

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: P323678

Luminaire Tested: **GAN-SA4B-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15650 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

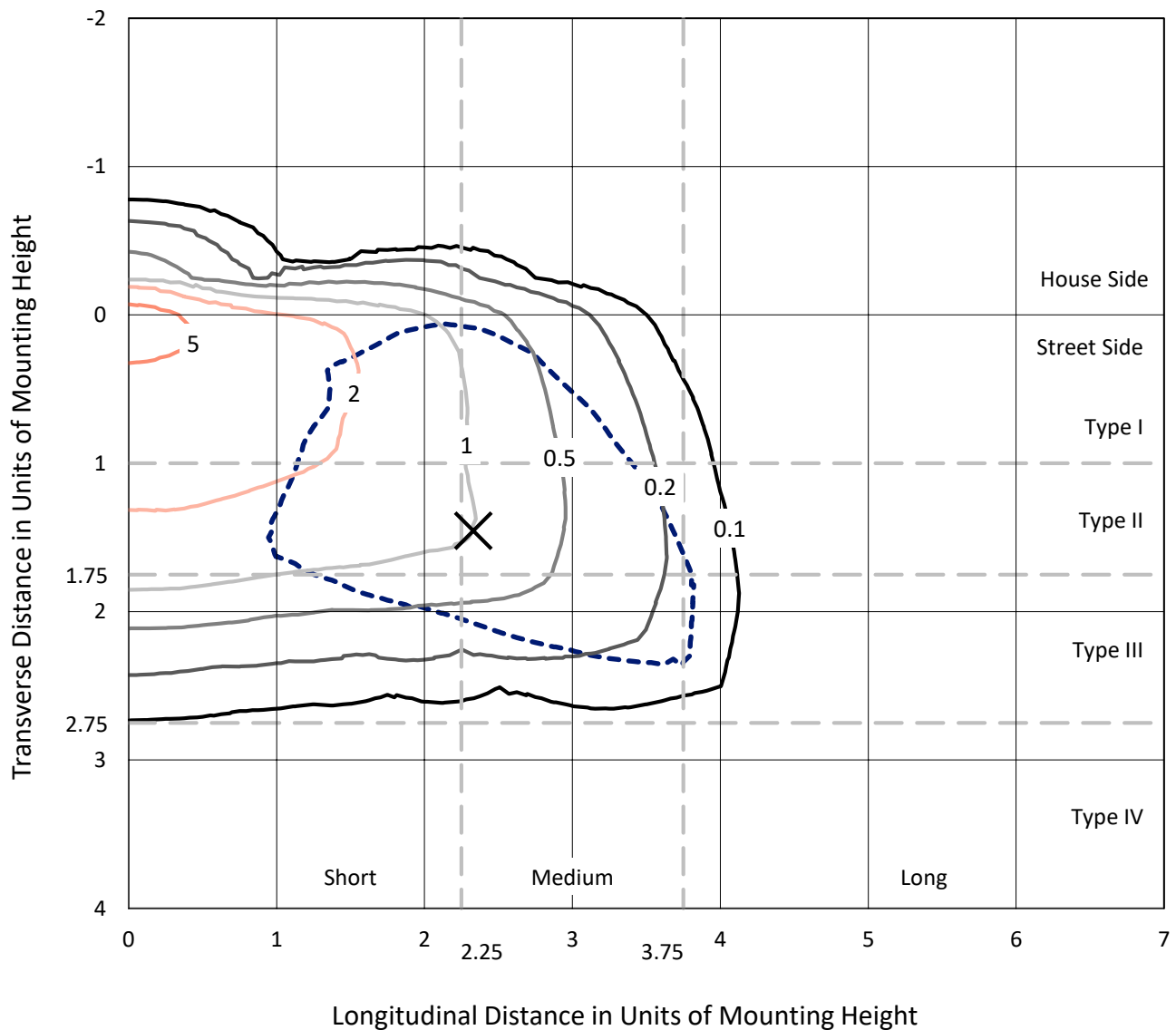
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

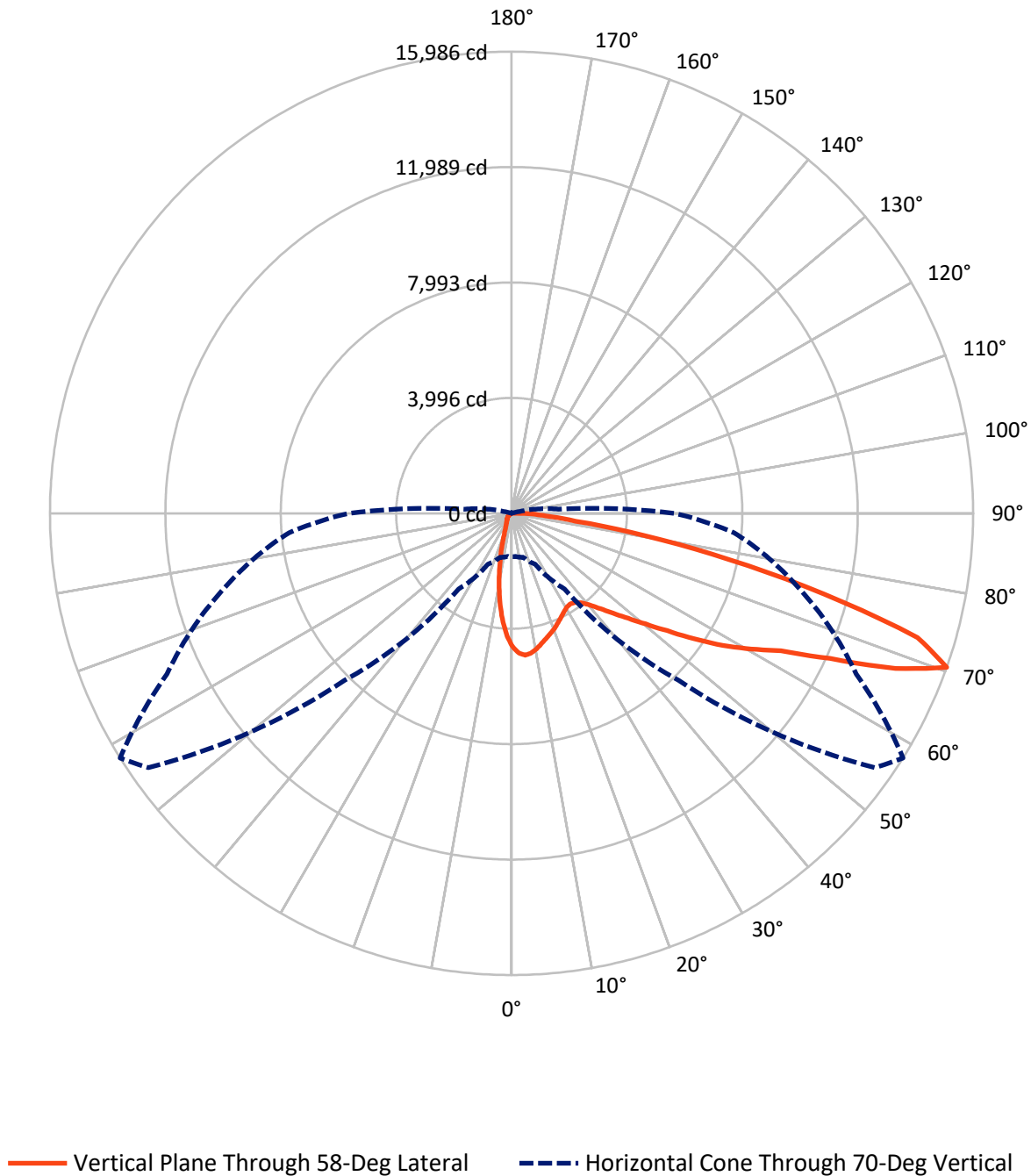
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.3	0.0	1339.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	14310.7	0.0	14310.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	15650.0	0.0	15650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	2.4
10°-20°	793.4	5.1
20°-30°	1043.1	6.7
30°-40°	1381.4	8.8
40°-50°	2064.8	13.2
50°-60°	3307.7	21.1
60°-70°	4169.4	26.6
70°-80°	2248.9	14.4
80°-90°	263.2	1.7
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°	15650.0	100.0
0°-180°	15650.0	100.0

Coefficient of Utilization



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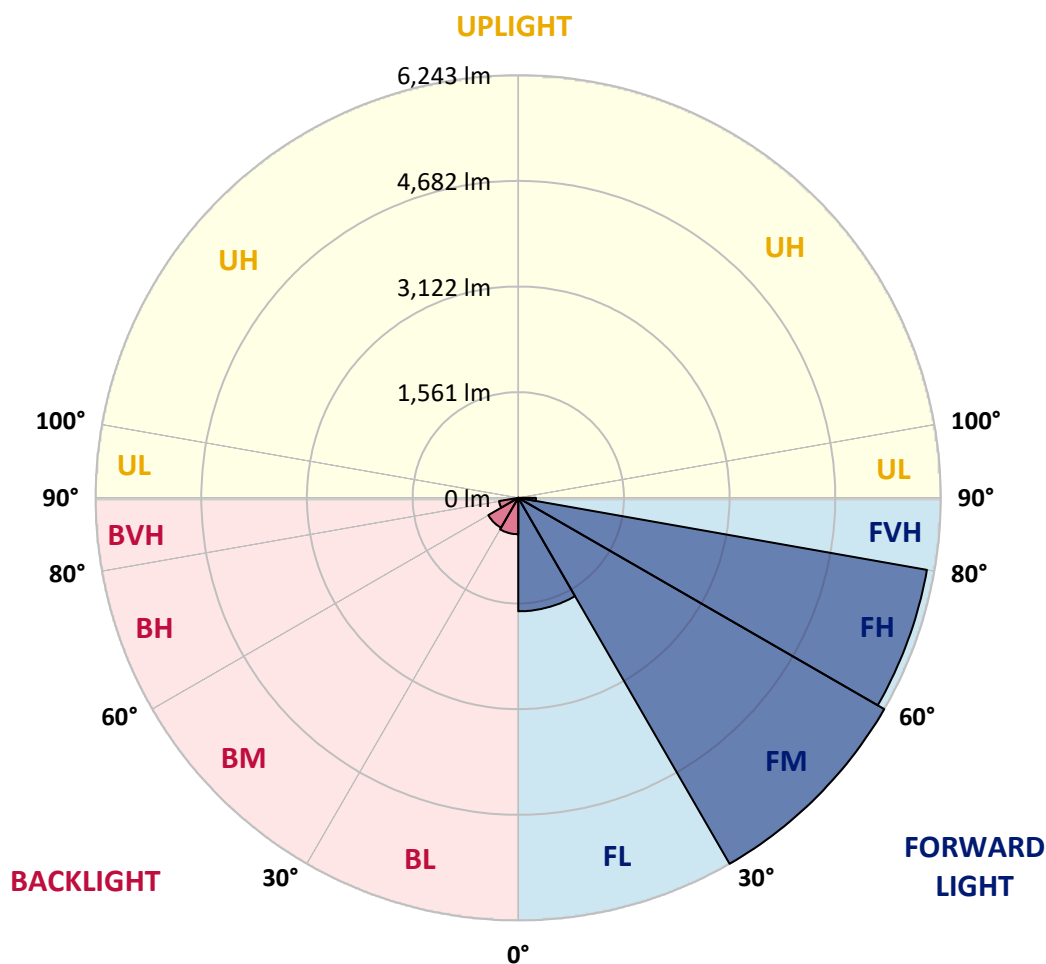
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1676.4	10.7			
FM	(30°-60°)	6243.0	39.9			
FH	(60°-80°)	6130.3	39.2			G3/7500
FVH	(80°-90°)	261.0	1.7			G3/500
BL	(0°-30°)	538.1	3.4	B2/1000		
BM	(30°-60°)	510.9	3.3	B1/1000		
BH	(60°-80°)	288.0	1.8	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9
2.5°	5006.2	4993.9	4989.3	4981.5	4951.6	4922.3	4864.4	4848.1	4811.7	4725.1	4633.3
