

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: P386618

Luminaire Tested: GAW-SA2B-735-U-T2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7969.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

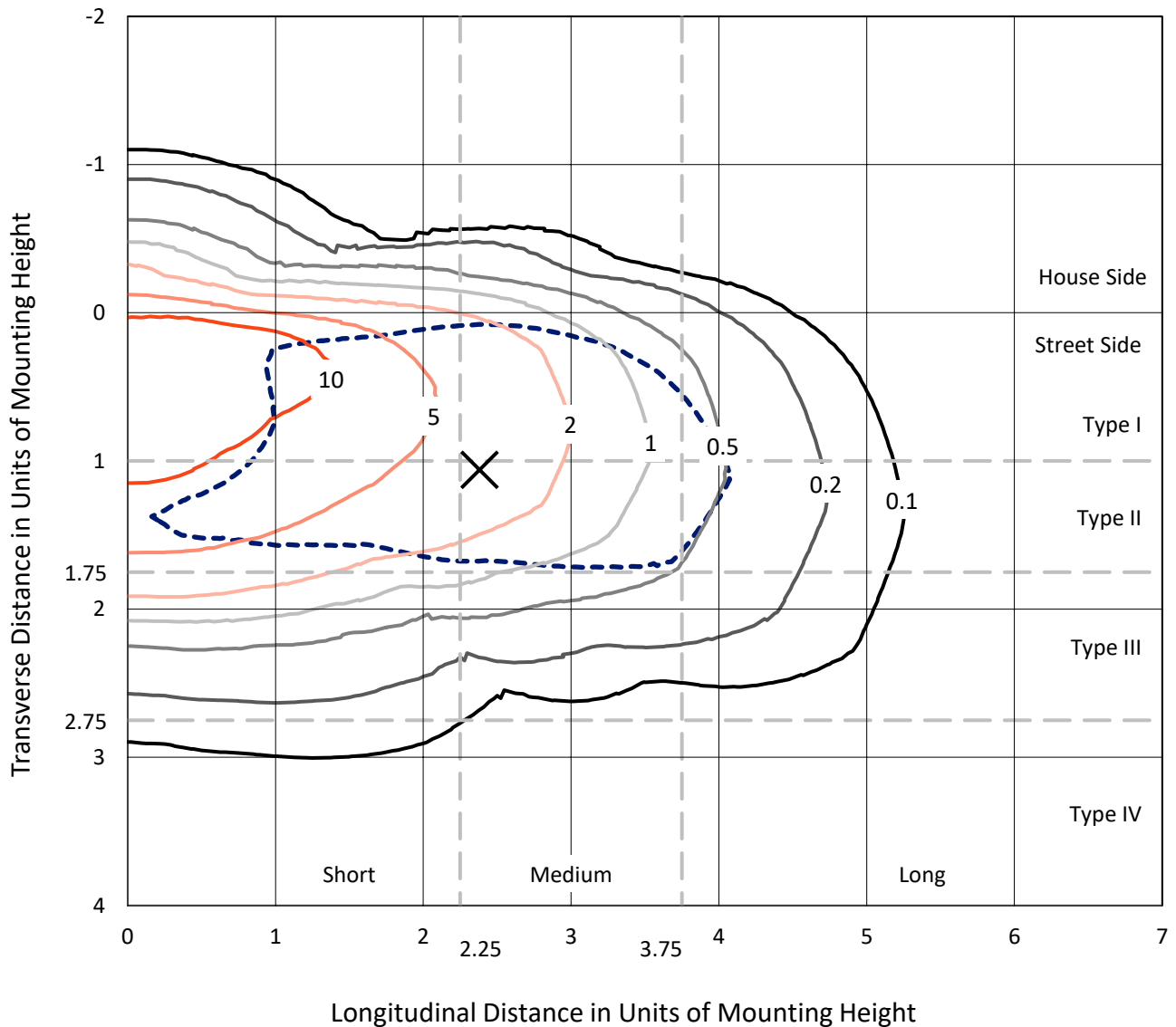
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

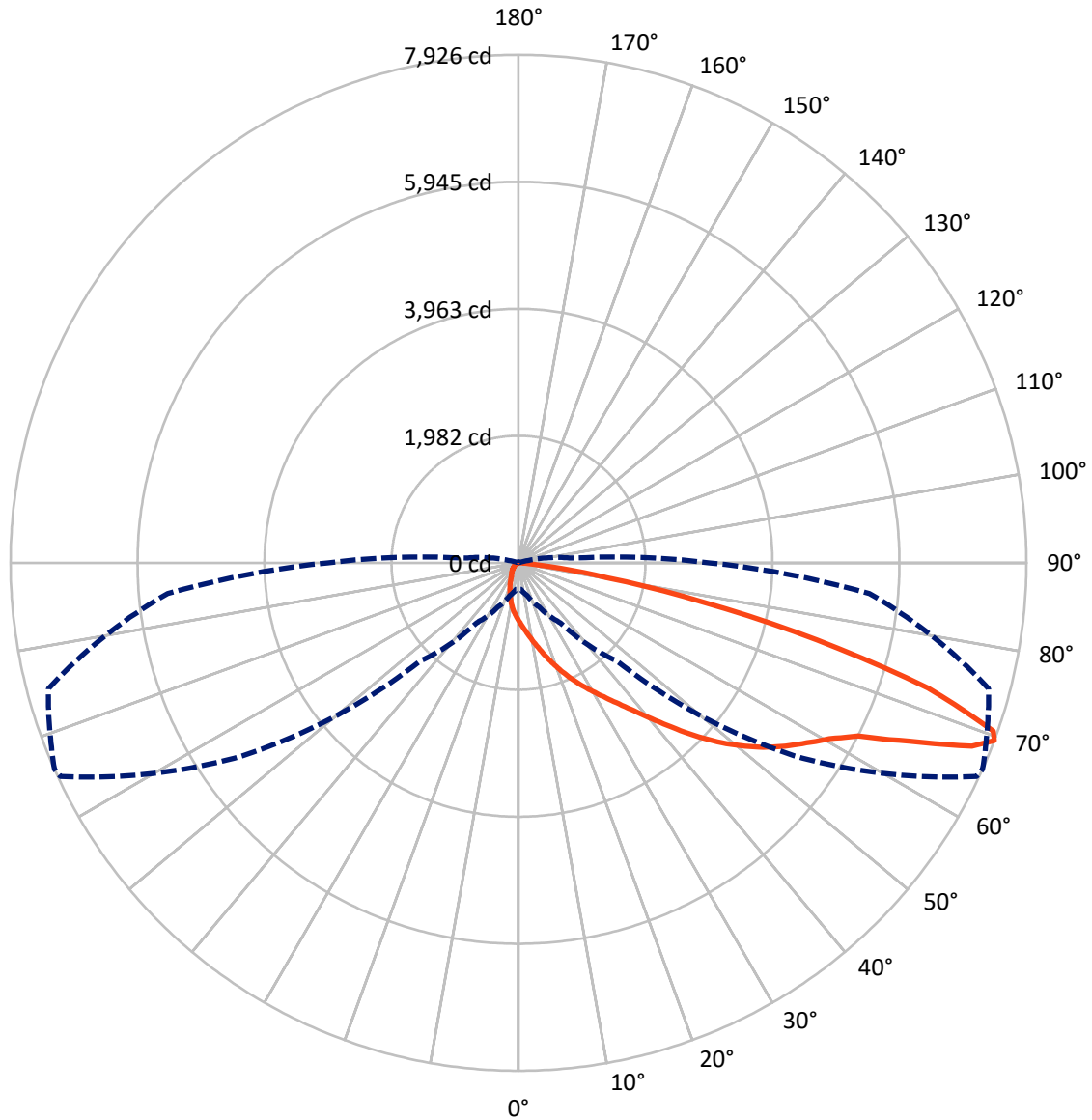
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.1	0.0	478.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7491.7	0.0	7491.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	7969.8	0.0	7969.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.1
10°-20°	260.9	3.3
20°-30°	454.4	5.7
30°-40°	797.2	10.0
40°-50°	1334.4	16.7
50°-60°	1961.4	24.6
60°-70°	2013.9	25.3
70°-80°	994.2	12.5
80°-90°	65.7	0.8
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°	7969.8	100.0
0°-180°	7969.8	100.0

Coefficient of Utilization



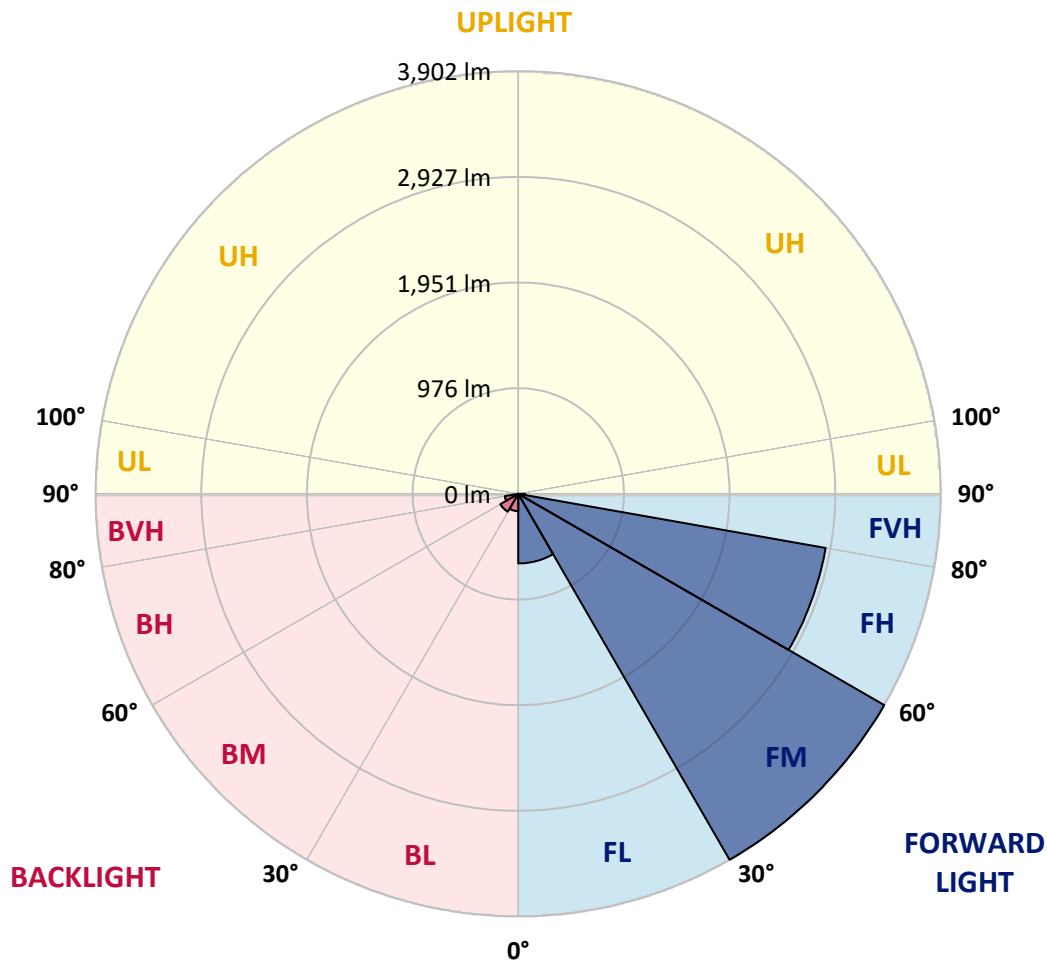
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.1	8.1			
FM (30°-60°)	3902.4	49.0			
FH (60°-80°)	2882.1	36.2			G2/5000
FVH (80°-90°)	64.1	0.8			G1/100
BL (0°-30°)	159.9	2.0	B1/500		
BM (30°-60°)	190.6	2.4	B0/220		
BH (60°-80°)	126.0	1.6	B1/500		G1/500
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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0
