

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: P321187

Luminaire Tested: **GAN-SA3A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9603 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

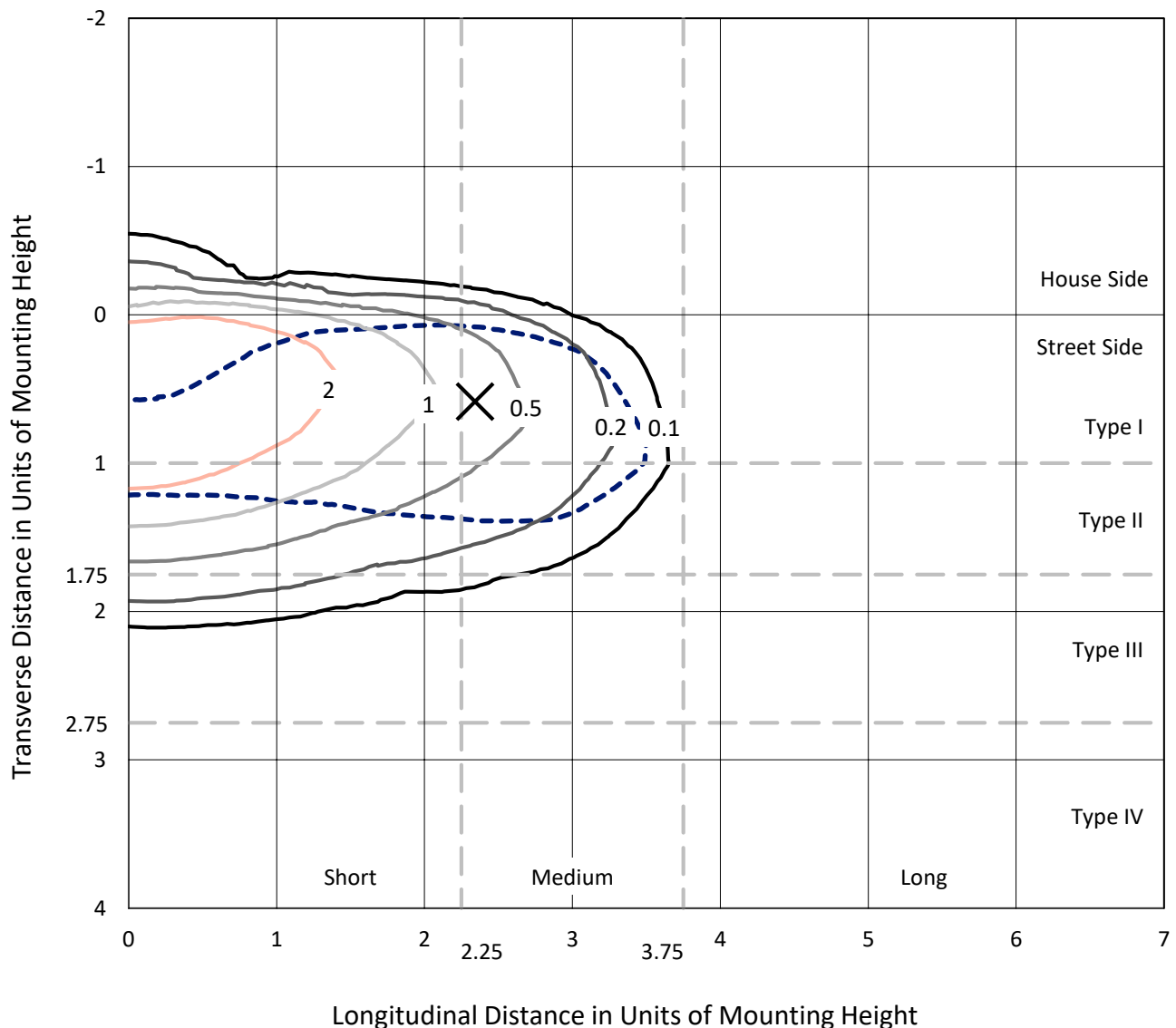
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

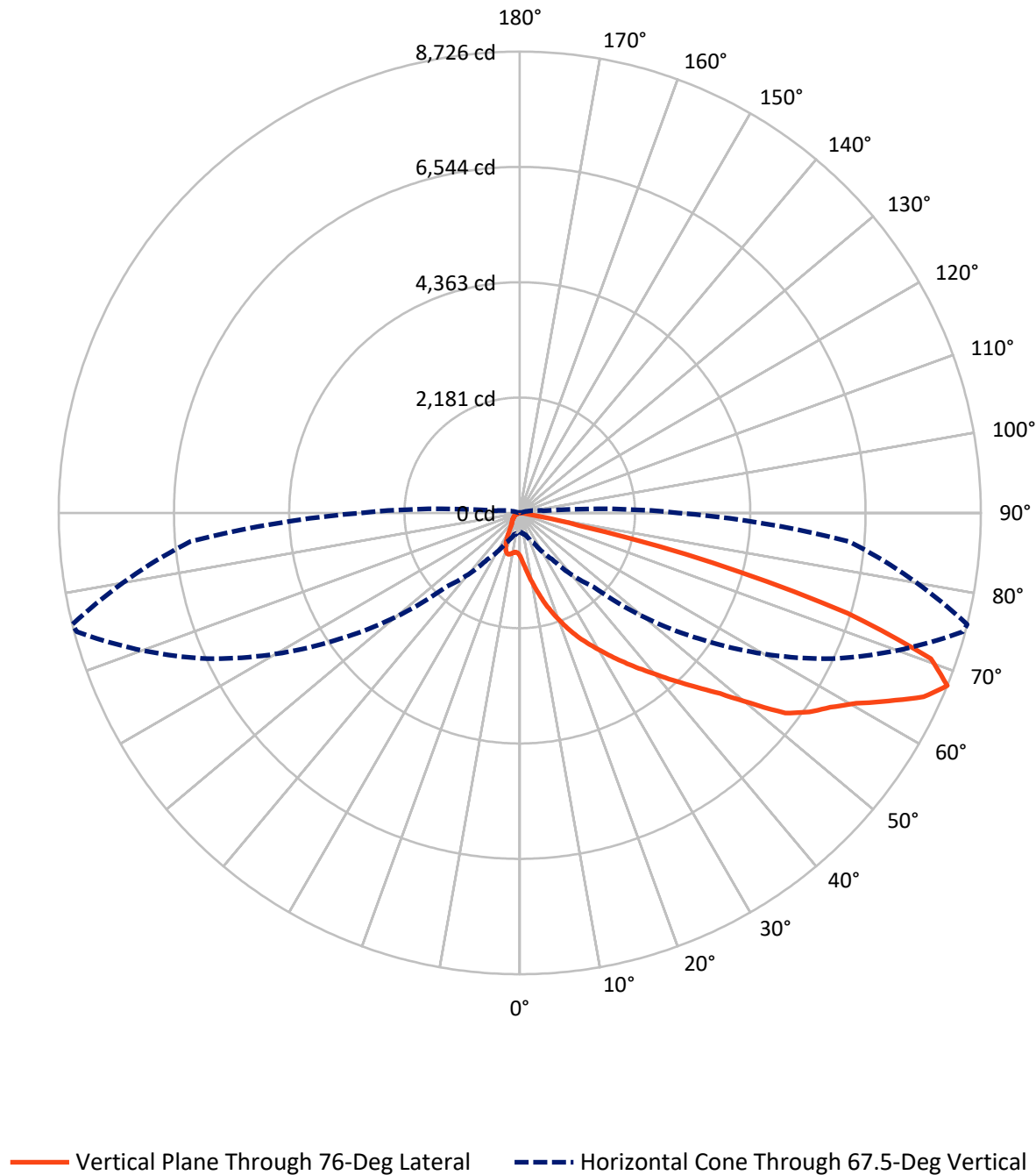
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	476.9	0.0	476.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9126.1	0.0	9126.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	9603.0	0.0	9603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.1
10°-20°	401.6	4.2
20°-30°	817.0	8.5
30°-40°	1418.1	14.8
40°-50°	2003.6	20.9
50°-60°	2272.2	23.7
60°-70°	1884.5	19.6
70°-80°	682.6	7.1
80°-90°	22.1	0.2
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°	9603.0	100.0
0°-180°	9603.0	100.0

Coefficient of Utilization



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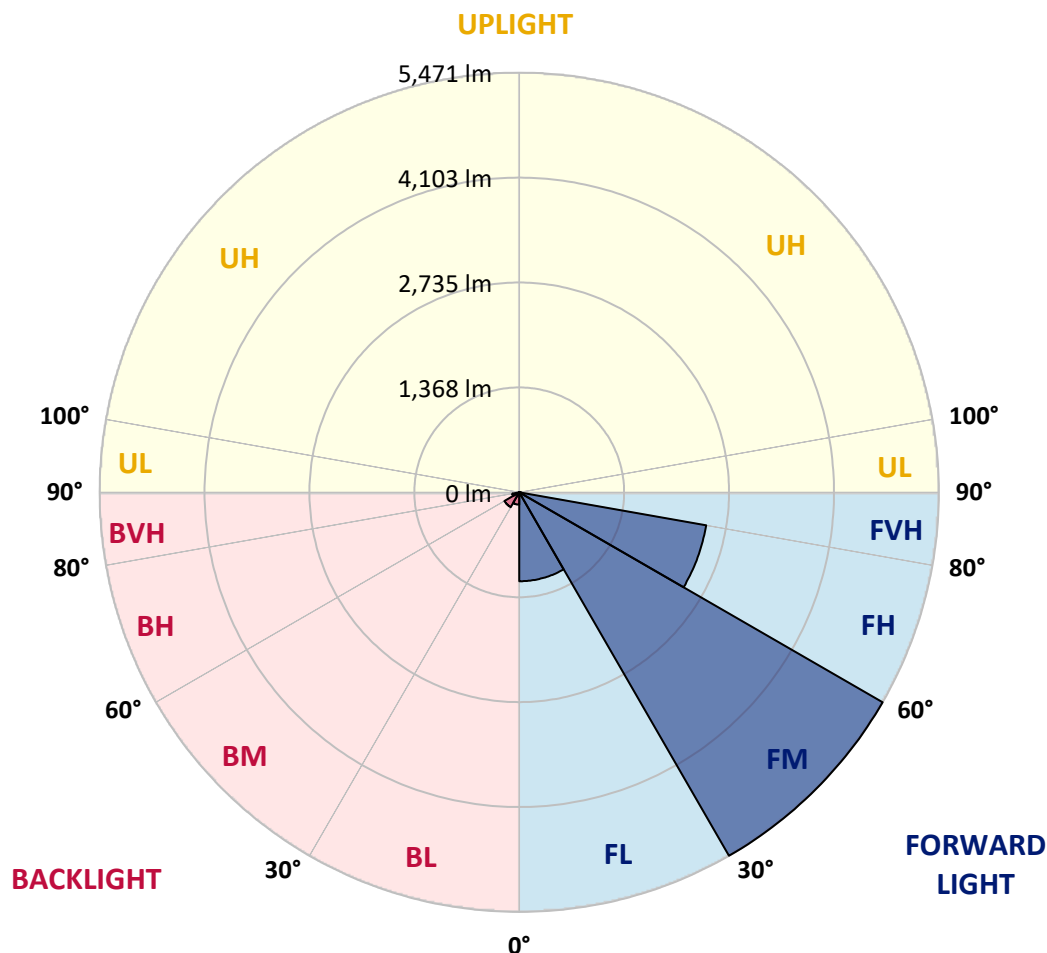
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.1	12.1			
FM	(30°-60°)	5470.6	57.0			
FH	(60°-80°)	2475.0	25.8			G2/5000
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	160.8	1.7	B1/500		
BM	(30°-60°)	223.2	2.3	B1/1000		
BH	(60°-80°)	92.2	1.0	B0/110		G0/110
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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6
