

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: P321987

Luminaire Tested: **GAN-SA3A-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321987
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-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 10120 lumens
Efficiency: N/A
Efficacy: 105.4 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

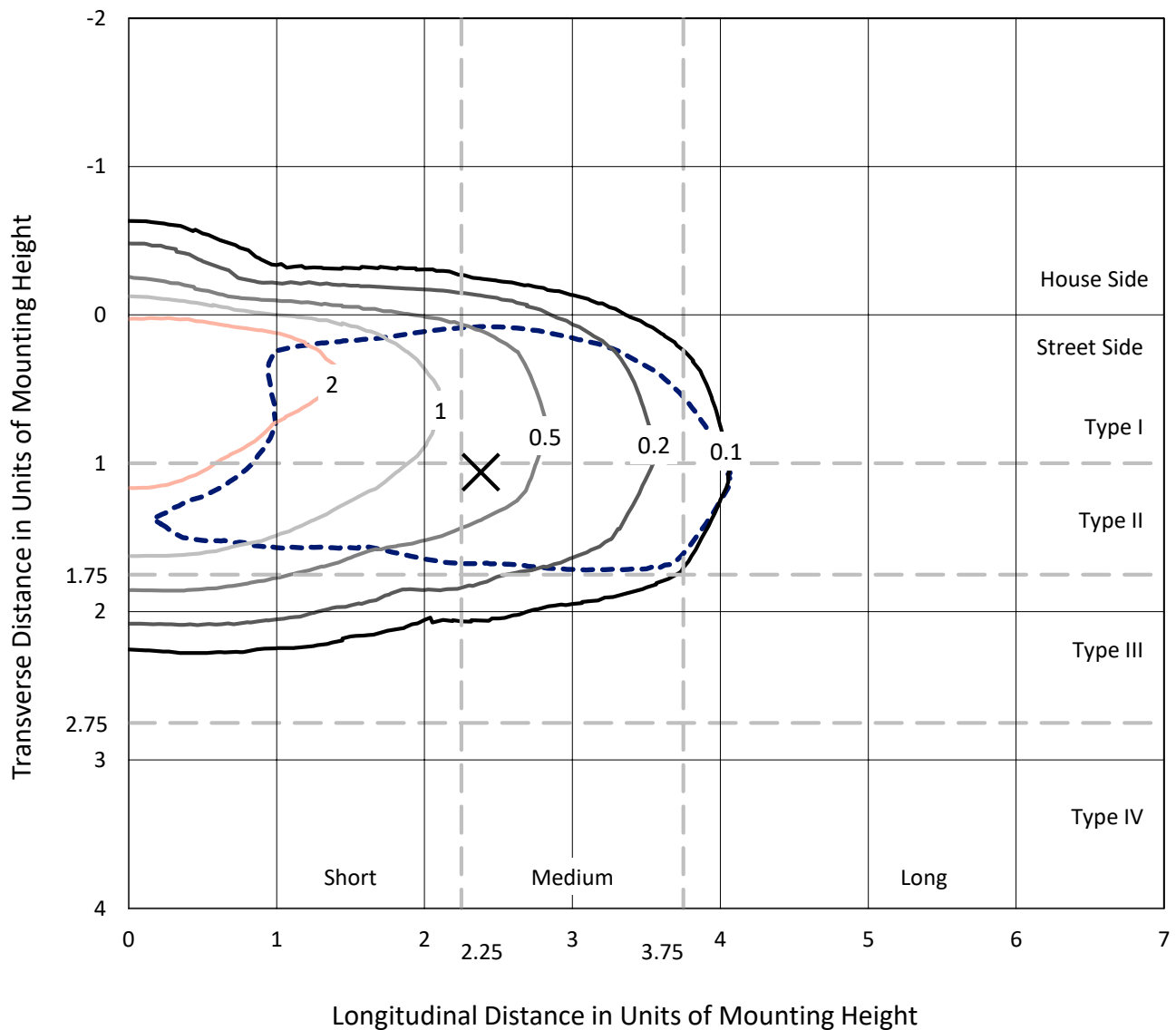


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Iso-Footcandle Lines of Horizontal Illumination

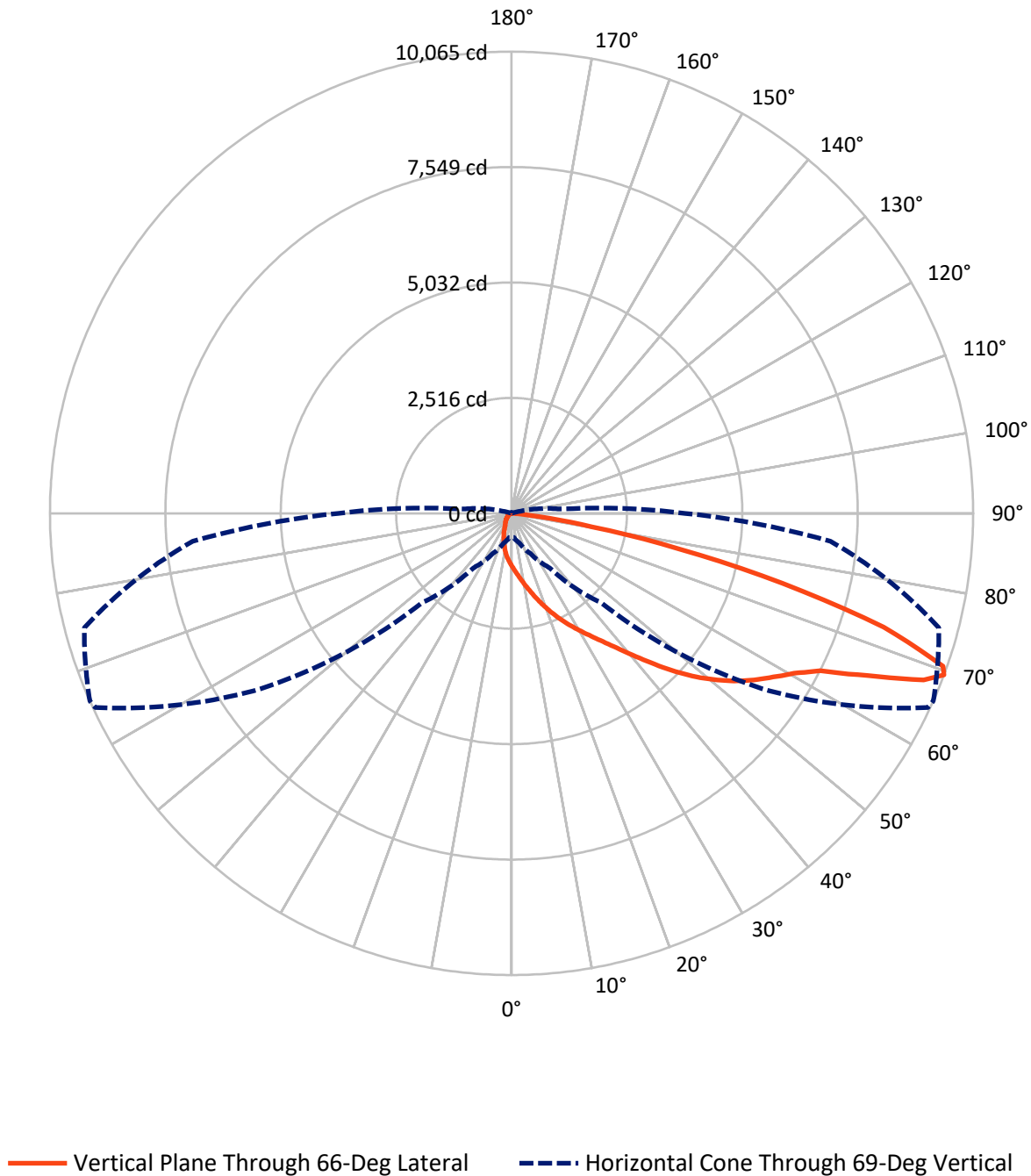
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	607.1	0.0	607.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	9512.9	0.0	9512.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	10120.0	0.0	10120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	1.1
10°-20°	331.3	3.3
20°-30°	577.0	5.7
30°-40°	1012.3	10.0
40°-50°	1694.4	16.7
50°-60°	2490.6	24.6
60°-70°	2557.2	25.3
70°-80°	1262.4	12.5
80°-90°	83.5	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°	10120.0	100.0
0°-180°	10120.0	100.0

Coefficient of Utilization



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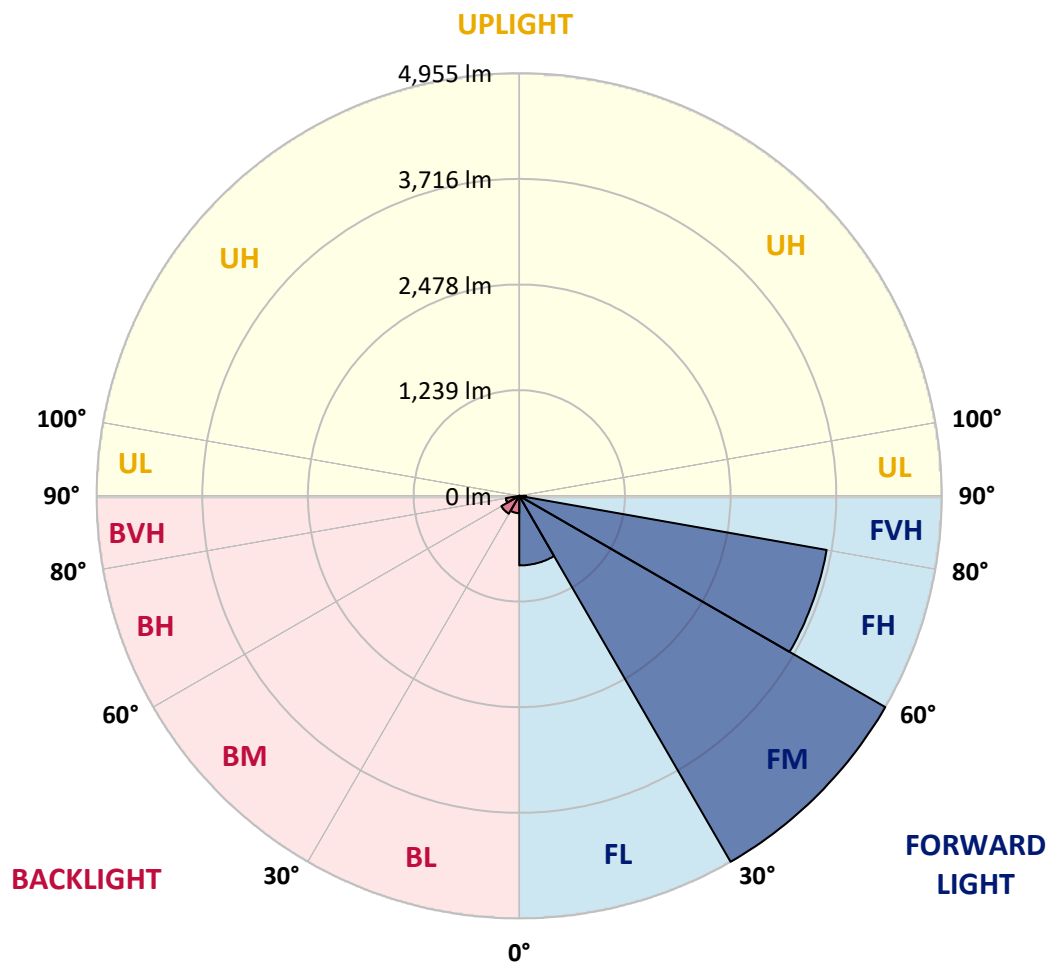
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	816.6	8.1			
FM	(30°-60°)	4955.2	49.0			
FH	(60°-80°)	3659.7	36.2			G2/5000
FVH	(80°-90°)	81.5	0.8			G1/100
BL	(0°-30°)	203.0	2.0	B1/500		
