

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: P387160

Luminaire Tested: GAW-SA2D-827-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387160
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-SA2D-827-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8628 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

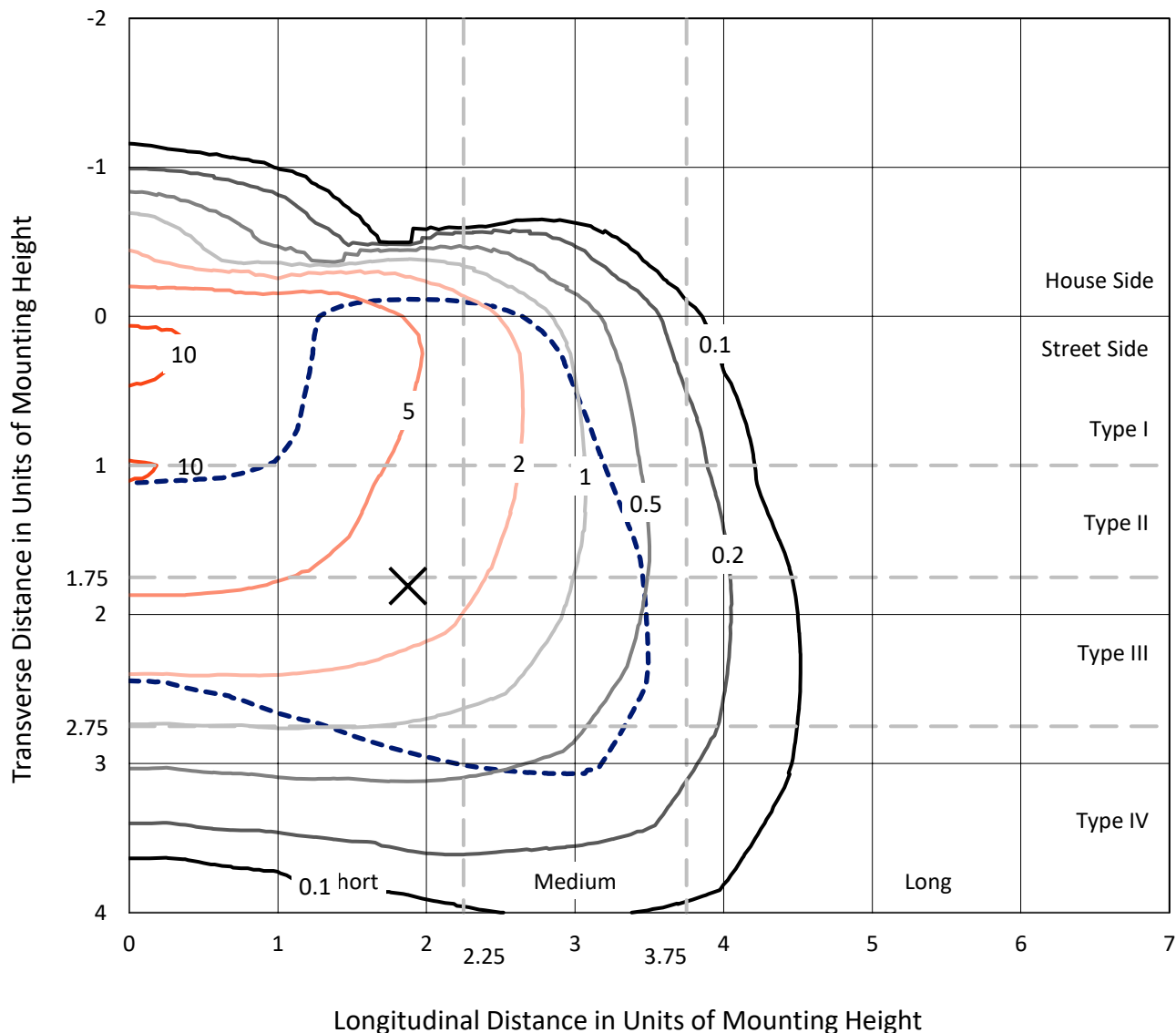
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

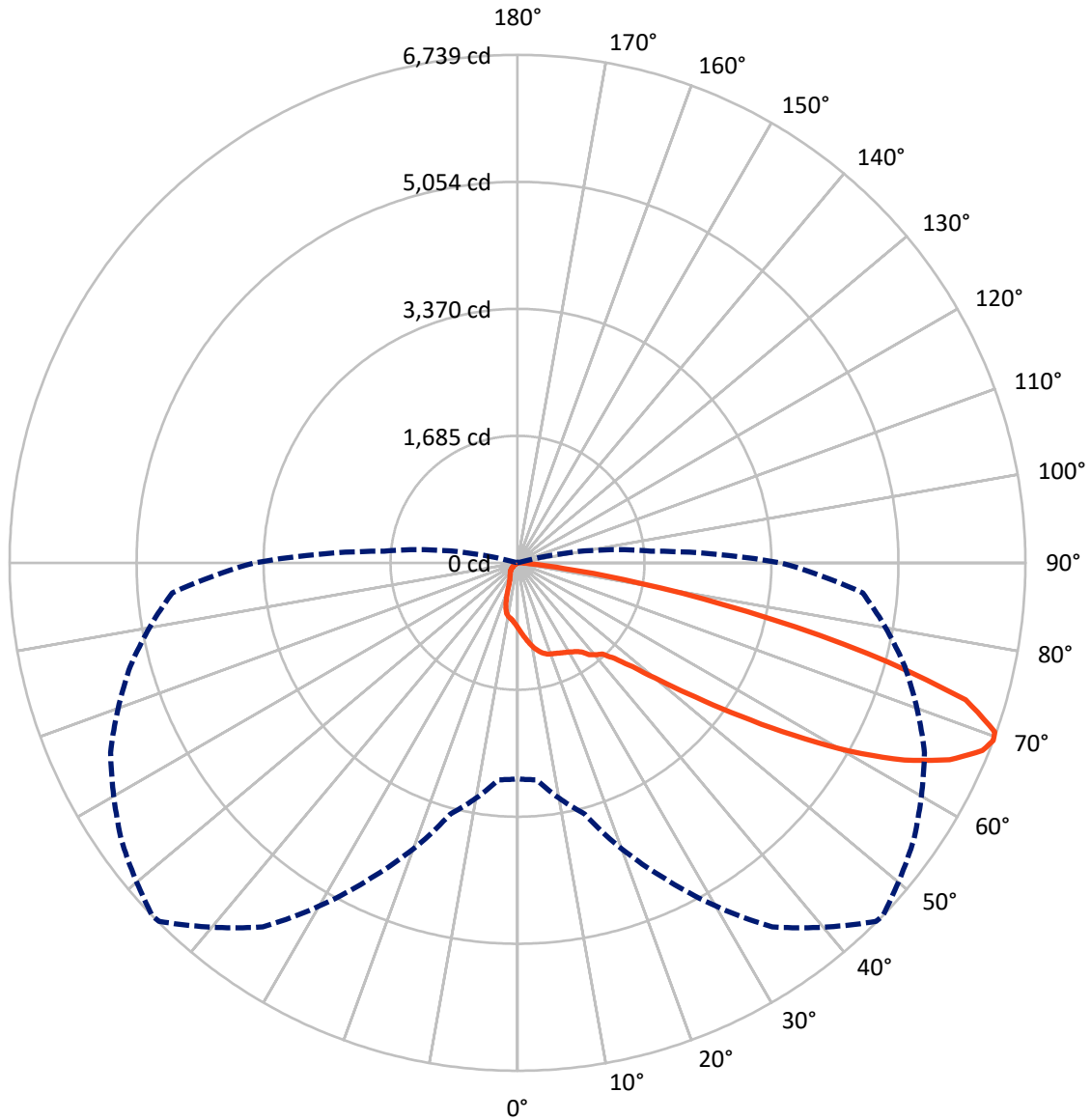
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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
House Side	Lumens	885.5	0.0	885.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7742.5	0.0	7742.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	8628.0	0.0	8628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.0
10°-20°	261.0	3.0
20°-30°	410.5	4.8
30°-40°	588.7	6.8
40°-50°	1017.5	11.8
50°-60°	2010.2	23.3
60°-70°	2809.4	32.6
70°-80°	1357.3	15.7
80°-90°	87.2	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°	8628.0	100.0
0°-180°	8628.0	100.0

Coefficient of Utilization



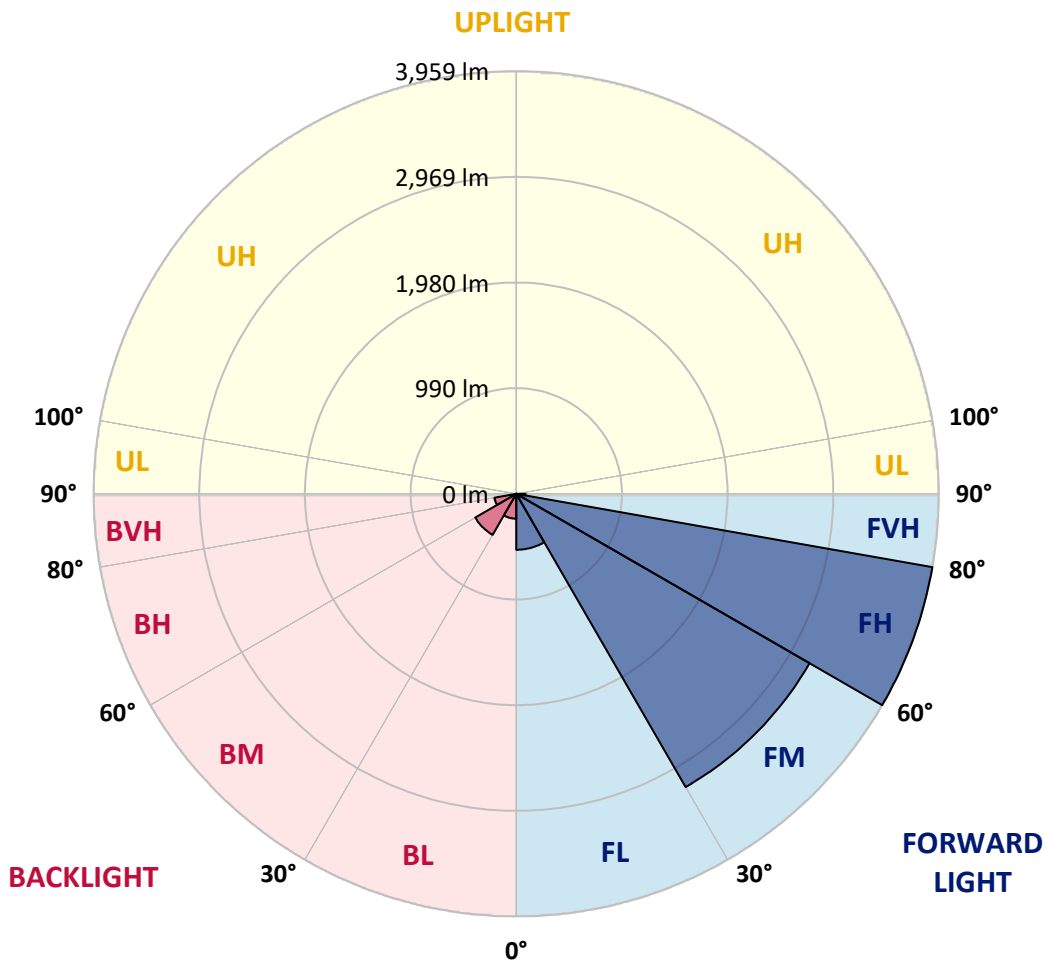
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.3	6.1			
FM (30°-60°)	3172.7	36.8			
FH (60°-80°)	3959.1	45.9			G2/5000
FVH (80°-90°)	86.5	1.0			G1/100
BL (0°-30°)	233.4	2.7	B1/500		
BM (30°-60°)	443.7	5.1	B1/1000		
