

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: P386122

Luminaire Tested: GAW-SA1D-727-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-727-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4922 lumens
Efficiency: N/A
Efficacy: 73.5 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

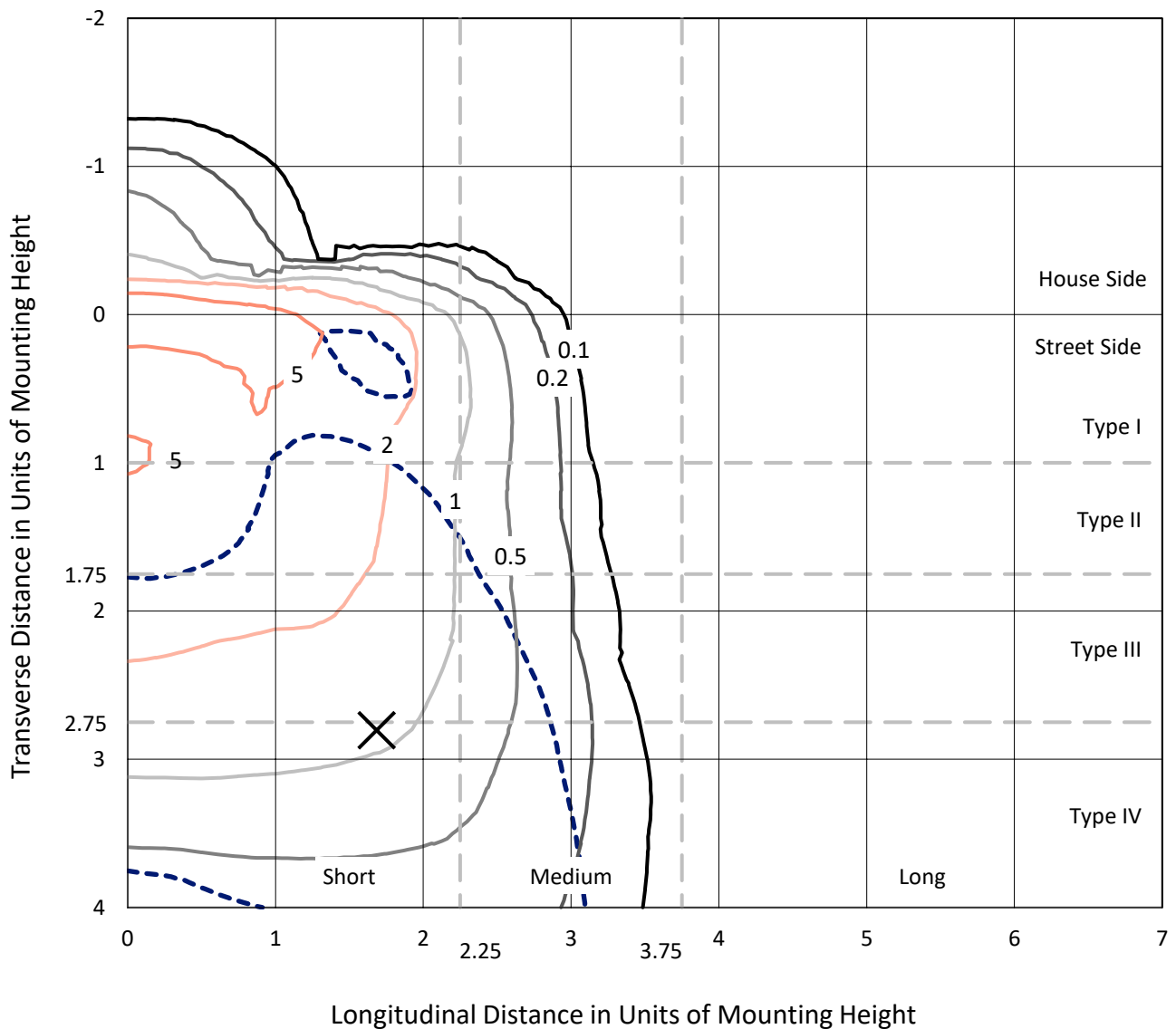
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

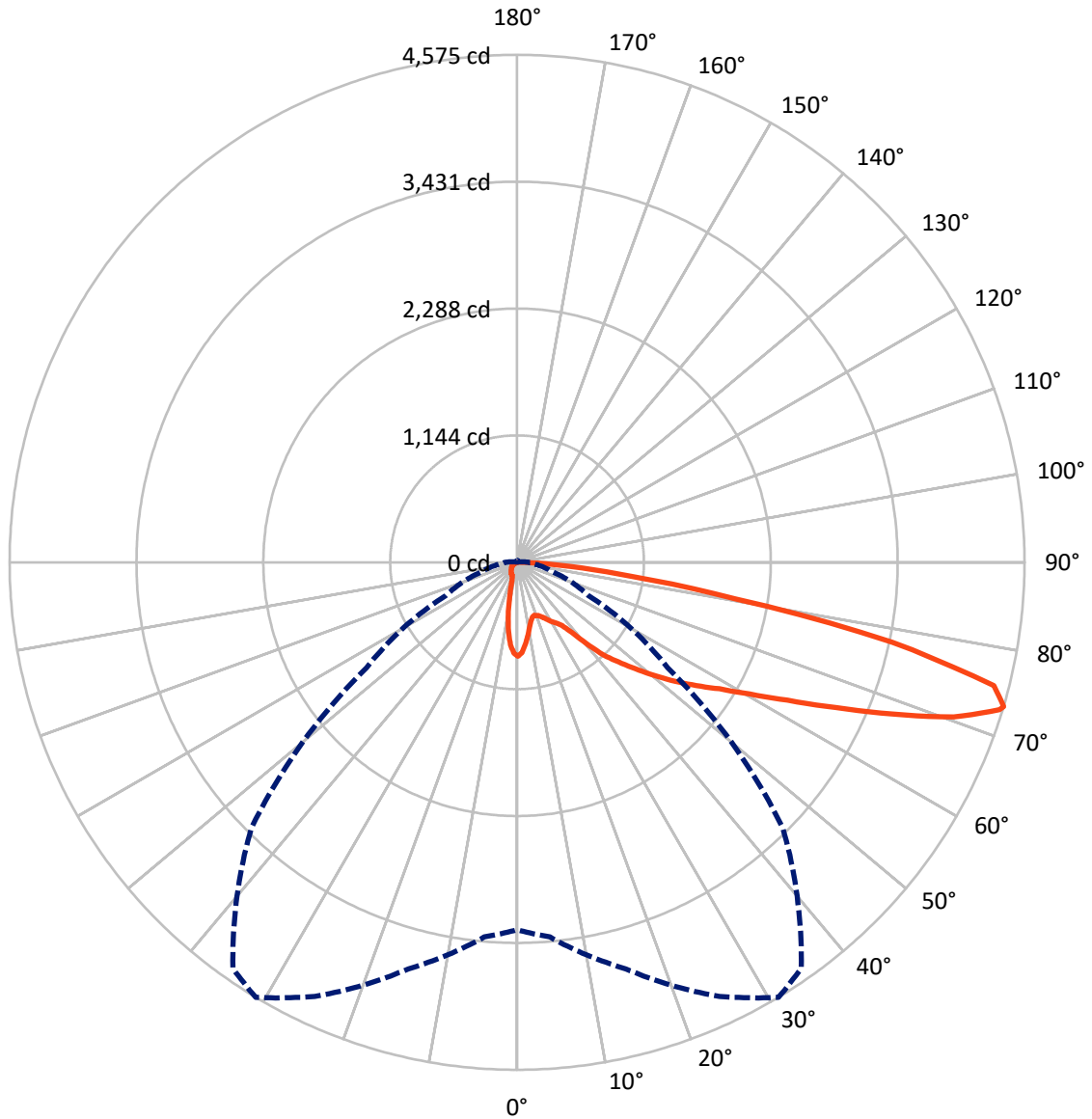
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.7	0.0	448.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4473.3	0.0	4473.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	4922.0	0.0	4922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.4
10°-20°	152.5	3.1
20°-30°	228.4	4.6
30°-40°	363.4	7.4
40°-50°	649.0	13.2
50°-60°	1007.0	20.5
60°-70°	1338.7	27.2
70°-80°	1007.0	20.5
80°-90°	105.8	2.1
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°	4922.0	100.0
0°-180°	4922.0	100.0

Coefficient of Utilization



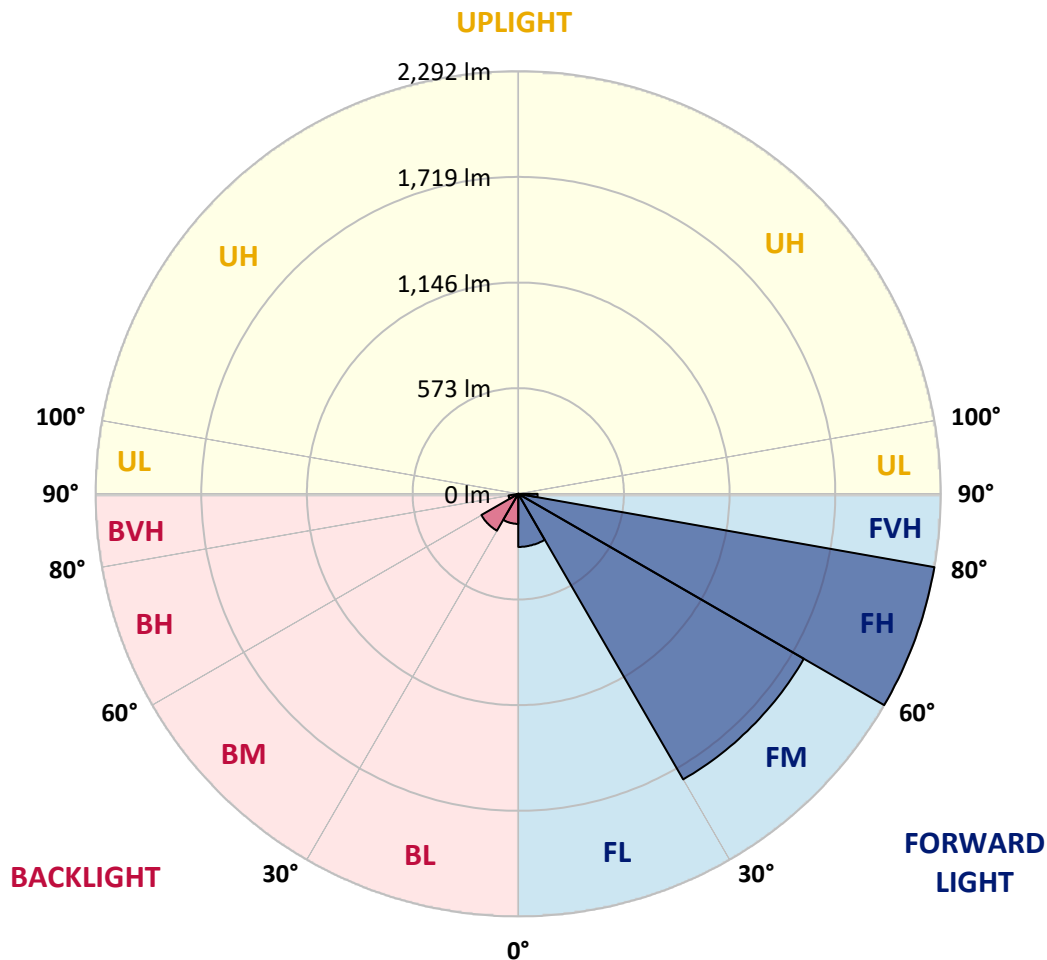
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.9	5.9			
FM (30°-60°)	1788.5	36.3			
FH (60°-80°)	2292.0	46.6			G2/5000
FVH (80°-90°)	104.9	2.1			G2/225
BL (0°-30°)	163.2	3.3	B1/500		
BM (30°-60°)	230.9	4.7	B1/1000		
BH (60°-80°)	53.7	1.1	B0/110		G0/110