BM	(30°-60°)	242.0	2.4	B1/1000		
BH	(60°-80°)	160.0	1.6	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7
2.5°	1355.5	1349.7	1347.3	1336.7	1318.5	1304.5	1277.6	1246.4	1240.6	1210.3	1173.3
5°	1531.4	1526.6	1523.2	1508.3	1489.6	1454.5	1405.5	1347.3	1336.3	1278.6	1204.6
7.5°	1654.0	1662.6	1662.6	1653.0	1629.5	1603.0	1543.0	1463.6	1449.7	1361.3	1246.4
10°	1725.6	1736.2	1744.4	1752.5	1749.2	1738.6	1681.9	1592.5	1575.6	1458.4	1294.9
12.5°	1732.3	1742.9	1766.0	1800.1	1833.3	1857.3	1821.7	1735.2	1716.0	1570.8	1352.6
15°	1694.8	1705.9	1741.5	1807.8	1888.1	1958.3	1969.8	1893.4	1873.7	1704.9	1424.7
17.5°	1629.5	1636.7	1687.6	1779.4	1905.4	2034.2	2103.9	2063.0	2044.8	1858.3	1505.0
20°	1580.9	1586.2	1630.9	1729.5	1894.8	2081.8	2230.8	2243.3	2224.1	2022.7	1592.0
22.5°	1664.1	1673.7	1675.1	1721.8	1866.0	2105.3	2342.3	2420.7	2406.2	2197.1	1677.5
25°	1891.4	1902.5	1866.0	1837.1	1890.5	2115.9	2438.0	2602.4	2590.8	2385.1	1763.6
27.5°	2191.9	2203.4	2156.3	2070.3	2018.8	2155.8	2523.0	2786.9	2786.5	2584.1	1856.4
30°	2487.0	2498.5	2450.5	2364.4	2246.2	2268.8	2596.6	2980.2	2983.0	2789.3	1954.9
32.5°	2796.5	2811.0	2761.5	2650.9	2527.4	2463.9	2699.9	3174.4	3190.7	3027.3	2065.9
35°	3148.4	3150.3	3080.6	2964.8	2822.5	2724.9	2865.8	3392.1	3431.0	3321.9	2206.8
37.5°	3493.5	3507.5	3450.3	3267.6	3136.9	3026.3	3112.3	3664.2	3719.4	3681.9	2390.9