2.5°	1067.5	1062.9	1061.0	1052.7	1038.3	1027.3	1006.2	981.6	977.1	953.2	924.0
5°	1206.0	1202.2	1199.6	1187.9	1173.1	1145.5	1106.9	1061.0	1052.3	1006.9	948.6
7.5°	1302.6	1309.4	1309.4	1301.8	1283.3	1262.5	1215.1	1152.6	1141.6	1072.0	981.6
10°	1358.9	1367.3	1373.8	1380.2	1377.5	1369.2	1324.5	1254.1	1240.8	1148.5	1019.8
12.5°	1364.3	1372.6	1390.8	1417.6	1443.8	1462.7	1434.6	1366.5	1351.4	1237.1	1065.2
15°	1334.8	1343.4	1371.4	1423.7	1487.0	1542.2	1551.3	1491.1	1475.6	1342.7	1122.0
17.5°	1283.3	1288.9	1329.1	1401.4	1500.6	1602.0	1656.9	1624.7	1610.3	1463.5	1185.2
20°	1245.1	1249.2	1284.4	1362.0	1492.2	1639.4	1756.9	1766.6	1751.5	1592.9	1253.7
22.5°	1310.5	1318.1	1319.2	1355.9	1469.5	1658.0	1844.7	1906.3	1894.9	1730.4	1321.2
25°	1489.6	1498.2	1469.5	1446.8	1488.8	1666.4	1919.9	2049.5	2040.4	1878.3	1388.9
27.5°	1726.1	1735.2	1698.1	1630.4	1589.9	1697.8	1987.0	2194.8	2194.4	2035.0	1462.0
30°	1958.5	1967.7	1929.8	1862.1	1769.0	1786.7	2044.9	2347.0	2349.2	2196.7	1539.6
32.5°	2202.4	2213.7	2174.7	2087.7	1990.4	1940.4	2126.3	2499.9	2512.8	2384.1	1626.9
35°	2479.4	2480.9	2426.1	2334.9	2222.8	2146.0	2256.9	2671.4	2702.1	2616.1	1737.9
37.5°	2751.3	2762.2	2717.2	2573.4	2470.4	2383.3	2451.1	2885.6	2929.2	2899.6	1882.9
40°	2952.6	2975.7	2969.3	2814.0	2716.4	2654.4	2692.2	3140.4	3195.6	3229.7	2065.7