5°	5010.1	5009.5	5023.1	5019.9	5009.5	4995.8	4954.2	4932.7	4870.9	4747.2	4579.3
7.5°	4768.7	4781.1	4811.7	4836.4	4865.0	4902.1	4907.3	4886.5	4835.7	4702.3	4479.8
10°	4444.6	4464.2	4507.1	4555.9	4630.7	4704.9	4771.3	4768.7	4751.1	4619.7	4360.0
12.5°	4119.9	4142.7	4192.1	4264.4	4370.4	4491.5	4609.9	4626.2	4655.5	4545.5	4249.4
15°	3835.5	3855.0	3903.9	3992.4	4123.8	4286.5	4460.2	4490.2	4565.7	4487.6	4157.0
17.5°	3594.1	3606.5	3642.3	3740.5	3892.8	4090.0	4315.8	4374.3	4486.9	4442.0	4077.0
20°	3425.6	3427.5	3450.9	3519.9	3672.2	3892.8	4166.1	4250.1	4403.6	4403.0	3994.3
22.5°	3342.3	3335.8	3340.3	3380.0	3491.9	3704.7	4016.4	4116.0	4328.8	4369.8	3910.4
25°	3326.6	3321.4	3308.4	3313.6	3381.3	3540.1	3865.5	3980.6	4263.1	4349.6	3837.5
27.5°	3375.4	3380.7	3358.5	3335.1	3340.3	3433.4	3731.4	3864.8	4209.7	4349.6	3786.1
30°	3473.7	3476.3	3460.0	3429.5	3388.5	3403.4	3638.3	3771.8	4183.0	4379.6	3753.5
32.5°	3582.4	3596.7	3594.7	3570.0	3511.5	3450.9	3616.2	3737.9	4181.1	4445.9	3750.3
35°	3717.1	3733.4	3760.7	3755.5	3694.3	3594.7	3691.7	3787.4	4219.5	4555.3	3785.4
37.5°	3860.3	3885.0	3943.6	3971.5	3931.8	3819.3	3860.9	3929.2	4322.3	4732.3	3874.6
40°	3998.9	4026.8	4133.6	4243.5	4213.6	4097.8	4117.3	4172.0	4505.1	4986.7	4043.8
42.5°	4134.9	4176.5	4333.4	4514.3	4550.1	4457.6	4468.1	4511.7	4776.5	5336.8	4320.3
