

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: P321190

Luminaire Tested: **GAN-SA6A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321190
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-SA6A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 18815 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

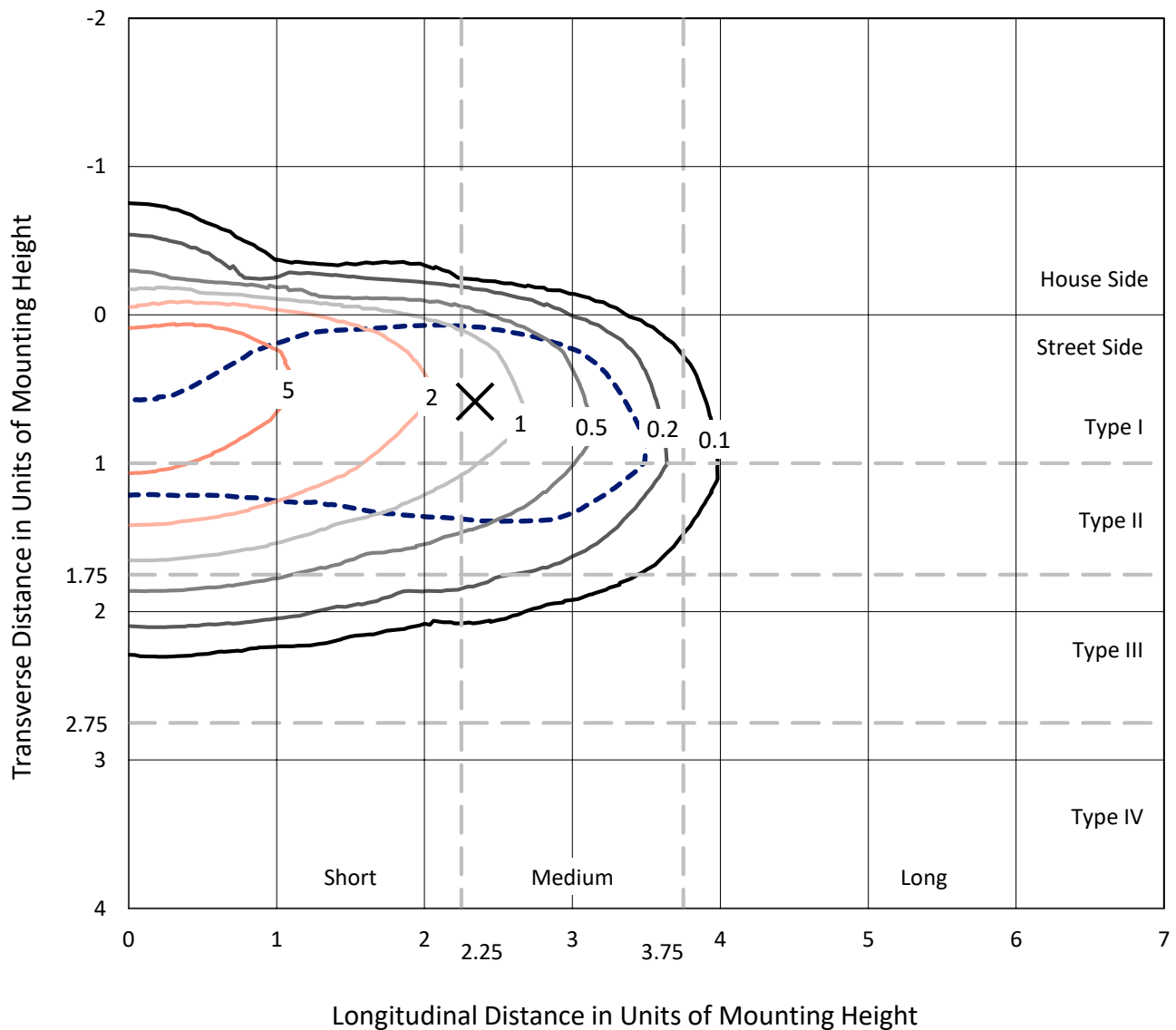
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

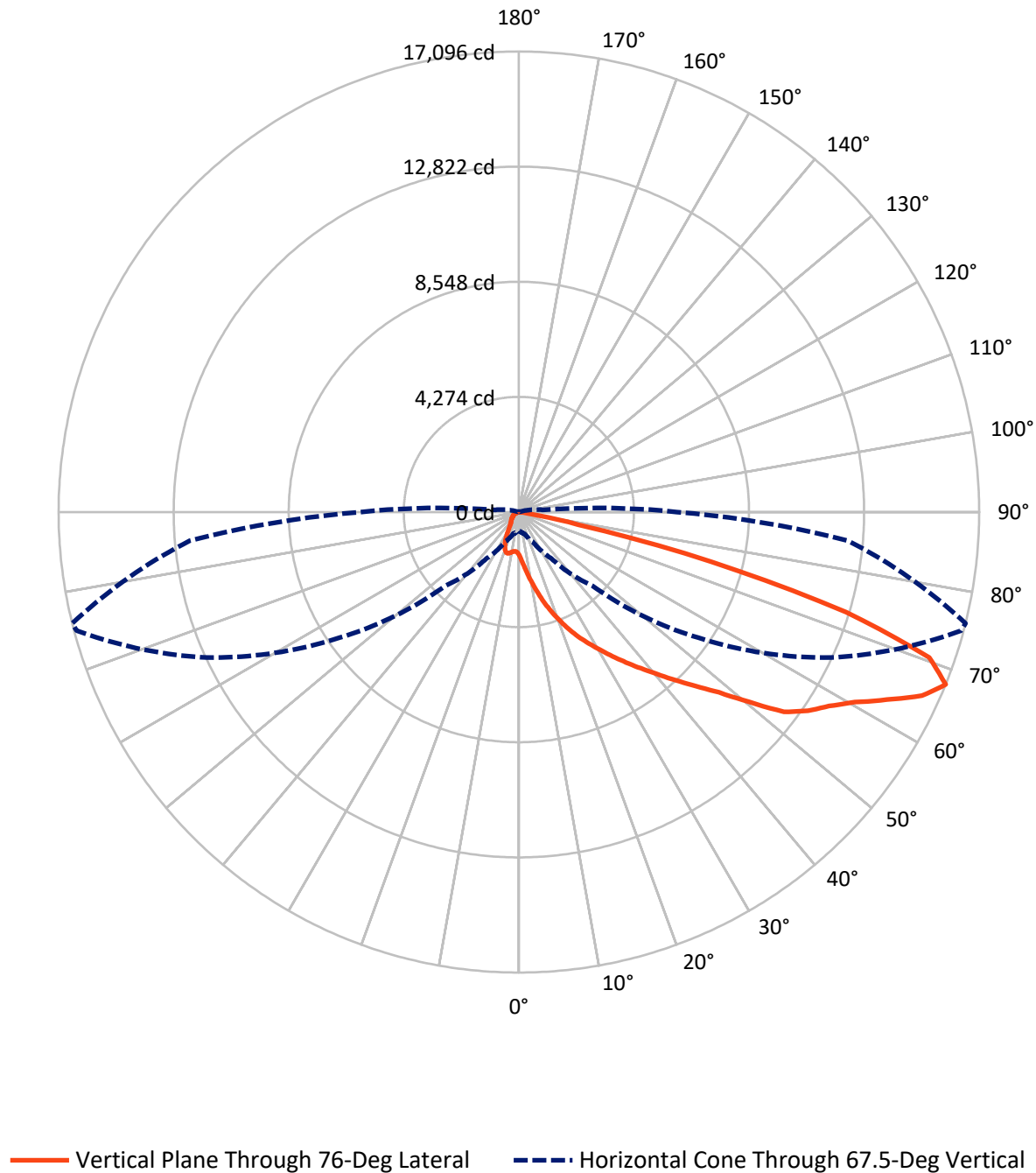
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	934.3	0.0	934.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17880.7	0.0	17880.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	18815.0	0.0	18815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.1
10°-20°	786.8	4.2
20°-30°	1600.8	8.5
30°-40°	2778.4	14.8
40°-50°	3925.6	20.9
50°-60°	4451.8	23.7
60°-70°	3692.3	19.6
70°-80°	1337.5	7.1
80°-90°	43.4	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°	18815.0	100.0
0°-180°	18815.0	100.0

Coefficient of Utilization



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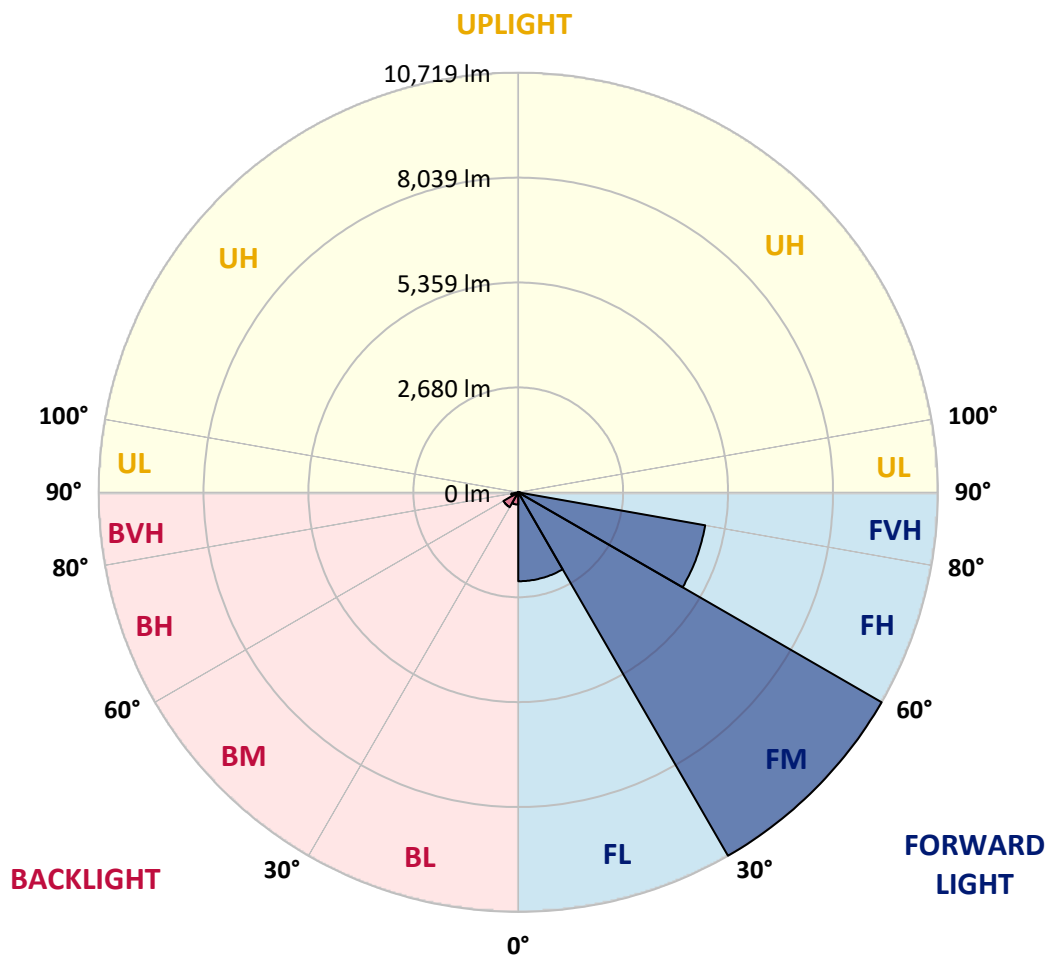
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.9	12.1			