BH (60°-80°)	207.6	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	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°	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5
2.5°	960.4	959.2	953.5	951.1	937.3	929.2	926.0	915.9	901.3	886.7	870.6
5°	1069.6	1069.2	1058.7	1048.6	1022.7	998.4	993.9	970.5	937.7	907.0	876.2
7.5°	1181.2	1176.0	1165.5	1146.1	1108.4	1069.6	1066.0	1032.8	986.3	941.8	897.7
10°	1275.9	1272.7	1258.9	1229.4	1185.3	1141.2	1136.7	1095.9	1043.3	988.7	932.5
12.5°	1349.5	1347.1	1328.9	1292.1	1245.2	1199.4	1193.4	1157.0	1100.7	1039.7	973.3
15°	1394.4	1393.2	1371.0	1331.7	1285.6	1246.0	1240.7	1208.8	1156.6	1092.7	1017.8
17.5°	1405.0	1405.4	1382.3	1342.7	1304.6	1276.3	1272.3	1248.0	1204.3	1140.8	1062.3
20°	1381.5	1386.3	1365.7	1331.3	1307.9	1292.9	1289.7	1275.1	1238.3	1178.4	1097.9
22.5°	1348.3	1350.7	1336.6	1313.5	1303.8	1306.7	1305.0	1296.9	1265.8	1210.8	1133.1
25°	1328.1	1328.1	1319.6	1300.2	1306.7	1324.0	1324.5	1322.8	1298.2	1250.4	1176.0
27.5°	1327.3	1324.9	1315.1	1300.6	1318.4	1345.1	1346.7	1357.6	1342.3	1298.6	1229.4
30°	1359.6	1356.8	1336.2	1317.2	1339.8	1368.5	1372.6	1396.5	1388.8	1350.7	1288.9
32.5°	1435.3	1425.2	1379.5	1348.3	1365.3	1399.7	1405.0	1443.0	1455.1	1415.1	1346.3
35°	1538.9	1506.9	1441.0	1407.4	1409.0	1445.0	1449.9	1505.7	1541.7	1474.1	1390.8
37.5°	1681.7	1665.9	1558.7	1468.9	1476.2	1530.8	1544.9	1605.6	1595.5	1506.5	1441.4
