

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: P321192

Luminaire Tested: **GAN-SA8A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321192
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-SA8A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 25211 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

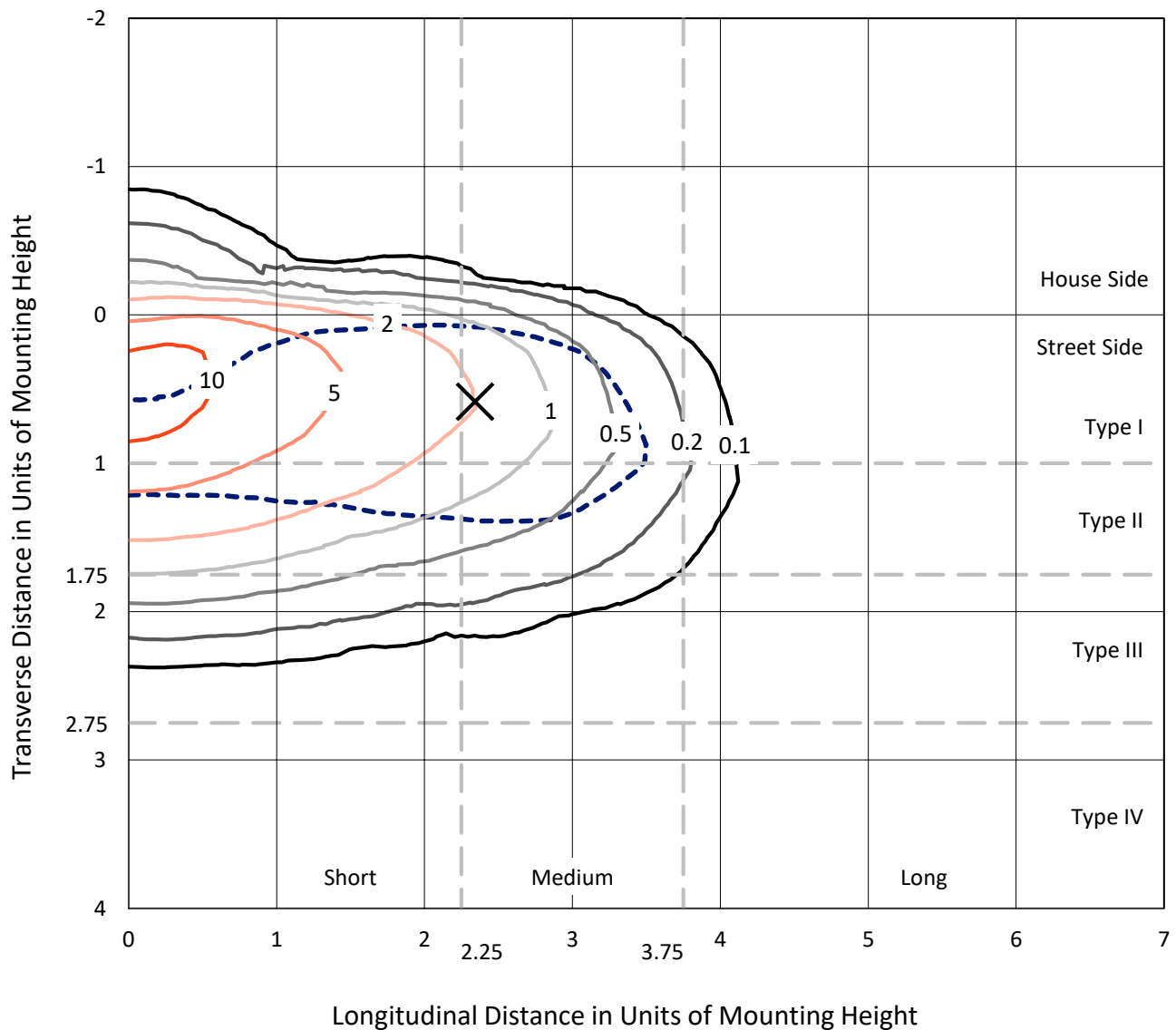
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

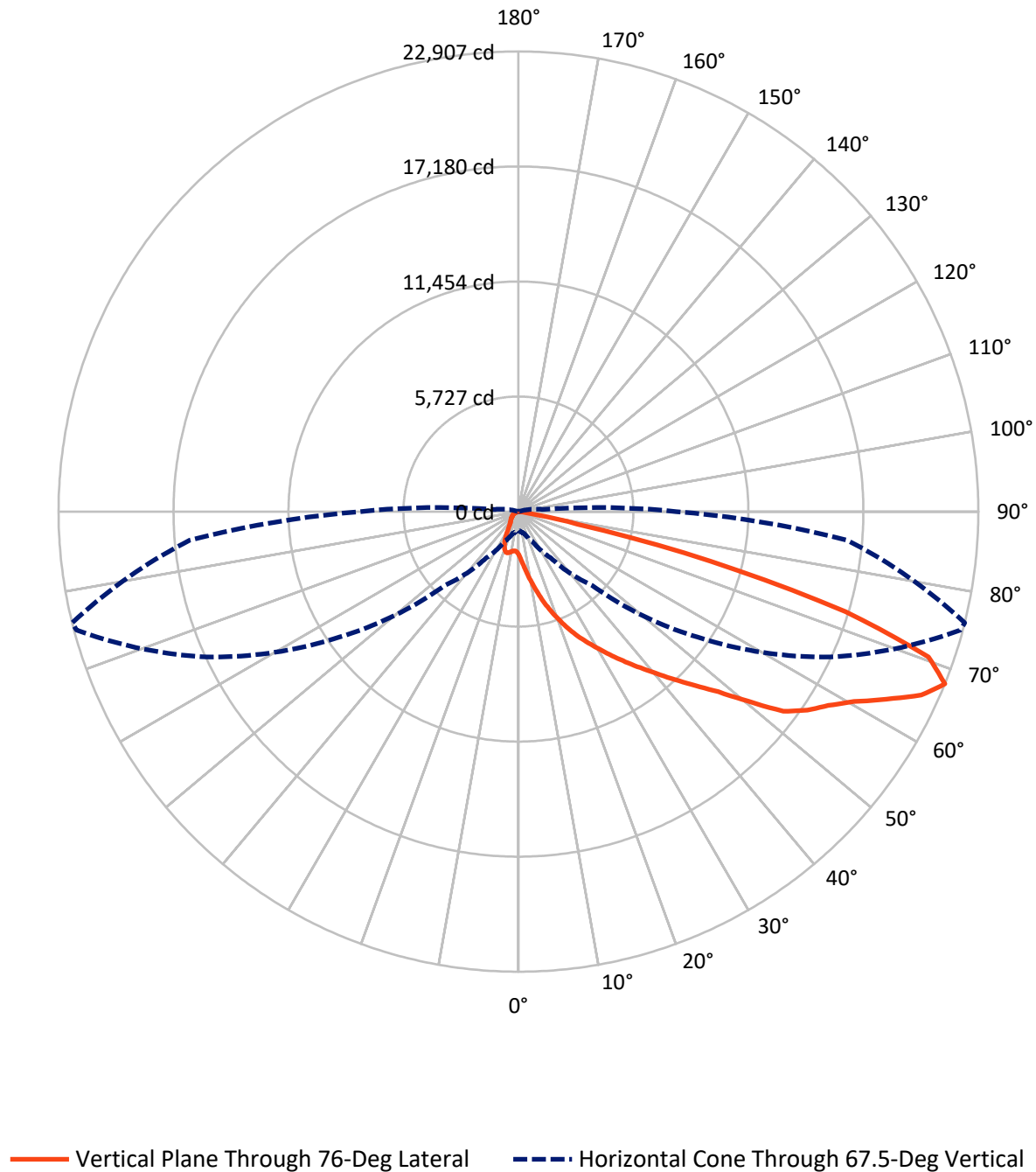
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	1251.9	0.0	1251.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23959.1	0.0	23959.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	25211.0	0.0	25211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.1
10°-20°	1054.2	4.2
20°-30°	2145.0	8.5
30°-40°	3722.9	14.8
40°-50°	5260.0	20.9
50°-60°	5965.1	23.7
60°-70°	4947.5	19.6
70°-80°	1792.1	7.1
80°-90°	58.1	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°	25211.0	100.0
0°-180°	25211.0	100.0

Coefficient of Utilization



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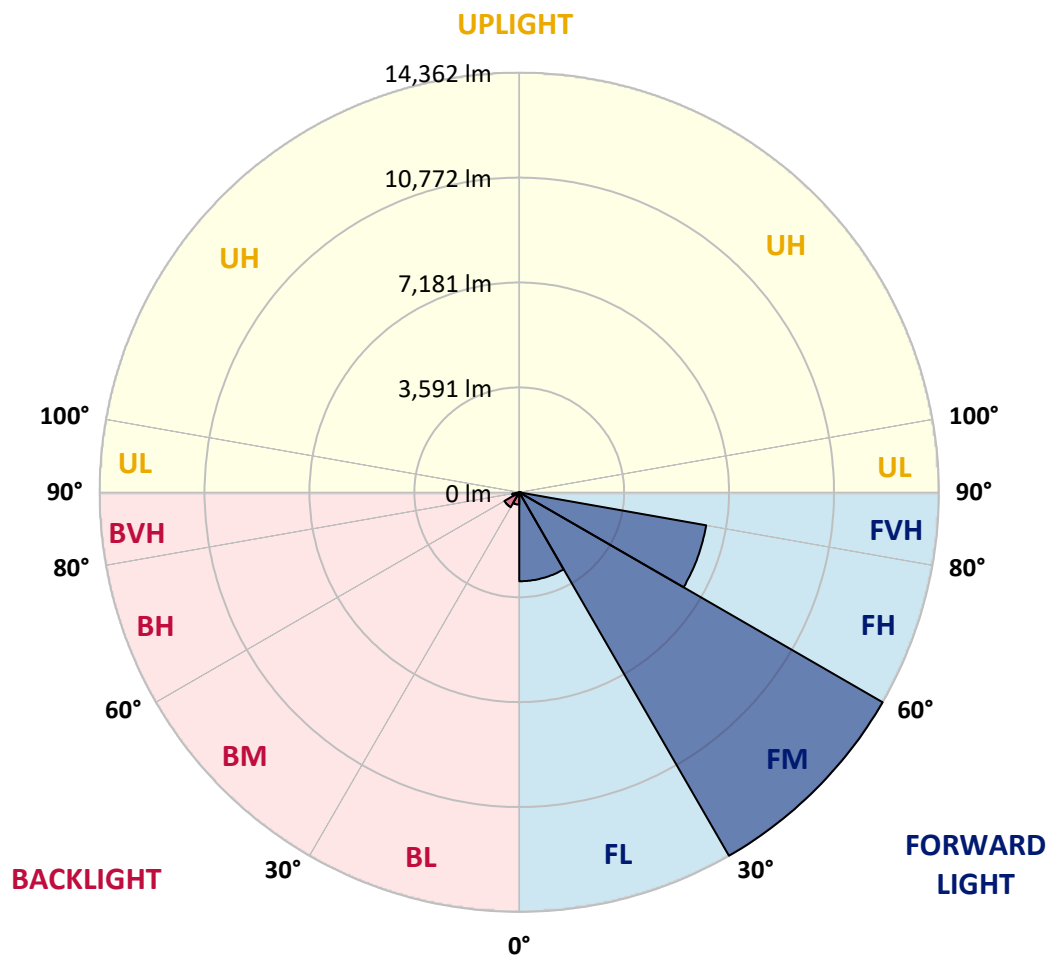
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3042.9	12.1			
FM	(30°-60°)	14362.2	57.0			
FH	(60°-80°)	6497.7	25.8			G3/7500
FVH	(80°-90°)	56.3	0.2			G1/100
BL	(0°-30°)	422.2	1.7	B1/500		
BM	(30°-60°)	585.9	2.3	B1/1000		
BH	(60°-80°)	241.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6