45°	4297.6	4344.4	4576.7	4799.9	4895.6	4855.3	4899.5	4928.1	5131.2	5799.5	4693.2
47.5°	4536.4	4590.4	4875.4	5129.9	5297.8	5323.8	5412.9	5431.8	5579.5	6338.3	5179.3
50°	5002.3	5017.3	5275.0	5506.0	5748.1	5904.3	6005.8	6020.1	6122.3	6927.2	5786.5
52.5°	5588.7	5598.4	5744.2	5899.1	6174.3	6493.2	6730.7	6750.9	6772.4	7501.2	6385.8
55°	6171.1	6169.8	6266.1	6357.2	6672.2	7135.5	7650.9	7663.2	7509.0	8045.9	6843.9
57.5°	6534.8	6570.0	6716.4	6833.5	7273.4	7867.6	8582.8	8628.3	8282.8	8449.4	7296.9
60°	6419.0	6435.9	6760.7	7194.1	8022.5	8908.1	9525.7	9537.4	8864.5	8852.2	7869.5
62.5°	5468.9	5478.0	5988.2	6881.7	8401.8	10257.8	10663.2	10472.5	9533.5	9411.2	8554.8
65°	3748.3	3807.5	4233.8	5338.1	7704.9	11104.4	12424.1	12108.5	10553.2	10216.8	9174.3
67.5°	2207.3	2195.0	2405.8	3219.3	5658.9	10542.2	14651.7	14338.0	11943.9	10756.3	8992.7
70°	1507.8	1499.3	1580.0	1949.0	3194.5	8178.0	15352.5	15985.7	13171.9	10393.1	7739.4
72.5°	1076.3	1080.9	1200.0	1514.3	2005.6	4764.8	13202.4	14701.1	12787.3	9060.4	5882.8
75°	730.8	743.2	913.7	1242.3	1758.3	2424.0	9368.9	11175.3	10412.7	6585.0	3381.3
77.5°	393.1	406.7	607.8	1000.9	1589.8	1684.1	6026.6	7691.2	6540.7	2960.3	980.0
80°	164.0	171.8	284.4	727.5	1373.7	1479.2	3545.9	4663.9	2787.2	583.7	218.7
82.5°	70.9	74.8	118.4	434.1	1026.9	1248.8	1877.4	2243.8	844.7	128.2	110.0