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°	31°	35°	45°	55°	65°	75°	85°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	802.5	805.9	809.5	810.2	816.3	816.5	825.2	831.7	838.2	844.4	846.6
5°	720.2	725.7	732.2	738.7	751.5	756.5	777.7	799.4	820.1	839.9	849.5
7.5°	632.2	638.5	647.7	663.8	678.0	687.9	721.4	759.9	798.4	834.8	855.8
10°	552.0	557.8	567.5	584.6	606.5	620.0	665.0	718.5	775.1	830.2	865.1
12.5°	501.0	504.1	509.4	527.7	547.5	562.6	615.6	681.9	755.8	830.0	880.3
15°	491.6	492.5	488.2	496.4	511.8	526.5	580.2	652.2	741.1	833.8	900.1
17.5°	506.5	506.0	491.6	490.6	502.9	514.9	562.9	631.8	730.7	842.7	925.6
20°	529.2	527.5	502.4	497.8	510.8	522.2	561.7	624.1	726.9	857.7	956.7
22.5°	559.3	556.4	517.1	512.3	526.3	538.1	576.6	631.5	730.3	877.7	992.8
25°	596.6	592.3	542.4	537.1	551.3	563.1	603.3	653.0	740.4	902.0	1038.6
27.5°	638.7	632.5	582.9	569.1	585.3	597.6	639.0	685.7	756.3	927.8	1094.7
30°	678.5	670.3	625.5	602.9	622.6	636.3	677.5	724.7	781.8	967.5	1171.5
32.5°	718.5	709.3	663.6	636.6	654.4	669.3	717.3	778.4	829.7	1028.2	1273.6
35°	810.5	800.8	744.7	700.2	699.9	708.3	772.9	851.9	893.1	1112.7	1395.5
37.5°	965.3	959.8	906.3	821.8	799.2	789.8	848.8	939.6	984.1	1229.1	1533.0
40°	1134.9	1130.1	1070.1	993.5	959.1	936.0	957.6	1061.7	1112.7	1371.2	1673.4
42.5°	1326.4	1303.5	1196.6	1173.7	1142.8	1125.3	1105.8	1212.2	1270.7	1525.8	1812.7
