

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: P321855

Luminaire Tested: **GAN-SA1D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321855
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-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 4834 lumens
Efficiency: N/A
Efficacy: 72.1 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

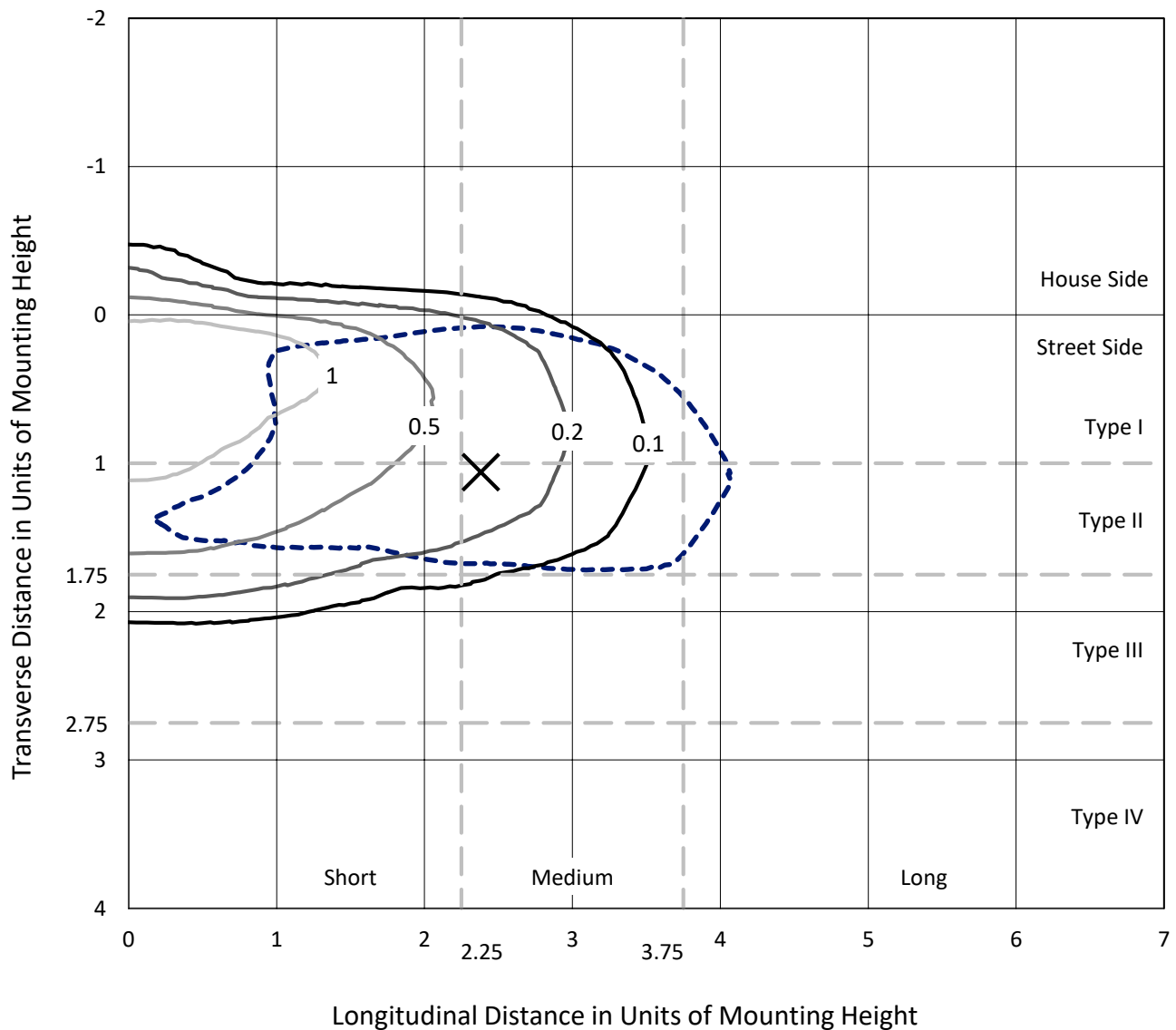
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

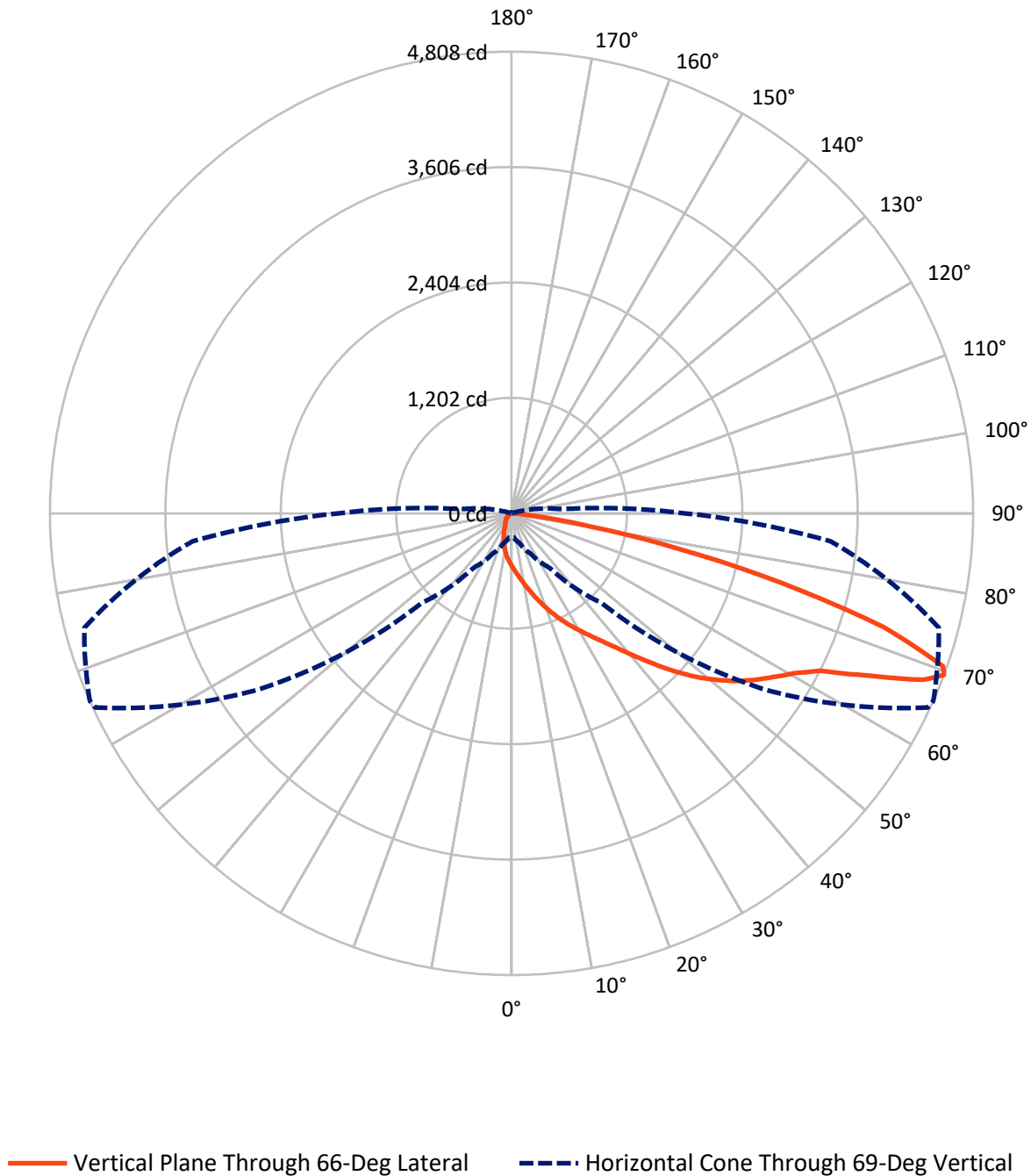
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	290.0	0.0	290.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4544.0	0.0	4544.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	4834.0	0.0	4834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.1
10°-20°	158.3	3.3
20°-30°	275.6	5.7
30°-40°	483.5	10.0
40°-50°	809.4	16.7
50°-60°	1189.7	24.6
60°-70°	1221.5	25.3
70°-80°	603.0	12.5
80°-90°	39.9	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°	4834.0	100.0
0°-180°	4834.0	100.0

Coefficient of Utilization



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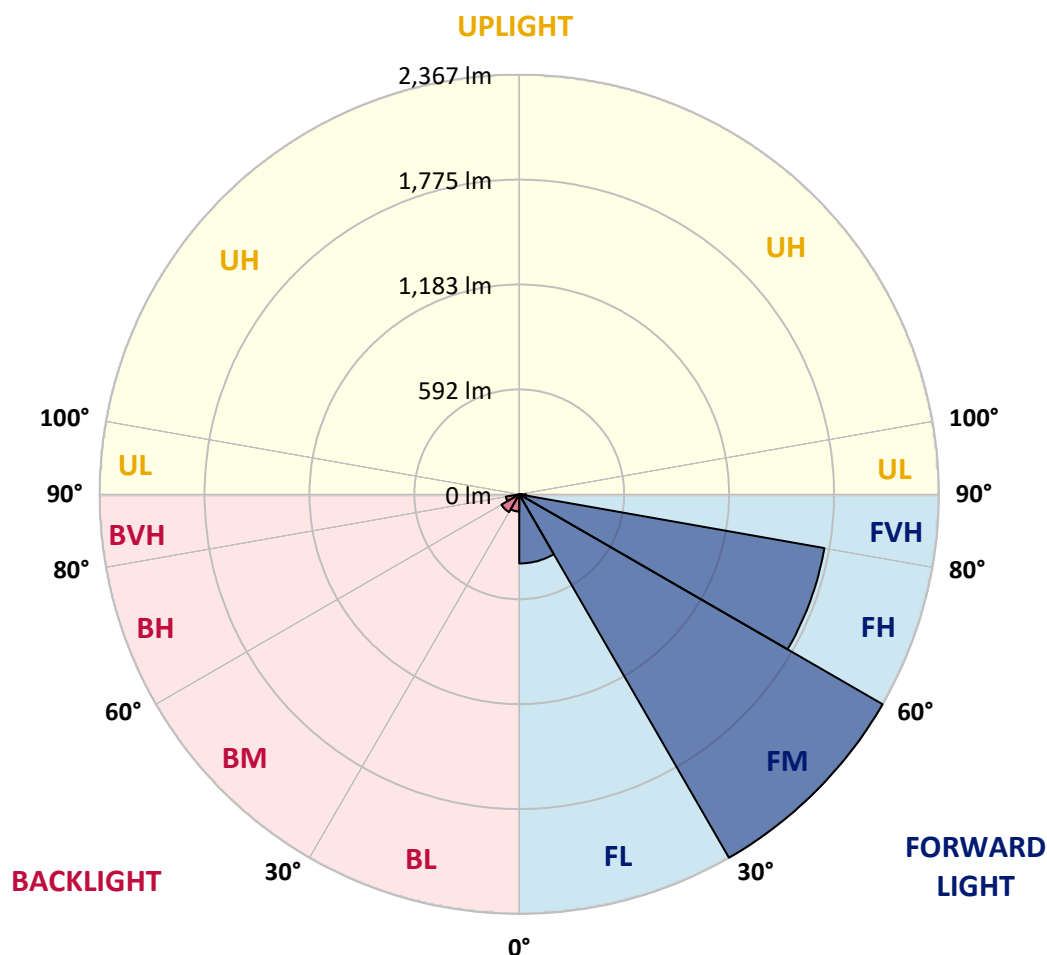
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.1	8.1			
FM	(30°-60°)	2367.0	49.0			
FH	(60°-80°)	1748.1	36.2			G1/1800
FVH	(80°-90°)	38.9	0.8			G1/100
BL	(0°-30°)	97.0	2.0	B0/110		