2.5°	3192.5	3120.7	3137.2	3090.8	3006.9	2834.6	2687.6	2548.5	2386.1	2380.5	2246.9
5°	4304.9	4244.1	4236.4	4142.5	3990.0	3697.3	3412.3	3087.5	2725.2	2698.7	2414.8
7.5°	5314.5	5265.9	5248.2	5136.7	4852.8	4567.8	4196.6	3719.4	3152.7	3104.1	2641.2
10°	6090.0	6066.8	6071.2	5991.7	5748.7	5483.5	4996.4	4387.7	3637.6	3562.5	2913.0
12.5°	6677.7	6683.2	6723.0	6674.4	6538.5	6341.9	5821.6	5100.2	4174.5	4071.8	3223.4
15°	7109.6	7137.2	7210.1	7270.9	7260.9	7090.8	6613.6	5823.8	4744.5	4630.7	3569.2
17.5°	7389.1	7420.0	7526.1	7660.8	7784.5	7744.8	7378.0	6521.9	5321.2	5189.7	3939.2
20°	7634.3	7670.8	7784.5	7962.4	8193.3	8243.0	8002.2	7199.1	5896.7	5736.5	4321.4
22.5°	8165.7	8164.5	8234.1	8338.0	8557.8	8685.9	8533.5	7827.6	6465.6	6298.8	4711.4
25°	9126.7	9090.3	9065.9	8984.2	9032.8	9112.3	9027.3	8415.3	7037.8	6868.8	5106.8
27.5°	10268.9	10291.0	10094.4	9874.6	9704.4	9622.7	9483.5	8959.9	7587.9	7402.3	5493.5
30°	11474.1	11480.7	11248.8	10968.2	10593.7	10283.3	10042.5	9480.2	8153.5	7951.3	5869.1
32.5°	12561.1	12518.0	12288.2	11906.0	11433.2	11084.2	10583.8	10061.2	8752.2	8556.7	6286.6
35°	13422.7	13371.9	13092.4	12744.5	12254.0	11902.7	11300.7	10641.2	9381.9	9190.8	6705.3
37.5°	14052.4	13992.7	13705.5	13347.6	12924.5	12720.2	12132.5	11272.0	10069.0	9863.5	7146.0
40°	14271.1	14219.2	14039.1	13777.3	13437.1	13390.7	13015.1	11997.7	10816.8	10598.1	7645.4