40°	1994.8	1970.1	1856.0	1641.2	1540.5	1600.3	1604.8	1637.2	1638.0	1579.7	1546.5
42.5°	2421.1	2411.0	2290.9	1953.9	1667.1	1646.9	1655.0	1709.6	1770.7	1734.2	1732.6
45°	2893.2	2888.0	2760.6	2369.0	1923.2	1799.4	1809.5	1882.7	1999.6	2007.7	2059.1
47.5°	3273.1	3270.7	3197.5	2832.2	2315.2	2057.9	2061.1	2138.8	2344.3	2445.8	2527.9
50°	3619.4	3631.1	3573.3	3333.4	2849.1	2462.8	2455.1	2506.9	2837.0	3003.3	3105.2
52.5°	4100.8	4117.4	3955.1	3801.0	3409.4	2965.2	2959.2	3013.4	3429.3	3553.8	3572.1
55°	4525.9	4497.6	4369.4	4324.9	4092.7	3585.8	3584.2	3631.9	4002.1	4055.1	4088.6
57.5°	4713.7	4702.7	4764.6	4866.6	4808.3	4319.2	4315.6	4279.2	4514.6	4520.3	4623.4
60°	4832.2	4845.5	5035.3	5349.6	5494.8	5108.5	5085.0	4862.9	5004.1	4991.6	5102.0
62.5°	4743.2	4769.5	5110.9	5634.8	6008.6	5797.4	5764.2	5397.7	5422.4	5379.1	5481.9
65°	4270.7	4311.5	4871.0	5581.0	6263.4	6335.8	6302.3	5869.8	5754.5	5683.3	5626.3
67.5°	3467.7	3492.0	4076.1	5112.9	6148.5	6657.0	6650.2	6283.7	6005.3	5631.9	5189.4
69°	2865.7	2889.6	3451.9	4620.2	5895.7	6725.8	6739.2	6416.3	5957.6	5319.6	4598.0
70°	2427.2	2452.7	2976.6	4197.9	5602.4	6693.9	6717.7	6403.8	5820.9	4958.0	4078.9
72.5°	1273.1	1294.9	1832.5	2892.0	4567.2	6146.5	6218.9	5862.5	4934.1	3600.8	2411.8
75°	400.1	412.6	715.6	1511.8	3127.1	4779.2	4795.8	4598.8	3503.7	1980.6	1004.5
77.5°	152.5	148.9	238.3	557.0	1580.9	3009.3	3110.9	2873.8	1838.6	700.3	231.8