BM	(30°-60°)	115.6	2.4	B0/220		
BH	(60°-80°)	76.4	1.6	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	647.5	644.7	643.6	638.5	629.8	623.1	610.3	595.4	592.6	578.1	560.5
5°	731.5	729.2	727.6	720.5	711.5	694.8	671.4	643.6	638.3	610.7	575.4
7.5°	790.1	794.2	794.2	789.6	778.3	765.7	737.0	699.1	692.5	650.2	595.4
10°	824.3	829.3	833.2	837.1	835.5	830.5	803.4	760.7	752.6	696.6	618.5
12.5°	827.5	832.5	843.6	859.9	875.7	887.2	870.2	828.9	819.7	750.3	646.1
15°	809.6	814.9	831.8	863.5	901.9	935.4	940.9	904.4	895.0	814.4	680.5
17.5°	778.3	781.8	806.1	850.0	910.1	971.7	1005.0	985.4	976.7	887.6	718.9
20°	755.2	757.7	779.0	826.1	905.1	994.4	1065.6	1071.5	1062.4	966.2	760.4
22.5°	794.9	799.5	800.2	822.4	891.3	1005.7	1118.8	1156.3	1149.4	1049.5	801.3
25°	903.5	908.8	891.3	877.5	903.0	1010.7	1164.5	1243.1	1237.6	1139.3	842.4
27.5°	1047.0	1052.5	1030.0	988.9	964.3	1029.8	1205.2	1331.2	1331.0	1234.3	886.7
30°	1188.0	1193.5	1170.5	1129.4	1072.9	1083.7	1240.3	1423.5	1424.9	1332.4	933.8
32.5°	1335.8	1342.7	1319.1	1266.3	1207.2	1176.9	1289.7	1516.3	1524.1	1446.0	986.8
35°	1503.9	1504.8	1471.5	1416.2	1348.2	1301.6	1368.9	1620.3	1638.9	1586.8	1054.1
37.5°	1668.7	1675.4	1648.1	1560.8	1498.4	1445.6	1486.7	1750.3	1776.7	1758.7	1142.0
40°	1790.9	1804.9	1801.0	1706.9	1647.6	1610.0	1632.9	1904.8	1938.3	1959.0	1252.9