40°	3749.2	3778.6	3770.4	3573.3	3449.3	3370.5	3418.5	3987.6	4057.8	4101.1	2623.0
42.5°	3909.8	3931.9	3969.4	3850.7	3738.2	3751.2	3780.0	4364.5	4451.0	4578.9	2889.8
45°	4093.9	4104.5	4135.7	4083.3	4007.4	4138.1	4163.6	4788.9	4879.8	5092.7	3185.9
47.5°	4318.8	4343.8	4352.5	4304.4	4269.8	4480.3	4533.2	5174.9	5302.3	5643.1	3499.3
50°	4605.3	4612.0	4626.9	4595.7	4561.1	4774.5	4864.9	5580.1	5696.0	6195.4	3808.4
52.5°	4885.5	4909.6	4961.5	4941.8	4927.8	5024.9	5160.5	5945.4	6074.7	6655.9	4116.9
55°	4966.3	4987.0	5166.3	5288.8	5402.3	5333.5	5443.1	6272.8	6412.6	7067.3	4414.0
57.5°	4643.8	4685.6	4996.1	5315.3	5785.8	5813.2	5831.5	6608.8	6734.2	7382.6	4723.1
60°	3828.5	3836.7	4346.2	4893.7	5722.4	6231.9	6398.7	6969.7	7075.0	7676.3	5093.2
62.5°	2435.1	2518.2	3077.3	3850.2	5051.4	6171.3	7084.6	7515.8	7554.2	8028.7	5623.9
65°	1159.9	1213.7	1616.5	2378.8	3658.9	5396.0	7558.1	8503.6	8520.9	8727.1	6332.8
67.5°	642.2	668.1	859.9	1280.5	2139.0	3816.0	7366.8	9673.5	9689.9	9440.4	6954.8
69°	502.3	524.4	675.3	965.2	1450.2	2742.7	6666.4	10016.2	10064.8	9644.7	6976.9
70°	426.4	448.0	581.6	815.2	1166.1	2119.3	5933.9	9931.2	9982.6	9625.4	6812.1
72.5°	261.0	273.5	387.4	573.9	781.6	1066.1	3659.4	8398.8	8485.8	8829.5	5854.6
75°	175.9	182.7	242.3	396.1	559.0	548.9	1901.1	5919.9	6108.4	6868.3	4324.1
77.5°	125.9	132.2	162.5	256.2	391.7	362.4	860.9	3679.1	3719.4	4119.4	2358.2