2.5°	1216.0	1188.7	1195.0	1177.3	1145.3	1079.7	1023.7	970.7	908.9	906.8	855.8
5°	1639.7	1616.6	1613.7	1577.9	1519.8	1408.3	1299.8	1176.1	1038.0	1027.9	919.8
7.5°	2024.3	2005.8	1999.1	1956.6	1848.4	1739.9	1598.5	1416.7	1200.9	1182.4	1006.1
10°	2319.7	2310.9	2312.6	2282.3	2189.7	2088.7	1903.1	1671.3	1385.6	1357.0	1109.6
12.5°	2543.6	2545.7	2560.8	2542.3	2490.5	2415.6	2217.5	1942.7	1590.1	1551.0	1227.8
15°	2708.1	2718.6	2746.4	2769.5	2765.7	2700.9	2519.2	2218.3	1807.2	1763.9	1359.5
17.5°	2814.5	2826.3	2866.7	2918.0	2965.2	2950.0	2810.3	2484.2	2026.9	1976.8	1500.5
20°	2907.9	2921.8	2965.2	3032.9	3120.9	3139.8	3048.1	2742.2	2246.1	2185.1	1646.1
22.5°	3110.3	3109.9	3136.4	3176.0	3259.7	3308.5	3250.5	2981.6	2462.8	2399.2	1794.6
25°	3476.4	3462.5	3453.3	3422.1	3440.6	3470.9	3438.5	3205.4	2680.7	2616.4	1945.2
27.5°	3911.5	3919.9	3845.0	3761.3	3696.5	3665.3	3612.3	3412.9	2890.3	2819.6	2092.5
30°	4370.5	4373.1	4284.7	4177.8	4035.2	3917.0	3825.2	3611.1	3105.7	3028.7	2235.6
32.5°	4784.6	4768.2	4680.7	4535.1	4355.0	4222.0	4031.4	3832.4	3333.8	3259.3	2394.6
35°	5112.8	5093.4	4987.0	4854.4	4667.6	4533.8	4304.5	4053.3	3573.6	3500.8	2554.1
37.5°	5352.6	5329.9	5220.5	5084.2	4923.0	4845.2	4621.3	4293.5	3835.3	3757.1	2722.0
