

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: P321437

Luminaire Tested: **GAN-SA3B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321437
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-SA3B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 11190 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

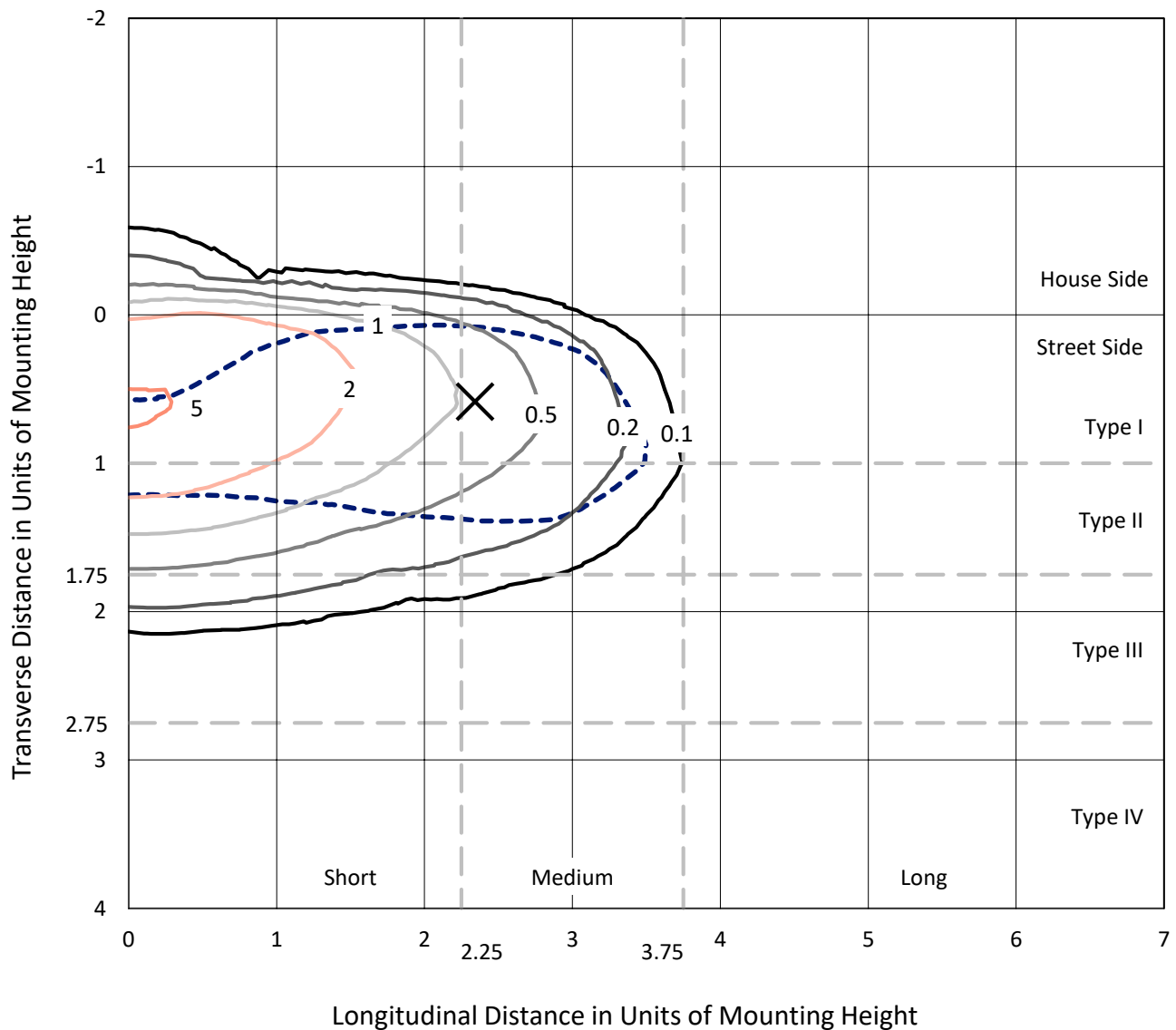
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

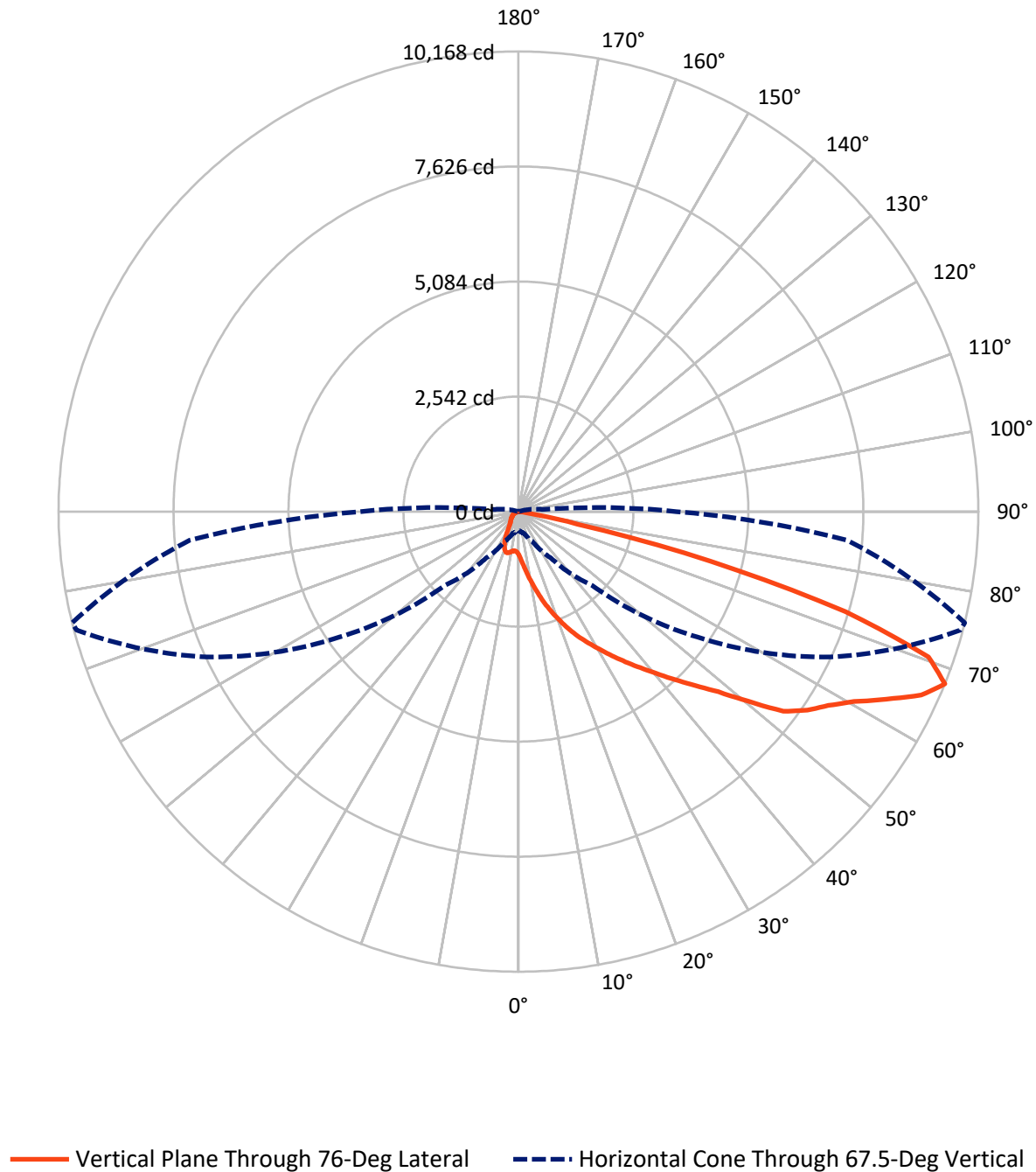
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	555.7	0.0	555.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10634.3	0.0	10634.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	11190.0	0.0	11190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.1
10°-20°	467.9	4.2
20°-30°	952.0	8.5
30°-40°	1652.4	14.8
40°-50°	2334.7	20.9
50°-60°	2647.6	23.7
60°-70°	2196.0	19.6
70°-80°	795.4	7.1
80°-90°	25.8	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°	11190.0	100.0
0°-180°	11190.0	100.0

Coefficient of Utilization



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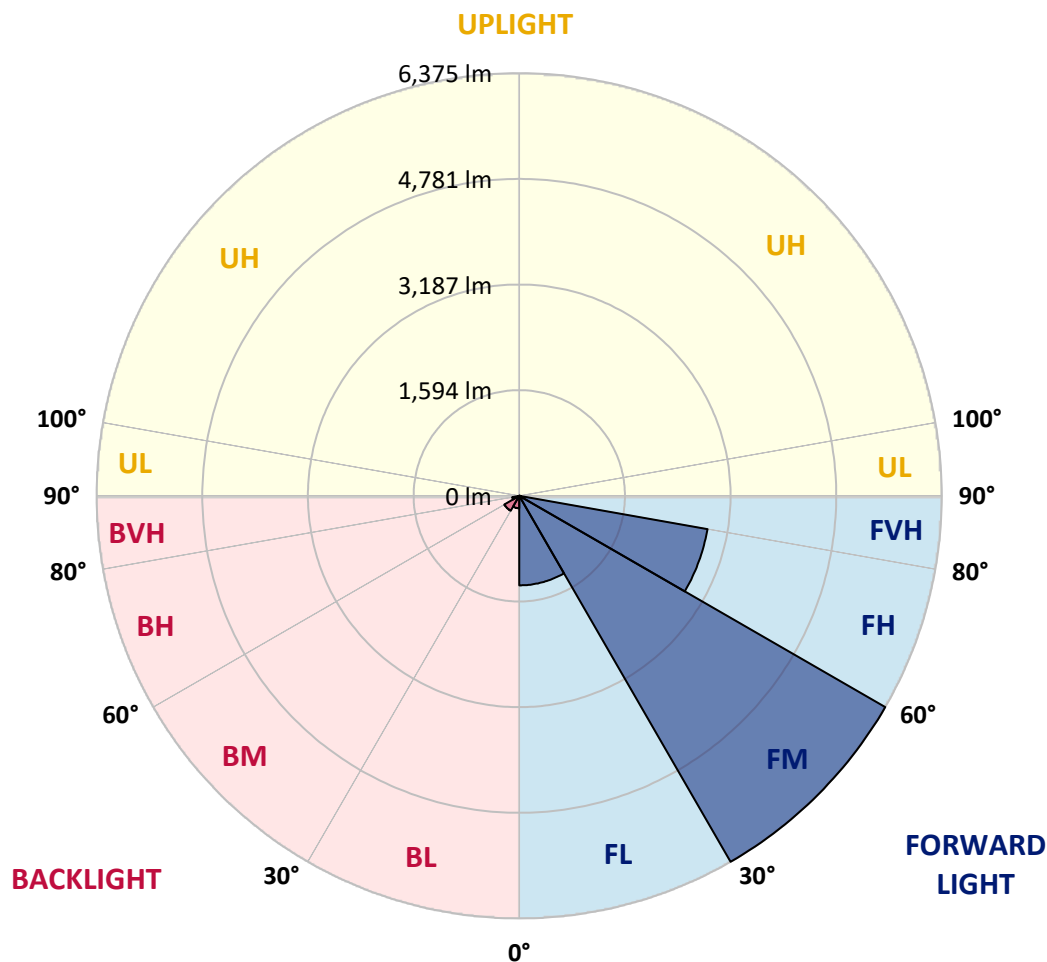
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.6	12.1			
FM	(30°-60°)	6374.7	57.0			
FH	(60°-80°)	2884.0	25.8			G2/5000
FVH	(80°-90°)	25.0	0.2			G1/100
BL	(0°-30°)	187.4	1.7	B1/500		
BM	(30°-60°)	260.1	2.3	B1/1000		