42.5°	14140.8	14089.9	14025.9	13937.5	13796.1	13840.3	13848.0	12825.1	11647.5	11432.1	8196.6
45°	13623.8	13578.5	13644.8	13774.0	13949.7	14168.4	14608.0	13714.4	12575.5	12345.7	8834.0
47.5°	12862.7	12829.5	13012.9	13335.5	13849.1	14452.3	15302.9	14648.9	13617.2	13404.0	9629.3
50°	11780.1	11774.6	12141.3	12730.1	13519.9	14589.3	16020.9	15711.6	15064.3	14840.0	10735.1
52.5°	10094.4	10105.4	10826.8	11769.1	12942.2	14496.5	16482.6	17076.9	16747.8	16514.7	11692.8
55°	8489.3	8555.6	9067.1	10425.8	12056.3	14151.8	16641.7	17714.3	17676.8	17455.8	12225.3
57.5°	6917.4	7037.8	7530.5	8799.7	10762.7	13357.6	16554.4	17990.5	18368.3	18199.3	12927.8
60°	5214.0	5269.2	5837.0	7023.4	9102.4	11908.2	15921.5	18140.7	19313.9	19196.8	13947.4
62.5°	3317.3	3455.4	3959.1	5103.5	7087.5	9895.5	14854.4	18138.5	20497.0	20561.0	15263.1
65°	1747.6	1908.9	2176.2	3162.6	4870.4	7647.6	13249.3	17968.4	21948.5	22038.0	16291.5
67.5°	942.3	988.7	1130.1	1641.5	2824.6	5180.9	10890.8	17128.9	22789.1	22907.3	16435.1
70°	689.3	714.7	767.7	908.0	1421.7	3009.1	7946.9	15225.5	21705.5	21661.3	14602.5
72.5°	529.1	568.9	608.7	665.0	817.4	1606.2	4947.8	11922.6	17318.9	17027.2	10915.2
75°	417.6	424.2	480.5	531.3	613.1	914.7	2197.2	6943.9	10570.5	9880.1	5660.3
77.5°	333.6	338.0	371.2	415.4	492.7	600.9	680.5	2731.8	3374.7	3011.3	1228.4
80°	197.7	208.8	276.2	320.4	408.7	378.9	248.5	593.2	526.9	477.2	206.6