85°	13.7	14.3	48.8	229.7	655.3	704.8	1216.9	1192.8	379.4	55.3	80.0
87.5°	0.0	0.0	11.7	72.2	192.6	383.9	742.5	733.4	128.8	26.7	29.9
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°	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9
2.5°	4586.5	4541.6	4447.2	4330.7	4241.6	4143.3	4065.2	3966.3	3923.4	3925.3	3901.9
5°	4483.7	4391.3	4182.4	3918.8	3715.8	3506.2	3326.0	3146.4	3040.3	3005.8	2973.3
7.5°	4336.6	4190.2	3857.0	3450.9	3107.3	2771.5	2479.4	2222.3	2059.6	1980.2	1951.0
10°	4170.7	3965.0	3482.8	2947.9	2457.2	2003.0	1624.3	1295.0	1163.5	1074.4	1051.6
12.5°	4024.9	3746.4	3117.1	2431.9	1849.4	1301.5	940.3	735.3	646.2	611.1	605.2
15°	3887.6	3542.0	2765.0	1964.6	1280.7	801.1	598.0	528.4	507.6	501.7	501.7
17.5°	3758.1	3347.5	2420.8	1504.5	847.3	561.6	495.2	479.6	473.1	472.4	473.1
20°	3622.7	3152.9	2082.4	1102.4	591.5	475.7	457.5	449.0	447.1	447.1	447.1
22.5°	3493.2	2958.3	1753.1	787.4	474.4	434.1	424.9	419.1	417.1	416.5	415.2
25°	3368.9	2773.5	1431.7	556.4	416.5	397.6	389.8	382.0	376.1	372.9	370.9
27.5°	3266.8	2608.9	1132.3	446.4	376.1	359.9	350.1	338.4	324.1	317.6	315.0
30°	3185.4	2458.5	872.7	376.8	338.4	322.1	307.2	287.0	266.2	255.1	254.4
32.5°	3121.7	2310.8	662.5	333.2	304.6	284.4	262.9	237.5	213.4	201.1	200.4
35°	3090.4	2180.7	506.3	301.3	274.6	249.2	222.6	194.6	171.1	159.4	158.1
