

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: P321827

Luminaire Tested: **GAN-SA3A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321827
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-SA3A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 8463 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

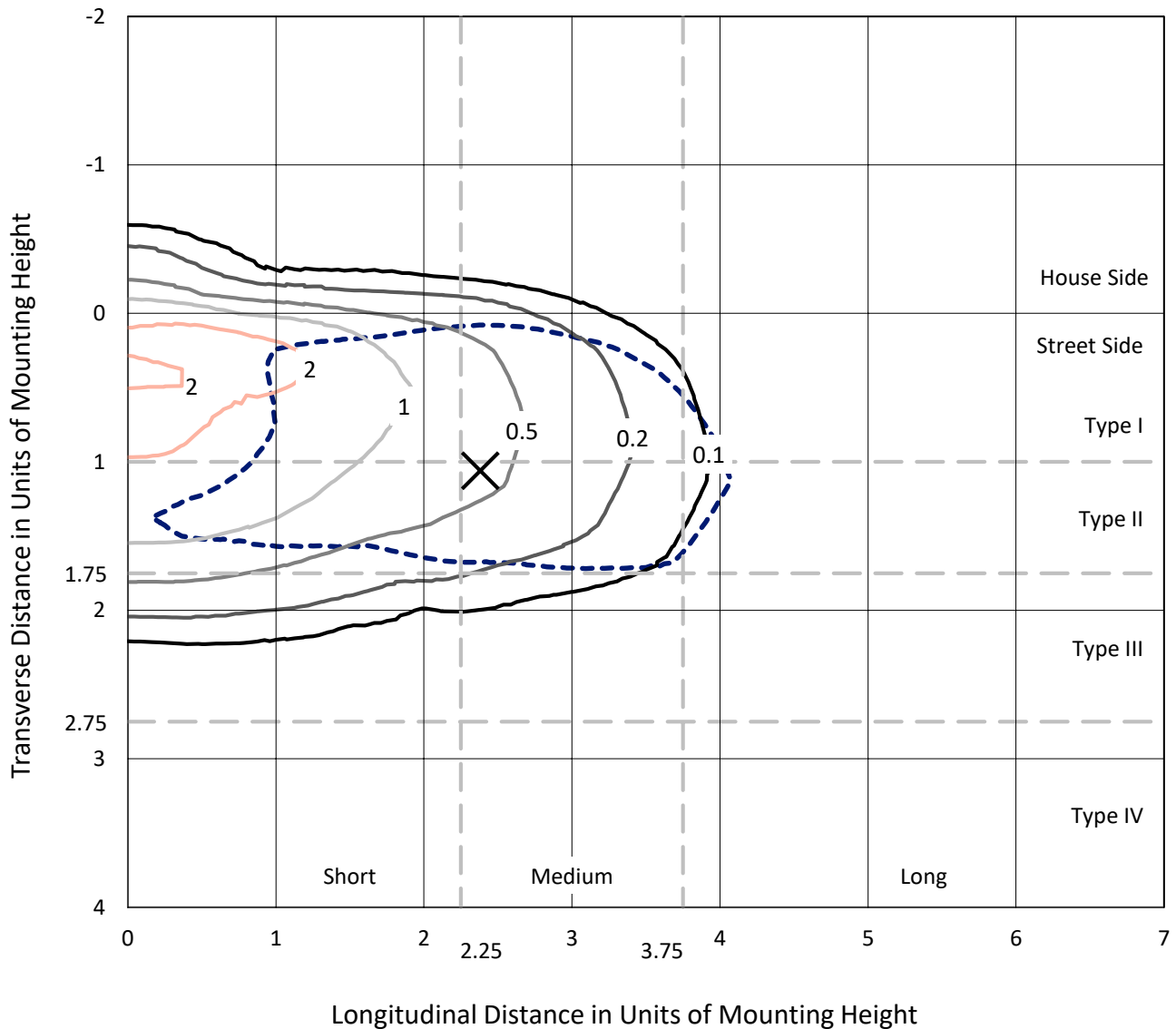
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

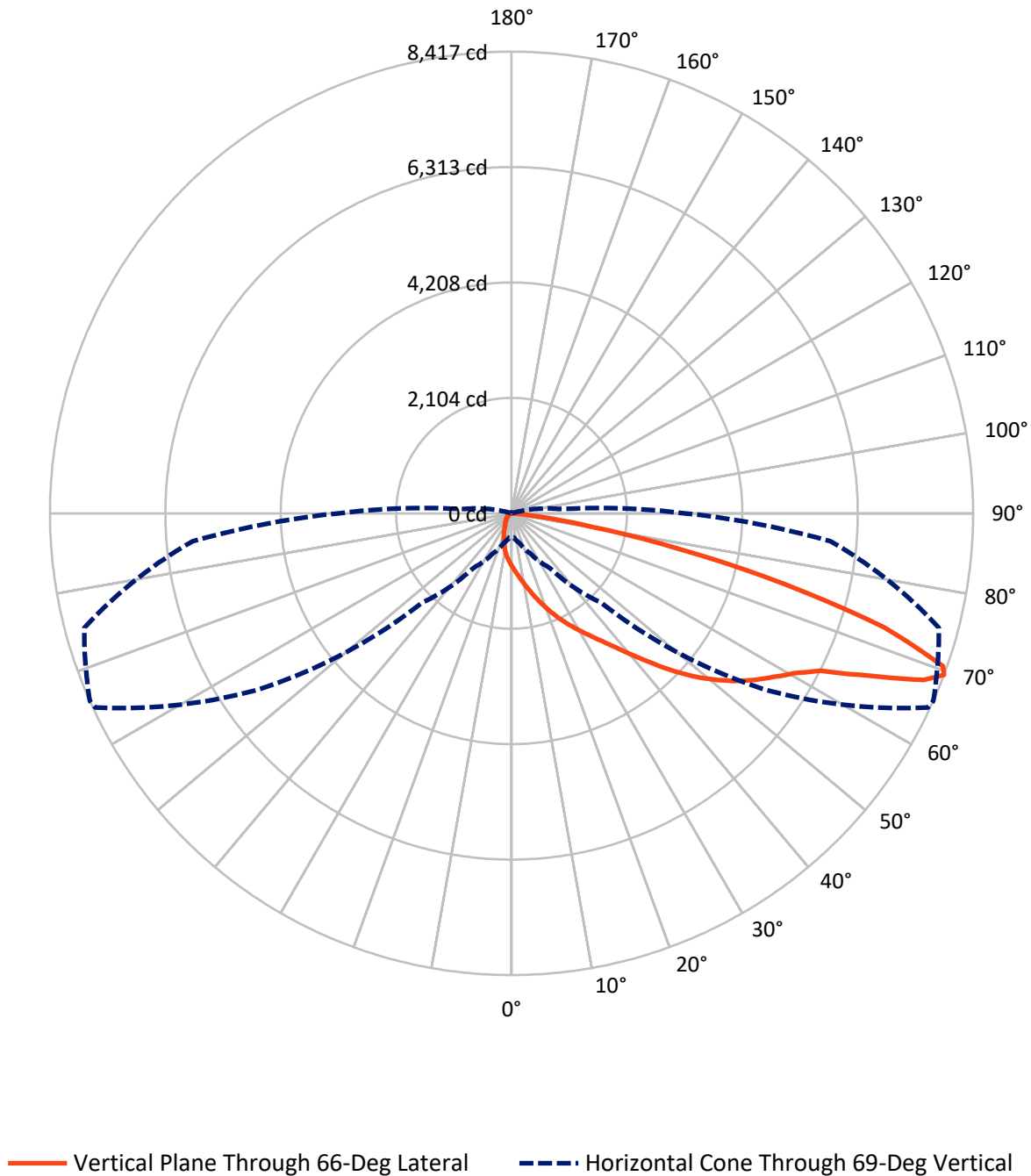
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	507.7	0.0	507.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	7955.3	0.0	7955.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	8463.0	0.0	8463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	1.1
10°-20°	277.1	3.3
20°-30°	482.5	5.7
30°-40°	846.5	10.0
40°-50°	1417.0	16.7
50°-60°	2082.8	24.6
60°-70°	2138.5	25.3
70°-80°	1055.7	12.5
80°-90°	69.8	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°	8463.0	100.0
0°-180°	8463.0	100.0

Coefficient of Utilization



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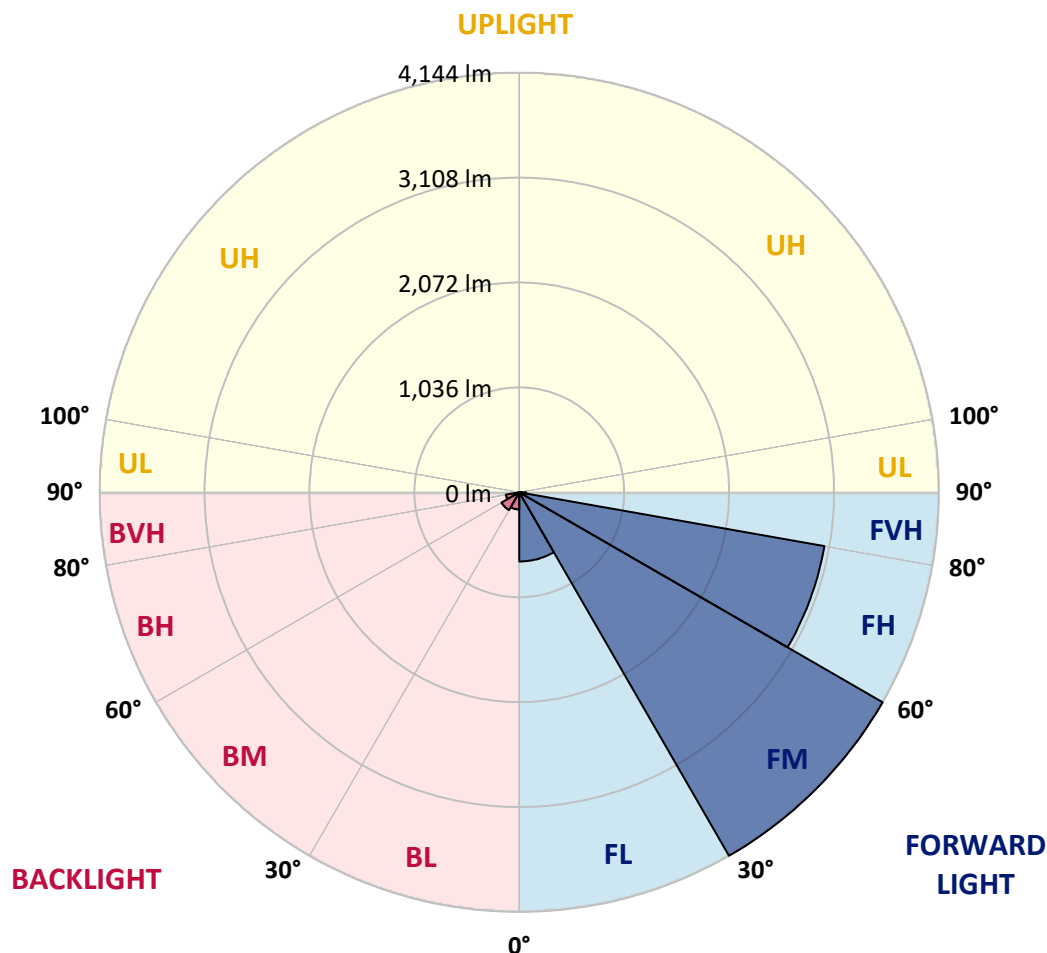
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.9	8.1			
FM	(30°-60°)	4143.9	49.0			
FH	(60°-80°)	3060.4	36.2			G2/5000
FVH	(80°-90°)	68.1	0.8			G1/100
BL	(0°-30°)	169.8	2.0	B1/500		
BM	(30°-60°)	202.4	2.4	B0/220		
BH	(60°-80°)	133.8	1.6	B1/500		G1/500