40°	5435.9	5416.2	5347.6	5247.9	5118.3	5100.6	4957.5	4570.0	4120.2	4036.9	2912.2
42.5°	5386.3	5366.9	5342.5	5308.9	5255.0	5271.8	5274.8	4885.2	4436.6	4354.6	3122.1
45°	5189.4	5172.1	5197.4	5246.6	5313.5	5396.8	5564.3	5223.9	4790.1	4702.5	3364.9
47.5°	4899.5	4886.8	4956.7	5079.5	5275.2	5504.9	5828.9	5579.8	5186.8	5105.6	3667.9
50°	4487.1	4485.0	4624.7	4849.0	5149.8	5557.1	6102.4	5984.6	5738.1	5652.6	4089.1
52.5°	3845.0	3849.2	4124.0	4482.9	4929.8	5521.8	6278.3	6504.7	6379.3	6290.5	4453.9
55°	3233.6	3258.9	3453.7	3971.2	4592.3	5390.5	6338.9	6747.5	6733.2	6649.0	4656.7
57.5°	2634.9	2680.7	2868.4	3351.9	4099.6	5088.0	6305.7	6852.7	6996.6	6932.2	4924.3
60°	1986.0	2007.1	2223.4	2675.3	3467.2	4535.9	6064.6	6909.9	7356.8	7312.2	5312.7
62.5°	1263.6	1316.2	1508.0	1944.0	2699.7	3769.3	5658.1	6909.1	7807.4	7831.8	5813.8
65°	665.7	727.1	828.9	1204.7	1855.2	2913.0	5046.7	6844.3	8360.3	8394.4	6205.5
67.5°	358.9	376.6	430.4	625.3	1075.9	1973.4	4148.4	6524.5	8680.5	8725.5	6260.2
70°	262.6	272.2	292.4	345.9	541.5	1146.2	3027.0	5799.5	8267.7	8250.9	5562.2
72.5°	201.5	216.7	231.8	253.3	311.4	611.8	1884.6	4541.4	6596.8	6485.8	4157.6
75°	159.1	161.6	183.0	202.4	233.5	348.4	836.9	2645.0	4026.4	3763.4	2156.0
77.5°	127.1	128.8	141.4	158.2	187.7	228.9	259.2	1040.6	1285.5	1147.0	467.9
80°	75.3	79.5	105.2	122.0	155.7	144.3	94.7	226.0	200.7	181.8	78.7
