

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P322055

Luminaire Tested: **GAN-SA1D-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322055
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4249 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

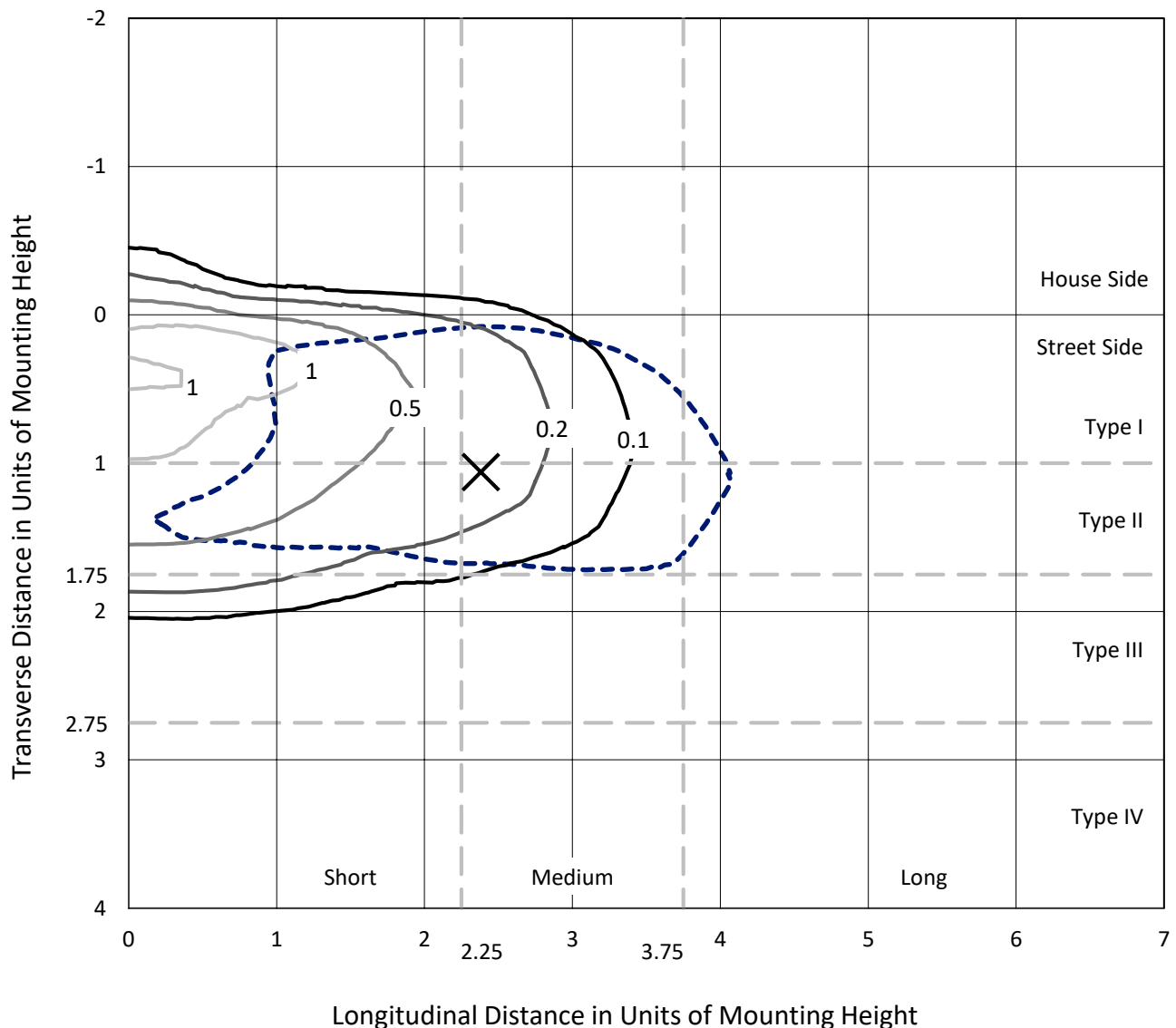
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

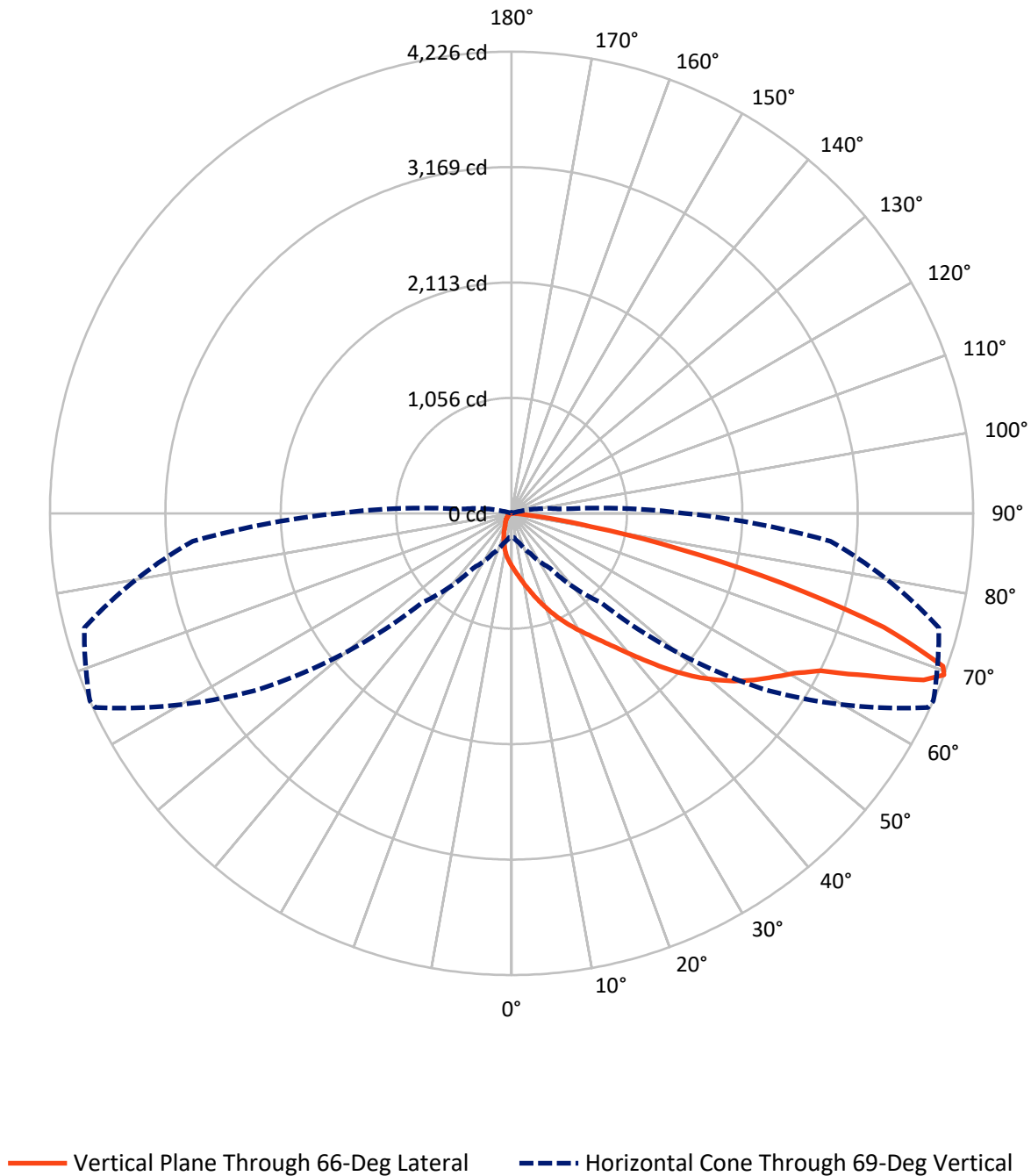
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	254.9	0.0	254.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3994.1	0.0	3994.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	4249.0	0.0	4249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.1
10°-20°	139.1	3.3
20°-30°	242.2	5.7
30°-40°	425.0	10.0
40°-50°	711.4	16.7
50°-60°	1045.7	24.6
60°-70°	1073.7	25.3
70°-80°	530.0	12.5
80°-90°	35.0	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°	4249.0	100.0
0°-180°	4249.0	100.0

Coefficient of Utilization



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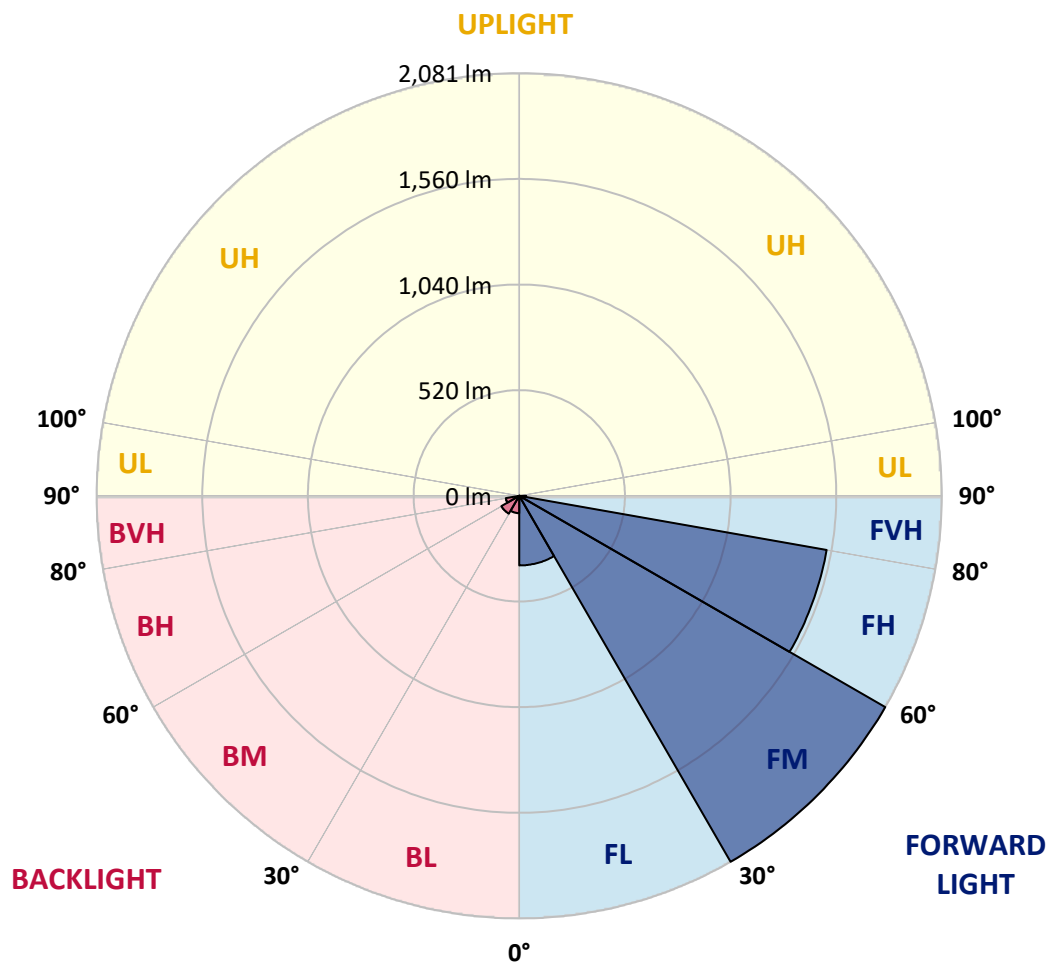
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.9	8.1			
FM	(30°-60°)	2080.5	49.0			
FH	(60°-80°)	1536.6	36.2			G1/1800
FVH	(80°-90°)	34.2	0.8			G1/100
BL	(0°-30°)	85.2	2.0	B0/110		
BM	(30°-60°)	101.6	2.4	B0/220		