FM	(30°-60°)	10718.5	57.0			
FH	(60°-80°)	4849.3	25.8			G2/5000
FVH	(80°-90°)	42.0	0.2			G1/100
BL	(0°-30°)	315.1	1.7	B1/500		
BM	(30°-60°)	437.3	2.3	B1/1000		
BH	(60°-80°)	180.5	1.0	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1
2.5°	2382.5	2329.0	2341.3	2306.7	2244.0	2115.4	2005.8	1901.9	1780.7	1776.6	1676.8
5°	3212.7	3167.4	3161.6	3091.5	2977.8	2759.3	2546.6	2304.2	2033.8	2014.0	1802.2
7.5°	3966.2	3930.0	3916.8	3833.5	3621.6	3408.9	3131.9	2775.8	2352.9	2316.6	1971.2
10°	4545.0	4527.7	4531.0	4471.6	4290.2	4092.4	3728.8	3274.6	2714.8	2658.7	2174.0
12.5°	4983.6	4987.7	5017.4	4981.1	4879.7	4732.9	4344.6	3806.3	3115.4	3038.8	2405.6
15°	5305.9	5326.5	5380.9	5426.3	5418.8	5291.9	4935.7	4346.3	3540.8	3455.9	2663.7
17.5°	5514.5	5537.6	5616.7	5717.3	5809.6	5779.9	5506.2	4867.3	3971.2	3873.1	2939.8
20°	5697.5	5724.7	5809.6	5942.3	6114.6	6151.7	5972.0	5372.7	4400.7	4281.2	3225.1
22.5°	6094.0	6093.2	6145.1	6222.6	6386.7	6482.3	6368.6	5841.8	4825.3	4700.8	3516.1
25°	6811.3	6784.1	6765.9	6704.9	6741.2	6800.6	6737.1	6280.4	5252.3	5126.2	3811.2
27.5°	7663.7	7680.2	7533.5	7369.4	7242.4	7181.4	7077.6	6686.8	5662.9	5524.4	4099.8