42.5°	3079.1	3096.5	3126.0	3032.6	2944.0	2954.1	2976.8	3437.1	3505.3	3606.1	2275.8
45°	3224.1	3232.4	3257.0	3215.7	3155.9	3258.9	3279.0	3771.4	3843.0	4010.6	2509.0
47.5°	3401.2	3420.9	3427.8	3389.9	3362.6	3528.4	3570.1	4075.4	4175.7	4444.1	2755.8
50°	3626.8	3632.2	3643.9	3619.3	3592.0	3760.1	3831.2	4394.5	4485.7	4879.0	2999.2
52.5°	3847.5	3866.5	3907.3	3891.8	3880.8	3957.3	4064.0	4682.2	4784.1	5241.7	3242.2
55°	3911.1	3927.4	4068.6	4165.1	4254.4	4200.3	4286.6	4940.0	5050.2	5565.7	3476.1
57.5°	3657.2	3690.0	3934.6	4185.9	4556.5	4578.1	4592.5	5204.6	5303.4	5814.1	3719.5
60°	3015.1	3021.6	3422.8	3854.0	4506.6	4907.9	5039.2	5488.9	5571.8	6045.4	4011.0
62.5°	1917.7	1983.2	2423.4	3032.2	3978.1	4860.1	5579.3	5918.9	5949.2	6322.8	4429.0
65°	913.5	955.8	1273.1	1873.4	2881.5	4249.5	5952.2	6696.8	6710.5	6872.8	4987.3
67.5°	505.8	526.2	677.2	1008.4	1684.5	3005.2	5801.6	7618.2	7631.1	7434.6	5477.1
69°	395.6	413.0	531.9	760.2	1142.0	2159.9	5250.0	7888.1	7926.3	7595.5	5494.6
70°	335.7	352.8	458.0	642.0	918.4	1669.0	4673.1	7821.1	7861.6	7580.3	5364.7
72.5°	205.5	215.4	305.1	451.9	615.5	839.6	2881.9	6614.3	6682.8	6953.5	4610.6
75°	138.6	143.8	190.8	311.9	440.2	432.3	1497.1	4662.1	4810.5	5409.0	3405.4
77.5°	99.2	104.1	127.9	201.8	308.5	285.4	678.0	2897.4	2929.2	3244.1	1857.2
80°	56.4	61.0	90.5	120.0	209.3	190.4	269.5	1383.9	1399.9	1391.1	620.1