80°	71.6	77.4	114.9	152.4	265.8	241.8	342.2	1757.3	1777.5	1766.5	787.3
82.5°	37.5	42.3	63.0	100.5	170.6	158.1	142.3	588.3	591.2	491.7	172.6
85°	7.2	8.7	31.2	68.7	88.0	68.7	58.2	138.0	140.8	124.5	42.8
87.5°	0.0	0.5	12.5	15.4	17.3	17.8	18.7	26.9	28.8	38.9	11.5
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°	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7	1151.7
2.5°	1157.0	1139.7	1106.5	1068.1	1038.3	1008.9	985.9	961.8	953.2	948.8	948.4
5°	1168.5	1132.0	1061.8	989.7	930.6	874.8	834.9	797.0	779.2	771.0	767.6
7.5°	1187.7	1129.1	1016.1	906.1	821.0	751.3	696.0	654.7	634.0	625.4	622.0
10°	1210.3	1125.3	962.8	817.6	709.0	636.9	582.1	541.2	518.6	509.0	504.2
12.5°	1236.8	1118.5	901.3	728.2	613.3	541.2	474.9	424.4	398.5	387.4	382.1
15°	1269.5	1111.8	836.8	644.1	529.2	441.3	368.7	334.5	329.3	327.3	327.8
17.5°	1301.7	1101.2	766.7	560.9	440.8	344.6	307.6	305.7	306.7	306.7	306.7
20°	1330.5	1077.2	690.2	489.8	356.7	290.8	283.1	279.8	277.3	275.4	273.0
22.5°	1353.1	1045.0	616.7	419.1	291.3	266.3	254.3	243.7	235.0	229.3	226.4
25°	1368.5	1002.2	549.4	351.4	262.0	242.3	220.6	202.8	189.4	181.2	177.8
27.5°	1380.0	956.1	489.3	294.2	241.8	214.4	186.0	164.9	150.9	143.7	140.8
30°	1388.2	903.7	436.4	258.6	219.2	185.1	154.8	134.1	124.0	120.2	118.2
32.5°	1395.9	845.5	386.5	241.8	198.0	158.1	129.8	113.9	107.7	102.9	101.4
35°	1415.1	791.7	338.9	224.0	176.4	135.1	111.5	100.0	93.7	90.8	89.9