30°	8563.1	8568.1	8395.0	8185.6	7906.1	7674.4	7494.7	7075.1	6085.0	5934.1	4380.1
32.5°	9374.4	9342.2	9170.7	8885.5	8532.6	8272.1	7898.7	7508.7	6531.8	6385.9	4691.7
35°	10017.4	9979.5	9770.9	9511.2	9145.2	8883.0	8433.7	7941.5	7001.7	6859.1	5004.2
37.5°	10487.3	10442.8	10228.4	9961.3	9645.6	9493.1	9054.5	8412.3	7514.5	7361.2	5333.1
40°	10650.5	10611.8	10477.4	10282.0	10028.1	9993.5	9713.2	8953.9	8072.6	7909.4	5705.7
42.5°	10553.3	10515.3	10467.5	10401.6	10296.1	10329.0	10334.8	9571.4	8692.6	8531.8	6117.1
45°	10167.4	10133.6	10183.1	10279.6	10410.6	10573.9	10902.0	10235.0	9385.1	9213.6	6592.8
47.5°	9599.4	9574.7	9711.5	9952.3	10335.6	10785.8	11420.5	10932.5	10162.5	10003.4	7186.4
50°	8791.5	8787.4	9061.1	9500.5	10089.9	10888.0	11956.4	11725.6	11242.5	11075.1	8011.6
52.5°	7533.5	7541.7	8080.0	8783.3	9658.8	10818.7	12301.0	12744.5	12498.9	12324.9	8726.4
55°	6335.6	6385.1	6766.8	7780.8	8997.6	10561.5	12419.7	13220.2	13192.2	13027.3	9123.7
57.5°	5162.5	5252.3	5620.0	6567.2	8032.2	9968.8	12354.6	13426.3	13708.3	13582.1	9648.1
60°	3891.2	3932.4	4356.2	5241.6	6793.1	8887.1	11882.2	13538.5	14414.0	14326.6	10409.0