82.5°	29.5	33.3	49.6	79.1	134.4	124.6	112.1	463.3	465.6	387.2	135.9
85°	5.6	6.9	24.6	54.1	69.2	54.1	45.8	108.7	110.9	98.1	33.7
87.5°	0.0	0.4	9.9	12.1	13.6	14.0	14.7	21.2	22.7	30.6	9.1
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°	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0	907.0
2.5°	911.1	897.5	871.4	841.1	817.6	794.5	776.4	757.4	750.7	747.3	746.9
5°	920.2	891.5	836.2	779.4	732.8	689.0	657.6	627.6	613.6	607.2	604.5
7.5°	935.4	889.2	800.3	713.6	646.6	591.6	548.1	515.5	499.3	492.5	489.8
10°	953.2	886.1	758.2	643.9	558.4	501.5	458.4	426.2	408.4	400.8	397.1
12.5°	974.0	880.9	709.8	573.5	483.0	426.2	374.0	334.2	313.9	305.1	301.0
15°	999.7	875.6	659.1	507.3	416.8	347.5	290.4	263.5	259.3	257.8	258.1
17.5°	1025.1	867.2	603.7	441.8	347.1	271.4	242.3	240.8	241.5	241.5	241.5
20°	1047.8	848.3	543.6	385.7	280.9	229.0	222.9	220.3	218.4	216.9	215.0
22.5°	1065.6	822.9	485.7	330.1	229.4	209.7	200.3	191.9	185.2	180.6	178.3
25°	1077.7	789.3	432.7	276.7	206.3	190.8	173.8	159.8	149.2	142.7	140.1
27.5°	1086.8	752.9	385.3	231.7	190.4	168.8	146.5	129.8	118.8	113.2	110.9
30°	1093.3	711.7	343.7	203.7	172.7	145.7	121.9	105.6	97.7	94.6	93.1
32.5°	1099.3	665.8	304.4	190.4	155.9	124.6	102.2	89.7	84.8	81.0	79.8
35°	1114.4	623.5	266.9	176.4	138.9	106.3	87.8	78.7	73.8	71.6	70.8
37.5°	1150.4	592.0	230.9	162.0	121.9	92.0	76.8	70.5	65.9	63.6	62.8