BH	(60°-80°)	67.2	1.6	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5
2.5°	569.1	566.7	565.7	561.2	553.6	547.7	536.4	523.3	520.9	508.2	492.6
5°	643.0	641.0	639.6	633.3	625.4	610.7	590.1	565.7	561.0	536.8	505.7
7.5°	694.4	698.1	698.1	694.0	684.2	673.1	647.8	614.5	608.7	571.5	523.3
10°	724.5	729.0	732.4	735.8	734.4	730.0	706.2	668.6	661.6	612.3	543.7
12.5°	727.3	731.8	741.5	755.8	769.7	779.8	764.9	728.6	720.5	659.5	567.9
15°	711.6	716.2	731.2	759.0	792.7	822.2	827.0	795.0	786.7	715.8	598.2
17.5°	684.2	687.2	708.6	747.1	800.0	854.1	883.3	866.2	858.5	780.2	631.9
20°	663.8	666.0	684.8	726.1	795.6	874.1	936.6	941.9	933.8	849.2	668.4
22.5°	698.7	702.7	703.3	722.9	783.4	884.0	983.4	1016.3	1010.3	922.5	704.3
25°	794.1	798.8	783.4	771.3	793.7	888.4	1023.6	1092.6	1087.8	1001.4	740.5
27.5°	920.3	925.1	905.3	869.2	847.6	905.1	1059.3	1170.1	1169.9	1085.0	779.4
30°	1044.2	1049.0	1028.9	992.7	943.1	952.6	1090.2	1251.3	1252.5	1171.1	820.8
32.5°	1174.2	1180.2	1159.4	1113.0	1061.1	1034.5	1133.6	1332.8	1339.7	1271.0	867.4
35°	1321.9	1322.7	1293.4	1244.8	1185.1	1144.1	1203.2	1424.2	1440.6	1394.7	926.5
37.5°	1466.8	1472.6	1448.6	1371.9	1317.0	1270.6	1306.8	1538.4	1561.6	1545.9	1003.8
40°	1574.2	1586.5	1583.0	1500.3	1448.2	1415.1	1435.3	1674.3	1703.7	1721.9	1101.3
42.5°	1641.6	1650.9	1666.6	1616.7	1569.5	1575.0	1587.1	1832.5	1868.8	1922.5	1213.3