BVH	(80°-90°)	1.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1
2.5°	1133.6	1128.7	1126.7	1117.9	1102.6	1090.9	1068.4	1042.3	1037.5	1012.2	981.2
5°	1280.7	1276.7	1273.8	1261.4	1245.7	1216.4	1175.4	1126.7	1117.5	1069.2	1007.3
7.5°	1383.2	1390.4	1390.4	1382.4	1362.7	1340.6	1290.3	1224.0	1212.3	1138.4	1042.3
10°	1443.1	1451.9	1458.7	1465.6	1462.8	1453.9	1406.5	1331.7	1317.7	1219.6	1082.9
12.5°	1448.7	1457.5	1476.8	1505.4	1533.1	1553.2	1523.5	1451.1	1435.0	1313.6	1131.1
15°	1417.3	1426.6	1456.3	1511.8	1578.9	1637.6	1647.3	1583.4	1566.9	1425.8	1191.4
17.5°	1362.7	1368.7	1411.3	1488.1	1593.4	1701.1	1759.4	1725.2	1710.0	1554.0	1258.6
20°	1322.1	1326.5	1363.9	1446.3	1584.6	1740.9	1865.5	1876.0	1859.9	1691.5	1331.3
22.5°	1391.6	1399.7	1400.9	1439.9	1560.4	1760.6	1958.8	2024.3	2012.3	1837.4	1402.9
25°	1581.7	1591.0	1560.4	1536.3	1580.9	1769.5	2038.8	2176.3	2166.6	1994.6	1474.8
27.5°	1833.0	1842.6	1803.2	1731.3	1688.3	1802.8	2109.9	2330.6	2330.2	2161.0	1552.4
30°	2079.8	2089.4	2049.2	1977.3	1878.4	1897.3	2171.4	2492.2	2494.6	2332.6	1634.8
32.5°	2338.7	2350.7	2309.3	2216.9	2113.6	2060.5	2257.9	2654.6	2668.3	2531.6	1727.7
35°	2632.9	2634.5	2576.2	2479.3	2360.4	2278.8	2396.5	2836.7	2869.3	2778.0	1845.4
37.5°	2921.5	2933.2	2885.3	2732.6	2623.2	2530.8	2602.7	3064.2	3110.4	3079.1	1999.4
40°	3135.4	3159.9	3153.0	2988.2	2884.5	2818.6	2858.8	3334.7	3393.4	3429.6	2193.5