40°	1208.3	576.1	200.7	146.5	105.2	81.0	69.6	63.6	58.7	55.2	54.5
42.5°	1293.5	578.4	179.4	131.0	92.0	72.3	62.8	55.6	50.4	47.3	46.6
45°	1396.8	595.1	164.7	115.8	81.0	65.5	55.2	47.7	42.7	40.1	39.4
47.5°	1508.9	622.0	152.6	102.2	72.3	59.1	47.7	39.7	35.6	33.3	33.0
50°	1626.9	648.1	140.1	89.0	64.7	52.6	40.1	33.0	29.5	27.6	26.9
52.5°	1746.6	678.3	128.7	76.8	58.3	45.1	33.3	26.9	24.2	22.7	22.0
55°	1875.3	701.1	117.7	67.4	51.9	38.2	27.6	22.4	20.1	18.1	17.8
57.5°	2026.7	736.3	106.3	58.3	44.2	31.8	22.7	17.8	15.9	14.0	13.6
60°	2231.2	777.5	94.2	51.5	36.4	26.1	18.5	14.4	12.1	10.6	10.2
62.5°	2500.7	823.4	79.1	45.1	29.5	21.2	14.7	11.4	8.7	6.9	6.9
65°	2842.5	897.9	64.7	37.9	24.2	17.4	11.4	8.4	4.9	3.0	3.0
67.5°	3041.9	910.7	52.2	31.0	19.7	14.7	9.5	5.6	1.5	0.4	0.0
69°	2978.0	836.2	44.2	26.5	17.0	14.0	8.7	4.1	0.8	0.0	0.0
70°	2857.6	764.7	39.0	23.5	15.5	13.2	8.4	3.0	0.8	0.0	0.0
72.5°	2361.4	544.4	29.5	17.4	11.4	11.7	7.6	1.9	0.8	0.0	0.0
75°	1720.1	330.9	21.2	12.1	7.2	8.7	5.3	0.8	0.4	0.0	0.0
77.5°	957.0	155.9	13.2	6.9	4.5	5.3	2.6	0.0	0.0	0.0	0.0
80°	310.8	42.4	6.0	3.8	2.6	3.0	1.1	0.0	0.0	0.0	0.0
82.5°	57.6	12.1	3.4	1.9	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	4.9	1.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.5	0.4	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)