0
80°	28.2	11.3	3.4	2.3	1.4	2.5	4.2	3.9	0.3	0.0	0.0
82.5°	9.3	3.9	1.4	1.1	0.3	0.8	2.0	1.1	0.0	0.0	0.0
85°	3.9	2.3	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.5	0.8	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)