42.5°	3269.6	3288.1	3319.5	3220.2	3126.1	3137.0	3161.1	3649.9	3722.2	3829.2	2416.6
45°	3423.6	3432.4	3458.5	3414.7	3351.2	3460.5	3481.9	4004.8	4080.8	4258.9	2664.2
47.5°	3611.7	3632.6	3639.8	3599.6	3570.7	3746.7	3791.0	4327.6	4434.1	4719.1	2926.3
50°	3851.3	3856.9	3869.3	3843.2	3814.3	3992.8	4068.3	4666.5	4763.3	5181.0	3184.8
52.5°	4085.6	4105.7	4149.1	4132.6	4121.0	4202.2	4315.5	4971.9	5080.1	5566.1	3442.9
55°	4153.1	4170.4	4320.4	4422.9	4517.7	4460.2	4551.9	5245.7	5362.7	5910.1	3691.3
57.5°	3883.4	3918.4	4178.1	4445.0	4838.5	4861.4	4876.7	5526.7	5631.6	6173.8	3949.7
60°	3201.7	3208.5	3634.6	4092.4	4785.4	5211.5	5351.0	5828.5	5916.6	6419.4	4259.3
62.5°	2036.4	2105.9	2573.4	3219.8	4224.3	5160.9	5924.6	6285.2	6317.3	6714.1	4703.0
65°	970.0	1015.0	1351.8	1989.3	3059.8	4512.5	6320.6	7111.2	7125.7	7298.1	5295.9
67.5°	537.0	558.7	719.1	1070.8	1788.8	3191.2	6160.6	8089.6	8103.3	7894.7	5816.1
69°	420.1	438.5	564.8	807.2	1212.7	2293.6	5574.9	8376.2	8416.8	8065.5	5834.6
70°	356.5	374.6	486.4	681.7	975.2	1772.3	4962.3	8305.1	8348.1	8049.4	5696.7
72.5°	218.3	228.7	324.0	480.0	653.6	891.6	3060.2	7023.6	7096.4	7383.8	4896.0
75°	147.1	152.7	202.6	331.2	467.5	459.0	1589.8	4950.6	5108.2	5743.7	3616.1
77.5°	105.3	110.5	135.9	214.2	327.6	303.1	719.9	3076.7	3110.4	3444.9	1972.1