42.5°	1867.6	1878.1	1896.0	1839.3	1785.6	1791.8	1805.6	2084.8	2126.1	2187.2	1380.4
45°	1955.5	1960.6	1975.5	1950.5	1914.2	1976.6	1988.8	2287.5	2330.9	2432.6	1521.8
47.5°	2063.0	2074.9	2079.0	2056.1	2039.5	2140.1	2165.4	2471.9	2532.7	2695.5	1671.5
50°	2199.8	2203.0	2210.1	2195.2	2178.7	2280.6	2323.8	2665.4	2720.8	2959.3	1819.1
52.5°	2333.7	2345.1	2369.9	2360.5	2353.9	2400.3	2465.0	2839.9	2901.7	3179.3	1966.5
55°	2372.2	2382.1	2467.8	2526.3	2580.5	2547.7	2600.0	2996.3	3063.1	3375.8	2108.4
57.5°	2218.2	2238.2	2386.5	2538.9	2763.7	2776.8	2785.5	3156.8	3216.7	3526.4	2256.1
60°	1828.8	1832.7	2076.1	2337.6	2733.4	2976.8	3056.5	3329.2	3379.5	3666.7	2432.9
62.5°	1163.2	1202.9	1469.9	1839.1	2412.9	2947.9	3384.1	3590.0	3608.4	3835.0	2686.3
65°	554.0	579.7	772.1	1136.3	1747.7	2577.5	3610.3	4061.9	4070.1	4168.6	3025.0
67.5°	306.7	319.1	410.8	611.7	1021.7	1822.8	3518.9	4620.7	4628.5	4509.4	3322.1
69°	239.9	250.5	322.6	461.0	692.7	1310.1	3184.3	4784.4	4807.6	4607.0	3332.7
70°	203.7	214.0	277.8	389.4	557.0	1012.3	2834.4	4743.8	4768.4	4597.8	3253.9
72.5°	124.7	130.6	185.1	274.1	373.3	509.3	1748.0	4011.8	4053.4	4217.5	2796.5
75°	84.0	87.2	115.7	189.2	267.0	262.2	908.1	2827.8	2917.8	3280.8	2065.5
77.5°	60.2	63.1	77.6	122.4	187.1	173.1	411.2	1757.4	1776.7	1967.7	1126.4