BH	(60°-80°)	107.4	1.0	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: 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°	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2
2.5°	1417.0	1385.1	1392.5	1371.9	1334.6	1258.1	1192.9	1131.1	1059.1	1056.6	997.3
5°	1910.7	1883.8	1880.3	1838.7	1771.0	1641.1	1514.6	1370.4	1209.6	1197.8	1071.8
7.5°	2358.9	2337.3	2329.5	2279.9	2153.9	2027.4	1862.7	1650.9	1399.3	1377.8	1172.3
10°	2703.1	2692.8	2694.7	2659.4	2551.6	2433.9	2217.7	1947.5	1614.6	1581.2	1292.9
12.5°	2963.9	2966.4	2984.0	2962.4	2902.1	2814.9	2583.9	2263.8	1852.9	1807.3	1430.7
15°	3155.6	3167.9	3200.2	3227.2	3222.8	3147.3	2935.5	2584.9	2105.9	2055.4	1584.2
17.5°	3279.7	3293.4	3340.5	3400.3	3455.2	3437.5	3274.8	2894.8	2361.8	2303.5	1748.4
20°	3388.5	3404.7	3455.2	3534.1	3636.6	3658.7	3551.8	3195.3	2617.3	2546.2	1918.1
22.5°	3624.4	3623.9	3654.8	3700.8	3798.4	3855.3	3787.6	3474.3	2869.8	2795.7	2091.2
25°	4050.9	4034.7	4024.0	3987.7	4009.2	4044.5	4006.8	3735.2	3123.8	3048.7	2266.7
27.5°	4557.9	4567.7	4480.4	4382.9	4307.4	4271.1	4209.3	3976.9	3367.9	3285.6	2438.3
30°	5092.8	5095.8	4992.8	4868.3	4702.1	4564.3	4457.4	4207.8	3619.0	3529.2	2605.0
32.5°	5575.3	5556.2	5454.2	5284.5	5074.7	4919.7	4697.6	4465.7	3884.7	3797.9	2790.3
35°	5957.7	5935.2	5811.1	5656.7	5439.0	5283.1	5015.8	4723.1	4164.2	4079.4	2976.2