45°	1718.9	1723.3	1736.4	1714.4	1682.5	1737.4	1748.1	2010.7	2048.8	2138.2	1337.6
47.5°	1813.3	1823.8	1827.4	1807.3	1792.7	1881.1	1903.3	2172.7	2226.2	2369.3	1469.2
50°	1933.6	1936.4	1942.7	1929.6	1915.0	2004.6	2042.6	2342.9	2391.5	2601.2	1599.0
52.5°	2051.3	2061.3	2083.1	2074.9	2069.0	2109.8	2166.7	2496.3	2550.5	2794.5	1728.5
55°	2085.2	2093.8	2169.1	2220.6	2268.2	2239.3	2285.4	2633.7	2692.4	2967.3	1853.3
57.5°	1949.7	1967.3	2097.7	2231.7	2429.3	2440.8	2448.4	2774.8	2827.4	3099.7	1983.0
60°	1607.5	1610.9	1824.8	2054.7	2402.6	2616.5	2686.6	2926.3	2970.5	3223.0	2138.4
62.5°	1022.4	1057.3	1292.0	1616.5	2120.9	2591.1	2974.6	3155.6	3171.7	3370.9	2361.2
65°	487.0	509.6	678.7	998.8	1536.2	2265.6	3173.3	3570.3	3577.6	3664.2	2658.9
67.5°	269.6	280.5	361.0	537.6	898.1	1602.2	3093.0	4061.5	4068.4	3963.7	2920.1
69°	210.9	220.2	283.6	405.2	608.9	1151.6	2799.0	4205.4	4225.8	4049.4	2929.4
70°	179.0	188.1	244.2	342.3	489.6	889.8	2491.4	4169.7	4191.3	4041.4	2860.1
72.5°	109.6	114.8	162.7	241.0	328.2	447.6	1536.4	3526.3	3562.9	3707.1	2458.1
75°	73.9	76.7	101.7	166.3	234.7	230.5	798.2	2485.6	2564.7	2883.7	1815.5
77.5°	52.9	55.5	68.2	107.6	164.5	152.2	361.5	1544.7	1561.6	1729.6	990.1
80°	30.1	32.5	48.2	64.0	111.6	101.5	143.7	737.8	746.3	741.7	330.6