62.5°	2475.7	2578.8	2954.7	3808.8	5289.4	7385.1	11085.8	13536.8	15296.9	15344.7	11390.9
65°	1304.2	1424.6	1624.1	2360.3	3634.8	5707.4	9888.0	13409.8	16380.2	16447.0	12158.4
67.5°	703.2	737.8	843.4	1225.1	2108.0	3866.5	8127.9	12783.3	17007.6	17095.8	12265.6
70°	514.4	533.4	573.0	677.7	1061.0	2245.7	5930.8	11362.8	16198.8	16165.8	10897.9
72.5°	394.9	424.6	454.2	496.3	610.1	1198.7	3692.5	8897.9	12925.1	12707.4	8146.0
75°	311.6	316.6	358.6	396.5	457.5	682.6	1639.8	5182.2	7888.8	7373.5	4224.3
77.5°	249.0	252.3	277.0	310.0	367.7	448.5	507.8	2038.8	2518.6	2247.3	916.7
80°	147.6	155.8	206.1	239.1	305.0	282.8	185.5	442.7	393.2	356.1	154.2
82.5°	82.4	89.0	116.2	188.8	212.7	135.2	92.3	119.5	92.3	89.9	43.7
85°	0.0	4.1	75.0	117.1	86.6	29.7	38.7	39.6	27.2	25.6	17.3
87.5°	0.0	0.0	23.1	22.3	3.3	4.9	9.1	13.2	10.7	10.7	9.1
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°	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1	1596.1
2.5°	1627.4	1582.9	1498.8	1416.3	1347.1	1290.2	1239.1	1218.5	1202.0	1199.5	1186.3
5°	1699.9	1610.1	1449.3	1317.4	1229.2	1166.5	1113.0	1080.0	1054.4	1044.5	1035.5
7.5°	1809.6	1673.6	1442.7	1291.0	1185.5	1080.0	981.0	873.9	807.1	781.5	766.7