37.5°	6237.2	6210.7	6083.3	5924.4	5736.6	5645.9	5385.1	5003.1	4469.2	4378.0	3171.8
40°	6334.3	6311.2	6231.3	6115.1	5964.1	5943.5	5776.8	5325.2	4801.1	4704.0	3393.4
42.5°	6276.4	6253.9	6225.4	6186.2	6123.5	6143.1	6146.5	5692.5	5169.8	5074.2	3638.1
45°	6047.0	6026.9	6056.3	6113.6	6191.6	6288.7	6483.8	6087.2	5581.7	5479.7	3921.0
47.5°	5709.1	5694.4	5775.8	5919.0	6147.0	6414.7	6792.2	6502.0	6044.0	5949.4	4274.0
50°	5228.6	5226.2	5389.0	5650.3	6000.9	6475.5	7110.9	6973.6	6686.3	6586.8	4764.8
52.5°	4480.4	4485.3	4805.5	5223.7	5744.4	6434.3	7315.9	7579.7	7433.6	7330.1	5189.9
55°	3768.0	3797.4	4024.4	4627.5	5351.2	6281.3	7386.5	7862.6	7845.9	7747.8	5426.2
57.5°	3070.3	3123.8	3342.4	3905.8	4777.1	5928.8	7347.8	7985.2	8152.8	8077.8	5738.1
60°	2314.3	2338.8	2590.8	3117.4	4040.1	5285.5	7066.8	8051.8	8572.5	8520.6	6190.6
62.5°	1472.4	1533.7	1757.3	2265.2	3145.8	4392.2	6593.2	8050.9	9097.7	9126.1	6774.6
65°	775.7	847.3	965.9	1403.8	2161.8	3394.4	5880.8	7975.3	9741.9	9781.6	7231.1
67.5°	418.2	438.8	501.6	728.6	1253.7	2299.5	4833.9	7602.7	10115.1	10167.5	7294.8
70°	306.0	317.2	340.8	403.0	631.0	1335.6	3527.3	6757.9	9634.1	9614.4	6481.4
72.5°	234.9	252.5	270.2	295.2	362.8	712.9	2196.1	5291.9	7687.0	7557.6	4844.7
75°	185.3	188.3	213.3	235.8	272.1	406.0	975.2	3082.1	4691.8	4385.3	2512.3
77.5°	148.1	150.0	164.7	184.4	218.7	266.7	302.0	1212.5	1497.9	1336.6	545.2