45°	1500.3	1461.7	1323.0	1288.3	1281.3	1285.7	1296.5	1414.5	1448.5	1709.6	1951.4
47.5°	1603.8	1573.5	1467.0	1433.8	1431.9	1460.5	1542.4	1643.1	1625.5	1869.7	2073.5
50°	1702.4	1674.9	1586.5	1594.7	1603.6	1642.6	1821.6	1878.2	1787.1	2015.0	2185.5
52.5°	1782.1	1740.2	1693.9	1739.9	1783.8	1846.6	2109.6	2089.2	1901.8	2130.6	2281.4
55°	1828.1	1809.0	1831.4	1877.7	1960.1	2062.2	2381.6	2264.7	1985.6	2236.1	2345.2
57.5°	1996.7	1959.3	2003.9	2043.9	2151.3	2294.1	2614.5	2395.5	2046.0	2301.4	2359.9
60°	2200.7	2170.6	2196.8	2263.3	2408.3	2576.2	2832.2	2502.2	2077.6	2343.3	2321.8
62.5°	2525.3	2485.6	2469.2	2543.7	2735.9	2919.1	2997.4	2576.2	2070.6	2324.7	2191.3
65°	2960.3	2919.1	2845.9	2913.4	3157.8	3287.2	3182.2	2591.8	2022.4	2174.7	1861.3
67.5°	3405.9	3376.0	3313.4	3427.1	3647.7	3689.4	3377.5	2553.8	1867.3	1763.3	1315.1
70°	3700.2	3687.5	3728.2	3979.6	4176.4	4164.4	3556.7	2349.3	1455.5	1084.3	650.5
72.5°	3488.0	3549.2	3849.8	4305.7	4546.1	4447.8	3464.7	1804.0	831.9	417.2	188.1
73°	3312.2	3390.5	3795.1	4318.0	4575.2	4467.6	3387.4	1655.9	709.1	329.2	142.6
75°	2304.2	2400.3	3141.9	4021.5	4438.9	4256.6	2823.5	1013.5	328.5	146.0	57.6
77.5°	1118.8	1189.8	1730.0	2905.7	3452.2	3325.7	1757.7	377.7	148.4	91.3	26.5
80°	417.6	464.4	751.0	1478.8	1995.0	2047.3	773.1	142.8	98.7	73.5	13.5