82.5°	110.5	119.3	155.8	253.0	285.0	181.2	123.7	160.2	123.7	120.4	58.5
85°	0.0	5.5	100.5	156.9	116.0	39.8	51.9	53.0	36.5	34.2	23.2
87.5°	0.0	0.0	30.9	29.8	4.4	6.6	12.2	17.7	14.4	14.4	12.2
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°	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6	2138.6
2.5°	2180.6	2120.9	2008.3	1897.8	1805.0	1728.8	1660.3	1632.7	1610.6	1607.3	1589.6
5°	2277.8	2157.4	1942.0	1765.2	1647.0	1563.1	1491.3	1447.1	1412.9	1399.6	1387.5
7.5°	2424.7	2242.5	1933.2	1729.9	1588.5	1447.1	1314.5	1170.9	1081.5	1047.2	1027.3
10°	2603.7	2355.1	1966.3	1720.0	1472.5	1174.3	954.4	772.2	698.1	673.8	667.2
12.5°	2812.5	2495.4	2023.7	1658.1	1225.1	834.0	658.4	596.5	579.9	572.2	572.2
15°	3052.2	2649.0	2064.6	1479.1	905.8	630.8	570.0	541.3	523.6	513.7	514.8
17.5°	3297.4	2799.2	2044.7	1219.5	668.3	561.2	515.9	484.9	460.6	450.7	448.5
20°	3544.9	2938.4	1934.3	908.0	565.6	509.2	458.4	424.2	399.9	389.9	387.7
22.5°	3801.1	3056.6	1739.8	666.1	508.1	451.8	402.1	367.9	344.7	335.8	331.4
25°	4050.8	3152.7	1468.1	539.1	454.0	397.7	350.2	318.1	297.2	288.3	287.2
27.5°	4283.9	3213.5	1153.3	476.1	406.5	349.1	306.0	277.3	259.6	253.0	251.9
30°	4493.8	3219.0	852.8	429.7	364.5	307.1	267.3	241.9	226.5	219.8	217.6
32.5°	4705.9	3172.6	620.8	387.7	325.9	270.6	232.0	212.1	201.0	195.5	195.5
35°	4905.8	3065.4	483.8	351.3	288.3	235.3	204.4	190.0	183.4	177.9	177.9