80°	87.8	92.7	122.6	142.2	181.4	168.2	110.3	263.3	233.9	211.8	91.7
82.5°	49.0	53.0	69.1	112.3	126.5	80.4	54.9	71.1	54.9	53.4	26.0
85°	0.0	2.5	44.6	69.6	51.5	17.7	23.0	23.5	16.2	15.2	10.3
87.5°	0.0	0.0	13.7	13.2	2.0	2.9	5.4	7.8	6.4	6.4	5.4
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°	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2	949.2
2.5°	967.9	941.4	891.4	842.3	801.2	767.3	736.9	724.7	714.9	713.4	705.6
5°	1011.0	957.6	862.0	783.5	731.0	693.8	661.9	642.3	627.1	621.2	615.8
7.5°	1076.2	995.3	858.0	767.8	705.1	642.3	583.5	519.7	480.0	464.8	456.0
10°	1155.7	1045.3	872.7	763.4	653.6	521.2	423.6	342.7	309.9	299.1	296.1
12.5°	1248.3	1107.6	898.2	736.0	543.8	370.2	292.2	264.8	257.4	254.0	254.0
15°	1354.7	1175.8	916.4	656.5	402.1	280.0	253.0	240.3	232.4	228.0	228.5
17.5°	1463.6	1242.4	907.6	541.3	296.6	249.1	229.0	215.2	204.5	200.0	199.1
20°	1573.4	1304.2	858.5	403.0	251.0	226.0	203.5	188.3	177.5	173.1	172.1
22.5°	1687.1	1356.7	772.2	295.7	225.5	200.5	178.5	163.3	153.0	149.1	147.1
25°	1798.0	1399.3	651.6	239.3	201.5	176.5	155.4	141.2	131.9	128.0	127.5
27.5°	1901.4	1426.3	511.9	211.3	180.4	154.9	135.8	123.1	115.2	112.3	111.8
30°	1994.6	1428.8	378.5	190.7	161.8	136.3	118.7	107.4	100.5	97.6	96.6
32.5°	2088.7	1408.2	275.6	172.1	144.6	120.1	103.0	94.1	89.2	86.8	86.8