82.5°	15.7	17.8	26.4	42.2	71.6	66.4	59.7	247.0	248.2	206.5	72.5
85°	3.0	3.6	13.1	28.9	36.9	28.9	24.4	57.9	59.1	52.3	18.0
87.5°	0.0	0.2	5.2	6.5	7.3	7.5	7.9	11.3	12.1	16.3	4.8
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°	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5	483.5
2.5°	485.8	478.5	464.6	448.4	435.9	423.6	413.9	403.8	400.2	398.4	398.2
5°	490.6	475.3	445.8	415.5	390.7	367.3	350.6	334.6	327.1	323.7	322.3
7.5°	498.7	474.1	426.6	380.4	344.7	315.4	292.2	274.9	266.2	262.6	261.1
10°	508.2	472.4	404.2	343.3	297.7	267.4	244.4	227.2	217.8	213.7	211.7
12.5°	519.3	469.6	378.4	305.8	257.5	227.2	199.4	178.2	167.3	162.7	160.4
15°	533.0	466.8	351.4	270.4	222.2	185.3	154.8	140.5	138.2	137.4	137.6
17.5°	546.5	462.4	321.9	235.5	185.1	144.7	129.2	128.4	128.8	128.8	128.8
20°	558.6	452.3	289.8	205.6	149.7	122.1	118.9	117.5	116.4	115.6	114.6
22.5°	568.1	438.7	258.9	176.0	122.3	111.8	106.8	102.3	98.7	96.3	95.1
25°	574.6	420.8	230.7	147.5	110.0	101.7	92.6	85.2	79.5	76.1	74.7
27.5°	579.4	401.4	205.4	123.5	101.5	90.0	78.1	69.2	63.4	60.3	59.1
30°	582.8	379.4	183.2	108.6	92.0	77.7	65.0	56.3	52.1	50.5	49.6
32.5°	586.1	355.0	162.3	101.5	83.1	66.4	54.5	47.8	45.2	43.2	42.6
35°	594.1	332.4	142.3	94.0	74.1	56.7	46.8	42.0	39.4	38.1	37.7