37.5°	5101.3	2911.9	410.9	319.2	253.0	205.5	180.1	171.2	165.7	160.2	160.2
40°	5300.2	2718.6	373.4	289.4	224.2	182.3	160.2	152.4	146.9	142.5	141.4
42.5°	5544.3	2495.4	349.1	261.8	198.8	161.3	141.4	132.6	128.1	123.7	121.5
45°	5827.1	2303.2	329.2	234.2	177.9	143.6	122.6	113.8	107.2	101.6	100.5
47.5°	6234.7	2164.0	302.7	204.4	158.0	124.8	106.0	96.1	86.2	80.6	79.5
50°	6755.0	2049.1	268.4	177.9	138.1	106.0	88.4	76.2	67.4	61.9	61.9
52.5°	7013.5	1898.9	237.5	154.7	116.0	89.5	71.8	57.4	53.0	47.5	47.5
55°	7117.3	1784.0	206.6	131.5	96.1	74.0	56.3	44.2	40.9	37.6	36.5
57.5°	7409.0	1750.9	180.1	111.6	79.5	58.5	43.1	33.1	30.9	26.5	26.5
60°	7878.4	1767.5	155.8	95.0	64.1	45.3	32.0	25.4	23.2	18.8	18.8
62.5°	8385.5	1746.5	131.5	81.7	49.7	33.1	22.1	18.8	18.8	11.0	9.9
65°	8482.7	1555.4	112.7	67.4	38.7	24.3	14.4	12.2	16.6	2.2	0.0
67.5°	7872.9	1206.3	97.2	51.9	28.7	18.8	11.0	5.5	14.4	0.0	0.0
70°	6295.5	766.6	78.4	37.6	22.1	15.5	8.8	2.2	11.0	0.0	0.0
72.5°	4451.8	445.2	61.9	26.5	18.8	12.2	6.6	0.0	6.6	0.0	0.0
75°	2251.3	237.5	38.7	19.9	14.4	8.8	4.4	0.0	1.1	0.0	0.0
77.5°	487.2	110.5	24.3	14.4	9.9	5.5	2.2	0.0	0.0	0.0	0.0
80°	106.0	48.6	15.5	8.8	5.5	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	38.7	25.4	7.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	13.3	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.4	1.1	1.1	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)