82.5°	42.1	45.4	59.3	96.4	108.6	69.0	47.1	61.0	47.1	45.9	22.3
85°	0.0	2.1	38.3	59.7	44.2	15.1	19.8	20.2	13.9	13.0	8.8
87.5°	0.0	0.0	11.8	11.4	1.7	2.5	4.6	6.7	5.5	5.5	4.6
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°	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6	814.6
2.5°	830.6	807.9	765.0	722.9	687.5	658.5	632.4	621.9	613.5	612.2	605.5
5°	867.6	821.8	739.7	672.4	627.4	595.4	568.0	551.2	538.2	533.1	528.5
7.5°	923.6	854.2	736.3	658.9	605.1	551.2	500.7	446.0	411.9	398.9	391.3
10°	991.8	897.1	749.0	655.1	560.9	447.3	363.5	294.1	265.9	256.7	254.1
12.5°	1071.3	950.5	770.9	631.6	466.6	317.7	250.8	227.2	220.9	218.0	218.0
15°	1162.6	1009.0	786.4	563.4	345.0	240.3	217.1	206.2	199.4	195.7	196.1
17.5°	1256.0	1066.2	778.8	464.5	254.6	213.8	196.5	184.7	175.5	171.7	170.8
20°	1350.3	1119.3	736.8	345.9	215.4	194.0	174.6	161.6	152.3	148.5	147.7
22.5°	1447.9	1164.3	662.7	253.7	193.6	172.1	153.2	140.1	131.3	127.9	126.2
25°	1543.0	1200.9	559.2	205.3	172.9	151.5	133.4	121.2	113.2	109.8	109.4
27.5°	1631.7	1224.0	439.3	181.4	154.8	133.0	116.6	105.6	98.9	96.4	95.9
30°	1711.7	1226.1	324.8	163.7	138.9	117.0	101.8	92.1	86.3	83.7	82.9
32.5°	1792.5	1208.5	236.5	147.7	124.1	103.1	88.4	80.8	76.6	74.5	74.5
35°	1868.6	1167.6	184.3	133.8	109.8	89.6	77.8	72.4	69.8	67.7	67.7