82.5°	109.3	121.9	277.0	659.5	1022.4	1070.1	243.7	72.0	72.3	60.5	8.2
85°	34.9	40.0	86.5	296.0	481.7	422.9	63.6	34.9	52.5	45.0	4.6
87.5°	4.3	5.5	27.5	69.6	106.2	59.0	9.9	10.4	22.4	25.0	2.6
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°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	848.8	847.6	847.8	841.5	837.4	829.3	820.8	817.0	812.9	811.2	812.9
5°	853.1	850.9	844.7	825.4	804.9	778.4	753.6	734.8	711.2	704.7	711.5
7.5°	859.8	855.5	837.2	797.9	752.4	701.8	645.0	603.6	569.6	547.7	555.6
10°	869.7	861.5	824.7	758.0	676.6	587.0	506.3	443.4	398.9	380.5	379.8
12.5°	886.3	870.9	809.3	705.9	583.8	464.4	358.6	290.5	254.3	231.0	230.5
15°	904.6	882.0	789.8	643.6	475.9	332.6	231.0	179.2	155.8	148.4	147.4
17.5°	927.0	894.8	764.5	566.7	363.0	220.4	150.8	135.8	134.9	134.2	134.2
20°	955.2	909.9	732.0	478.8	257.5	147.2	128.1	129.1	129.6	128.6	128.9
22.5°	988.0	925.4	693.2	384.4	174.1	123.1	122.6	123.8	124.3	123.8	124.0
25°	1026.0	943.2	646.0	285.4	125.7	116.8	118.0	119.7	120.9	120.9	120.9
27.5°	1073.2	964.9	589.1	199.2	108.6	110.3	113.7	116.8	118.5	119.0	119.0
30°	1134.7	991.8	521.0	136.6	98.7	101.6	107.9	113.9	117.1	117.5	117.8
32.5°	1212.2	1022.2	442.0	100.9	90.3	92.5	99.2	109.3	115.4	116.3	116.3
35°	1301.1	1057.3	356.9	87.9	84.3	85.0	90.3	101.9	112.5	115.1	115.4