80°	34.2	37.0	54.9	72.8	127.0	115.5	163.5	839.4	849.1	843.8	376.1
82.5°	17.9	20.2	30.1	48.0	81.5	75.5	68.0	281.0	282.4	234.9	82.4
85°	3.4	4.1	14.9	32.8	42.0	32.8	27.8	65.9	67.3	59.5	20.4
87.5°	0.0	0.2	6.0	7.3	8.3	8.5	9.0	12.9	13.8	18.6	5.5
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°	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1	550.1
2.5°	552.7	544.4	528.5	510.2	495.9	481.9	470.9	459.4	455.3	453.2	453.0
5°	558.2	540.7	507.2	472.7	444.5	417.9	398.8	380.7	372.2	368.3	366.7
7.5°	567.3	539.3	485.4	432.8	392.2	358.9	332.5	312.7	302.8	298.7	297.1
10°	578.1	537.5	459.9	390.6	338.7	304.2	278.0	258.5	247.7	243.1	240.9
12.5°	590.8	534.3	430.5	347.8	293.0	258.5	226.8	202.7	190.3	185.1	182.5
15°	606.4	531.1	399.7	307.7	252.8	210.8	176.1	159.8	157.3	156.4	156.6
17.5°	621.8	526.0	366.2	267.9	210.5	164.6	146.9	146.0	146.5	146.5	146.5
20°	635.5	514.5	329.7	234.0	170.4	138.9	135.2	133.6	132.5	131.6	130.4
22.5°	646.3	499.2	294.6	200.2	139.1	127.2	121.5	116.4	112.3	109.5	108.1
25°	653.7	478.7	262.4	167.8	125.1	115.7	105.4	96.9	90.5	86.6	85.0
27.5°	659.2	456.7	233.7	140.5	115.5	102.4	88.9	78.8	72.1	68.7	67.3
30°	663.1	431.7	208.5	123.5	104.7	88.4	73.9	64.1	59.2	57.4	56.5
32.5°	666.8	403.9	184.6	115.5	94.6	75.5	62.0	54.4	51.4	49.1	48.4
35°	675.9	378.2	161.9	107.0	84.3	64.5	53.3	47.8	44.8	43.4	42.9