80°	59.9	64.7	96.1	127.4	222.3	202.2	286.2	1469.6	1486.5	1477.2	658.4
82.5°	31.4	35.4	52.7	84.0	142.7	132.2	119.0	492.0	494.4	411.2	144.3
85°	6.0	7.2	26.1	57.5	73.6	57.5	48.6	115.4	117.8	104.1	35.8
87.5°	0.0	0.4	10.5	12.9	14.5	14.9	15.7	22.5	24.1	32.6	9.6
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°	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1	963.1
2.5°	967.5	953.1	925.3	893.2	868.3	843.7	824.4	804.3	797.1	793.5	793.1
5°	977.2	946.6	887.9	827.7	778.2	731.6	698.2	666.5	651.6	644.8	641.9
7.5°	993.3	944.2	849.8	757.7	686.6	628.3	582.1	547.5	530.2	523.0	520.1
10°	1012.2	941.0	805.1	683.7	592.9	532.6	486.8	452.6	433.7	425.7	421.7
12.5°	1034.3	935.4	753.7	609.0	512.9	452.6	397.1	354.9	333.2	324.0	319.6
15°	1061.6	929.8	699.8	538.6	442.6	369.0	308.3	279.8	275.3	273.7	274.1
17.5°	1088.5	920.9	641.1	469.1	368.6	288.2	257.3	255.7	256.5	256.5	256.5
20°	1112.6	900.8	577.2	409.6	298.3	243.2	236.8	233.9	231.9	230.3	228.3
22.5°	1131.5	873.9	515.7	350.5	243.6	222.7	212.6	203.8	196.6	191.7	189.3
25°	1144.4	838.1	459.5	293.8	219.1	202.6	184.5	169.6	158.4	151.5	148.7
27.5°	1154.1	799.5	409.2	246.0	202.2	179.3	155.6	137.9	126.2	120.2	117.8
30°	1160.9	755.7	365.0	216.3	183.3	154.8	129.4	112.1	103.7	100.5	98.9
32.5°	1167.3	707.1	323.2	202.2	165.6	132.2	108.5	95.3	90.0	86.0	84.8
35°	1183.4	662.0	283.4	187.3	147.5	113.0	93.3	83.6	78.4	76.0	75.2