37.5°	613.3	315.6	123.1	86.4	65.0	49.0	41.0	37.5	35.1	33.9	33.5
40°	644.2	307.2	107.0	78.1	56.1	43.2	37.1	33.9	31.3	29.5	29.1
42.5°	689.6	308.4	95.7	69.8	49.0	38.5	33.5	29.7	26.8	25.2	24.8
45°	744.7	317.3	87.8	61.8	43.2	34.9	29.5	25.4	22.8	21.4	21.0
47.5°	804.4	331.6	81.3	54.5	38.5	31.5	25.4	21.2	19.0	17.8	17.6
50°	867.4	345.5	74.7	47.4	34.5	28.1	21.4	17.6	15.7	14.7	14.3
52.5°	931.2	361.7	68.6	41.0	31.1	24.0	17.8	14.3	12.9	12.1	11.7
55°	999.8	373.8	62.8	35.9	27.6	20.4	14.7	11.9	10.7	9.7	9.5
57.5°	1080.5	392.5	56.7	31.1	23.6	17.0	12.1	9.5	8.5	7.5	7.3
60°	1189.5	414.5	50.3	27.4	19.4	13.9	9.9	7.7	6.5	5.7	5.4
62.5°	1333.2	438.9	42.2	24.0	15.7	11.3	7.9	6.1	4.6	3.6	3.6
65°	1515.4	478.7	34.5	20.2	12.9	9.3	6.1	4.4	2.6	1.6	1.6
67.5°	1621.8	485.6	27.9	16.5	10.5	7.9	5.0	3.0	0.8	0.2	0.0
69°	1587.7	445.8	23.6	14.1	9.1	7.5	4.6	2.2	0.4	0.0	0.0
70°	1523.5	407.7	20.8	12.5	8.3	7.1	4.4	1.6	0.4	0.0	0.0
72.5°	1258.9	290.2	15.7	9.3	6.1	6.3	4.0	1.0	0.4	0.0	0.0
75°	917.0	176.4	11.3	6.5	3.8	4.6	2.8	0.4	0.2	0.0	0.0
77.5°	510.2	83.1	7.1	3.6	2.4	2.8	1.4	0.0	0.0	0.0	0.0
80°	165.7	22.6	3.2	2.0	1.4	1.6	0.6	0.0	0.0	0.0	0.0
82.5°	30.7	6.5	1.8	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.7	2.6	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.8	0.2	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)