35°	2177.5	1360.6	214.8	155.9	128.0	104.4	90.7	84.3	81.4	78.9	78.9
37.5°	2264.2	1292.5	182.4	141.7	112.3	91.2	79.9	76.0	73.5	71.1	71.1
40°	2352.5	1206.6	165.7	128.5	99.5	80.9	71.1	67.7	65.2	63.2	62.8
42.5°	2460.9	1107.6	154.9	116.2	88.3	71.6	62.8	58.8	56.9	54.9	53.9
45°	2586.4	1022.3	146.1	103.9	78.9	63.7	54.4	50.5	47.6	45.1	44.6
47.5°	2767.3	960.5	134.3	90.7	70.1	55.4	47.1	42.7	38.2	35.8	35.3
50°	2998.2	909.5	119.1	78.9	61.3	47.1	39.2	33.8	29.9	27.5	27.5
52.5°	3113.0	842.8	105.4	68.6	51.5	39.7	31.9	25.5	23.5	21.1	21.1
55°	3159.1	791.8	91.7	58.3	42.7	32.9	25.0	19.6	18.1	16.7	16.2
57.5°	3288.5	777.1	79.9	49.5	35.3	26.0	19.1	14.7	13.7	11.8	11.8
60°	3496.9	784.5	69.1	42.2	28.4	20.1	14.2	11.3	10.3	8.3	8.3
62.5°	3721.9	775.2	58.3	36.3	22.1	14.7	9.8	8.3	8.3	4.9	4.4
65°	3765.1	690.4	50.0	29.9	17.2	10.8	6.4	5.4	7.4	1.0	0.0
67.5°	3494.4	535.4	43.1	23.0	12.7	8.3	4.9	2.5	6.4	0.0	0.0
70°	2794.3	340.3	34.8	16.7	9.8	6.9	3.9	1.0	4.9	0.0	0.0
72.5°	1975.9	197.6	27.5	11.8	8.3	5.4	2.9	0.0	2.9	0.0	0.0
75°	999.2	105.4	17.2	8.8	6.4	3.9	2.0	0.0	0.5	0.0	0.0
77.5°	216.2	49.0	10.8	6.4	4.4	2.5	1.0	0.0	0.0	0.0	0.0
80°	47.1	21.6	6.9	3.9	2.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.2	11.3	3.4	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	5.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.0	0.5	0.5	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)