37.5°	1221.6	628.7	245.2	172.0	129.4	97.7	81.6	74.8	69.9	67.5	66.7
40°	1283.1	611.8	213.0	155.6	111.7	86.0	74.0	67.5	62.3	58.7	57.9
42.5°	1373.5	614.2	190.5	139.1	97.7	76.8	66.7	59.1	53.5	50.2	49.4
45°	1483.3	631.9	174.9	123.0	86.0	69.5	58.7	50.6	45.4	42.6	41.8
47.5°	1602.2	660.4	162.0	108.5	76.8	62.7	50.6	42.2	37.8	35.4	35.0
50°	1727.7	688.2	148.7	94.5	68.7	55.9	42.6	35.0	31.4	29.3	28.5
52.5°	1854.7	720.3	136.7	81.6	61.9	47.8	35.4	28.5	25.7	24.1	23.3
55°	1991.4	744.4	125.0	71.6	55.1	40.6	29.3	23.7	21.3	19.3	18.9
57.5°	2152.1	781.8	113.0	61.9	47.0	33.8	24.1	18.9	16.9	14.9	14.5
60°	2369.2	825.6	100.1	54.7	38.6	27.7	19.7	15.3	12.9	11.3	10.9
62.5°	2655.4	874.3	84.0	47.8	31.4	22.5	15.7	12.1	9.2	7.2	7.2
65°	3018.4	953.5	68.7	40.2	25.7	18.5	12.1	8.8	5.2	3.2	3.2
67.5°	3230.2	967.1	55.5	33.0	20.9	15.7	10.0	6.0	1.6	0.4	0.0
69°	3162.3	887.9	47.0	28.1	18.1	14.9	9.2	4.4	0.8	0.0	0.0
70°	3034.5	812.0	41.4	24.9	16.5	14.1	8.8	3.2	0.8	0.0	0.0
72.5°	2507.5	578.0	31.4	18.5	12.1	12.5	8.0	2.0	0.8	0.0	0.0
75°	1826.5	351.3	22.5	12.9	7.6	9.2	5.6	0.8	0.4	0.0	0.0
77.5°	1016.2	165.6	14.1	7.2	4.8	5.6	2.8	0.0	0.0	0.0	0.0
80°	330.0	45.0	6.4	4.0	2.8	3.2	1.2	0.0	0.0	0.0	0.0
82.5°	61.1	12.9	3.6	2.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	13.3	5.2	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.6	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)