37.5°	1943.1	1109.2	156.5	121.6	96.4	78.3	68.6	65.2	63.1	61.0	61.0
40°	2018.9	1035.5	142.2	110.2	85.4	69.4	61.0	58.1	56.0	54.3	53.9
42.5°	2111.8	950.5	133.0	99.7	75.7	61.4	53.9	50.5	48.8	47.1	46.3
45°	2219.6	877.3	125.4	89.2	67.7	54.7	46.7	43.3	40.8	38.7	38.3
47.5°	2374.8	824.3	115.3	77.8	60.2	47.5	40.4	36.6	32.8	30.7	30.3
50°	2573.0	780.5	102.2	67.7	52.6	40.4	33.7	29.0	25.7	23.6	23.6
52.5°	2671.5	723.3	90.5	58.9	44.2	34.1	27.4	21.9	20.2	18.1	18.1
55°	2711.0	679.5	78.7	50.1	36.6	28.2	21.5	16.8	15.6	14.3	13.9
57.5°	2822.1	666.9	68.6	42.5	30.3	22.3	16.4	12.6	11.8	10.1	10.1
60°	3000.9	673.2	59.3	36.2	24.4	17.3	12.2	9.7	8.8	7.2	7.2
62.5°	3194.1	665.2	50.1	31.1	18.9	12.6	8.4	7.2	7.2	4.2	3.8
65°	3231.1	592.4	42.9	25.7	14.7	9.3	5.5	4.6	6.3	0.8	0.0
67.5°	2998.8	459.5	37.0	19.8	10.9	7.2	4.2	2.1	5.5	0.0	0.0
70°	2398.0	292.0	29.9	14.3	8.4	5.9	3.4	0.8	4.2	0.0	0.0
72.5°	1695.7	169.6	23.6	10.1	7.2	4.6	2.5	0.0	2.5	0.0	0.0
75°	857.5	90.5	14.7	7.6	5.5	3.4	1.7	0.0	0.4	0.0	0.0
77.5°	185.6	42.1	9.3	5.5	3.8	2.1	0.8	0.0	0.0	0.0	0.0
80°	40.4	18.5	5.9	3.4	2.1	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	9.7	2.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	5.0	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.7	0.4	0.4	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)