37.5°	1460.8	751.8	293.2	205.7	154.8	116.8	97.6	89.4	83.6	80.8	79.8
40°	1534.3	731.6	254.8	186.0	133.6	102.9	88.4	80.8	74.5	70.2	69.2
42.5°	1642.5	734.5	227.8	166.3	116.8	91.8	79.8	70.7	63.9	60.1	59.1
45°	1773.7	755.6	209.1	147.1	102.9	83.2	70.2	60.6	54.3	51.0	50.0
47.5°	1916.0	789.7	193.7	129.8	91.8	75.0	60.6	50.5	45.2	42.3	41.8
50°	2065.9	822.9	177.8	113.0	82.2	66.8	51.0	41.8	37.5	35.1	34.1
52.5°	2217.8	861.4	163.4	97.6	74.0	57.2	42.3	34.1	30.8	28.8	27.9
55°	2381.2	890.2	149.5	85.6	65.9	48.5	35.1	28.4	25.5	23.1	22.6
57.5°	2573.5	934.9	135.1	74.0	56.2	40.4	28.8	22.6	20.2	17.8	17.3
60°	2833.1	987.3	119.7	65.4	46.1	33.2	23.6	18.3	15.4	13.5	13.0
62.5°	3175.3	1045.5	100.5	57.2	37.5	26.9	18.7	14.4	11.1	8.7	8.7
65°	3609.4	1140.2	82.2	48.1	30.8	22.1	14.4	10.6	6.2	3.8	3.8
67.5°	3862.7	1156.5	66.3	39.4	25.0	18.7	12.0	7.2	1.9	0.5	0.0
69°	3781.4	1061.8	56.2	33.6	21.6	17.8	11.1	5.3	1.0	0.0	0.0
70°	3628.6	971.0	49.5	29.8	19.7	16.8	10.6	3.8	1.0	0.0	0.0
72.5°	2998.4	691.2	37.5	22.1	14.4	14.9	9.6	2.4	1.0	0.0	0.0
75°	2184.2	420.1	26.9	15.4	9.1	11.1	6.7	1.0	0.5	0.0	0.0
77.5°	1215.1	198.0	16.8	8.7	5.8	6.7	3.4	0.0	0.0	0.0	0.0
80°	394.6	53.8	7.7	4.8	3.4	3.8	1.4	0.0	0.0	0.0	0.0
82.5°	73.1	15.4	4.3	2.4	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	6.2	2.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.9	0.5	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)