37.5°	697.8	359.1	140.1	98.3	73.9	55.8	46.6	42.7	40.0	38.6	38.1
40°	732.9	349.5	121.7	88.9	63.8	49.1	42.2	38.6	35.6	33.5	33.1
42.5°	784.5	350.8	108.8	79.4	55.8	43.9	38.1	33.8	30.5	28.7	28.2
45°	847.2	360.9	99.9	70.3	49.1	39.7	33.5	28.9	25.9	24.3	23.9
47.5°	915.2	377.2	92.5	62.0	43.9	35.8	28.9	24.1	21.6	20.2	20.0
50°	986.8	393.1	85.0	54.0	39.3	31.9	24.3	20.0	17.9	16.8	16.3
52.5°	1059.4	411.4	78.1	46.6	35.4	27.3	20.2	16.3	14.7	13.8	13.3
55°	1137.4	425.2	71.4	40.9	31.5	23.2	16.8	13.5	12.2	11.0	10.8
57.5°	1229.3	446.6	64.5	35.4	26.9	19.3	13.8	10.8	9.6	8.5	8.3
60°	1353.3	471.6	57.2	31.2	22.0	15.8	11.3	8.7	7.3	6.4	6.2
62.5°	1516.7	499.4	48.0	27.3	17.9	12.9	9.0	6.9	5.3	4.1	4.1
65°	1724.1	544.6	39.3	23.0	14.7	10.6	6.9	5.1	3.0	1.8	1.8
67.5°	1845.1	552.4	31.7	18.8	11.9	9.0	5.7	3.4	0.9	0.2	0.0
69°	1806.3	507.2	26.9	16.1	10.3	8.5	5.3	2.5	0.5	0.0	0.0
70°	1733.3	463.8	23.6	14.2	9.4	8.0	5.1	1.8	0.5	0.0	0.0
72.5°	1432.3	330.2	17.9	10.6	6.9	7.1	4.6	1.1	0.5	0.0	0.0
75°	1043.3	200.7	12.9	7.3	4.4	5.3	3.2	0.5	0.2	0.0	0.0
77.5°	580.4	94.6	8.0	4.1	2.8	3.2	1.6	0.0	0.0	0.0	0.0
80°	188.5	25.7	3.7	2.3	1.6	1.8	0.7	0.0	0.0	0.0	0.0
82.5°	34.9	7.3	2.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	7.6	3.0	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.9	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)