80°	82.1	82.5	123.8	230.6	676.4	1546.5	1632.3	1392.8	653.3	218.4	53.4
82.5°	35.6	37.2	69.6	122.2	310.7	570.4	613.3	510.5	249.6	146.8	19.8
85°	7.7	8.5	33.6	66.3	126.6	160.2	167.9	165.5	159.0	114.1	7.7
87.5°	0.0	0.0	15.0	23.9	32.0	36.4	32.0	41.7	87.8	76.9	4.0
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°	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5	864.5
2.5°	865.3	858.0	845.5	831.7	822.0	811.9	803.8	800.2	796.1	793.3	796.9
5°	863.7	849.5	825.3	801.8	784.8	771.0	759.7	755.3	750.8	747.6	747.2
7.5°	877.8	858.0	820.8	786.4	760.1	741.5	726.1	719.7	714.4	712.0	710.0
10°	904.9	879.5	829.7	784.8	750.8	719.3	686.1	660.6	644.0	636.3	633.5
12.5°	940.1	908.2	846.7	793.3	743.9	683.3	612.9	552.2	513.0	500.0	492.3
15°	981.4	941.8	868.9	804.2	718.9	608.0	488.7	409.4	373.0	365.7	357.6
17.5°	1021.0	977.4	895.6	806.2	663.8	485.8	358.0	304.2	290.1	294.9	296.1
20°	1055.8	1012.6	921.9	788.4	563.9	364.5	277.1	263.8	269.0	278.3	279.9
22.5°	1091.0	1046.5	946.2	741.5	436.1	276.7	249.6	252.8	258.1	267.4	269.0
25°	1133.9	1087.8	968.9	655.3	327.3	235.4	237.1	241.9	247.2	255.7	256.5
27.5°	1183.3	1140.0	983.8	543.3	242.7	216.4	221.7	229.0	234.2	242.3	243.9
30°	1248.8	1208.8	988.7	427.2	203.5	199.4	201.9	210.8	218.4	225.7	226.9
32.5°	1310.3	1276.7	972.5	322.4	188.5	183.7	183.7	188.9	197.8	204.7	206.3
35°	1366.9	1345.1	920.7	235.8	177.2	169.1	165.1	165.1	170.7	176.4	178.0