37.5°	3111.2	2070.7	395.0	274.6	249.2	220.0	188.7	159.4	138.6	128.2	127.5
40°	3187.4	2000.4	320.8	251.8	227.8	192.0	158.1	130.8	113.2	104.8	104.1
42.5°	3349.4	1974.4	274.0	233.0	206.9	165.9	131.5	108.0	91.8	85.9	84.6
45°	3620.1	2012.8	242.1	214.7	185.5	141.2	108.7	88.5	74.2	69.6	69.0
47.5°	3980.6	2113.6	219.3	197.2	165.9	119.1	90.5	71.6	60.5	56.0	55.3
50°	4445.3	2273.7	200.4	179.6	147.7	100.9	74.8	56.6	46.9	43.6	43.6
52.5°	4950.9	2464.4	183.5	163.3	129.5	83.9	60.5	43.6	37.1	33.2	33.2
55°	5368.7	2631.0	165.3	151.0	107.4	69.6	46.2	33.2	27.3	25.4	25.4
57.5°	5785.8	2808.6	144.5	129.5	85.9	56.6	35.1	24.7	20.2	18.9	18.9
60°	6326.6	3026.0	124.3	105.4	67.7	42.9	26.0	17.6	15.0	14.3	14.3
62.5°	6921.4	3153.5	106.1	84.6	52.7	31.9	18.9	11.7	11.1	11.1	10.4
65°	7285.2	2973.3	89.2	67.7	41.0	24.1	12.4	8.5	9.8	9.1	7.8
67.5°	6821.2	2327.7	72.9	52.7	31.9	18.2	7.8	5.9	10.4	8.5	6.5
70°	5647.9	1629.5	56.6	37.1	25.4	15.6	5.2	3.9	11.1	8.5	5.2
72.5°	4226.6	1090.7	44.9	24.7	18.9	13.7	4.6	2.0	9.8	7.2	4.6
75°	2309.5	439.3	35.8	15.6	11.7	9.8	3.3	1.3	6.5	5.2	3.3
77.5°	607.8	115.8	26.0	10.4	6.5	3.9	2.0	0.7	3.3	2.6	1.3
80°	154.9	44.9	16.9	7.2	4.6	2.0	0.0	0.0	0.7	0.0	0.0
82.5°	82.6	18.9	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	62.5	12.4	5.9	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.1	3.9	2.0	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)