37.5°	1398.4	1092.0	271.4	82.1	79.2	79.2	83.1	93.0	105.5	113.7	114.6
40°	1489.2	1113.0	190.3	77.6	74.7	74.7	78.0	85.3	97.1	109.3	112.0
42.5°	1573.0	1120.2	132.5	73.2	70.3	71.1	73.9	79.7	88.6	100.9	103.3
45°	1659.2	1119.0	96.6	68.2	66.0	68.2	70.3	74.7	81.2	88.2	88.6
47.5°	1724.3	1108.9	76.6	63.3	61.9	64.8	66.7	69.6	73.2	72.7	72.7
50°	1785.2	1084.3	61.7	56.8	57.8	61.2	62.1	63.1	63.3	58.8	58.3
52.5°	1831.4	1046.0	49.4	49.9	53.7	57.1	56.1	54.7	52.3	46.7	45.8
55°	1846.9	972.3	38.8	41.2	47.7	52.0	48.4	45.3	40.7	36.1	35.2
57.5°	1818.9	877.2	31.6	32.0	40.2	43.8	39.7	36.1	31.1	27.2	26.5
60°	1759.7	771.5	26.0	24.1	31.1	34.2	31.6	27.9	23.4	20.5	20.2
62.5°	1642.1	658.7	21.4	18.8	23.6	26.3	24.6	21.9	18.1	16.1	15.9
65°	1395.0	527.0	17.3	15.2	18.3	20.5	19.0	17.1	14.2	12.8	12.5
67.5°	973.8	356.2	14.2	12.5	14.5	16.1	14.9	14.0	11.3	11.1	11.3
70°	469.7	171.7	11.8	10.1	11.3	12.5	12.0	11.3	10.8	12.5	14.5
72.5°	134.6	57.6	9.4	8.4	9.2	9.9	10.4	10.1	11.8	15.2	17.6
73°	103.6	46.5	8.9	7.9	8.7	9.6	10.1	9.9	12.0	15.4	17.6
75°	44.3	22.4	6.7	6.5	7.2	8.4	8.9	8.9	12.0	15.7	16.9
77.5°	20.0	12.0	4.3	5.1	6.3	6.7	7.5	7.5	9.6	12.0	12.0
80°	11.3	6.5	3.4	3.9	4.6	4.6	4.6	4.1	4.3	4.8	5.3
82.5°	7.2	4.3	2.6	3.1	2.9	2.4	1.9	1.9	1.7	1.9	2.4
85°	4.1	2.4	2.4	1.9	1.2	1.0	1.2	1.0	0.2	0.0	0.2
87.5°	2.4	1.4	0.7	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)