37.5°	1441.8	1441.0	837.0	188.1	166.3	157.0	148.5	142.0	140.0	141.2	142.0
40°	1570.0	1571.2	727.8	168.7	157.0	144.4	131.5	119.7	108.8	105.2	104.8
42.5°	1770.2	1752.0	613.3	159.4	148.9	131.5	112.1	96.3	79.3	74.0	73.6
45°	2088.2	1980.2	491.9	150.9	140.4	116.9	92.6	71.2	57.4	53.4	53.4
47.5°	2551.4	2280.0	381.1	141.6	129.0	100.3	70.0	51.4	42.1	40.0	40.5
50°	3030.4	2573.7	292.1	129.9	115.3	82.9	51.8	37.2	32.0	32.0	32.4
52.5°	3455.1	2788.9	227.8	117.3	98.3	65.1	39.2	29.1	26.7	26.3	26.7
55°	3852.8	2927.6	174.4	102.8	78.1	48.5	29.9	23.9	22.2	21.4	21.0
57.5°	4236.3	2996.4	130.7	82.9	56.6	35.2	23.9	20.2	18.6	17.4	17.0
60°	4491.6	2940.6	89.8	61.1	39.2	25.5	19.8	17.4	15.4	14.2	13.8
62.5°	4635.6	2788.1	57.8	44.1	27.9	19.0	15.8	14.6	11.7	10.5	10.5
65°	4577.3	2536.4	40.5	31.6	20.2	14.2	11.7	11.7	8.5	6.9	6.5
67.5°	4056.3	2142.8	30.7	23.5	14.6	10.5	8.9	10.1	5.3	3.2	3.2
69°	3489.9	1775.9	26.3	19.4	12.1	8.5	7.7	9.3	3.6	2.4	2.0
70°	3033.2	1532.0	23.9	17.0	10.1	7.3	6.9	8.9	3.6	2.0	1.6
72.5°	1814.7	854.4	18.2	12.1	6.5	5.7	5.7	10.1	3.6	2.0	1.6
75°	733.4	301.0	13.3	8.5	4.9	4.9	6.9	12.9	3.2	1.6	1.2
77.5°	166.3	65.9	7.7	5.3	3.2	4.9	8.1	10.1	2.0	0.8	0.0
80°	40.5	16.2	4.9	3.2	2.0	3.6	6.1	5.7	0.4	0.0	0.0
82.5°	13.3	5.7	2.0	1.6	0.4	1.2	2.8	1.6	0.0	0.0	0.0
85°	5.7	3.2	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	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)