10°	1943.1	1757.6	1467.4	1283.6	1098.9	876.3	712.3	576.3	521.0	502.9	497.9
12.5°	2098.9	1862.3	1510.3	1237.4	914.3	622.4	491.3	445.2	432.8	427.0	427.0
15°	2277.8	1976.9	1540.8	1103.9	676.0	470.7	425.4	404.0	390.8	383.4	384.2
17.5°	2460.9	2089.1	1526.0	910.1	498.8	418.8	385.0	361.9	343.8	336.4	334.7
20°	2645.5	2192.9	1443.5	677.7	422.1	380.1	342.1	316.6	298.4	291.0	289.4
22.5°	2836.8	2281.1	1298.4	497.1	379.2	337.2	300.1	274.5	257.2	250.6	247.3
25°	3023.1	2352.9	1095.6	402.3	338.8	296.8	261.3	237.4	221.8	215.2	214.3
27.5°	3197.1	2398.2	860.7	355.3	303.4	260.5	228.4	206.9	193.7	188.8	188.0
30°	3353.7	2402.3	636.4	320.7	272.1	229.2	199.5	180.5	169.0	164.1	162.4
32.5°	3512.0	2367.7	463.3	289.4	243.2	202.0	173.1	158.3	150.0	145.9	145.9
35°	3661.2	2287.7	361.1	262.2	215.2	175.6	152.5	141.8	136.9	132.7	132.7
37.5°	3807.1	2173.1	306.7	238.3	188.8	153.3	134.4	127.8	123.7	119.5	119.5
40°	3955.5	2028.9	278.7	216.0	167.4	136.0	119.5	113.8	109.6	106.3	105.5
42.5°	4137.7	1862.3	260.5	195.4	148.4	120.4	105.5	98.9	95.6	92.3	90.7
45°	4348.8	1718.9	245.7	174.8	132.7	107.2	91.5	84.9	80.0	75.8	75.0
47.5°	4653.0	1615.0	225.9	152.5	117.9	93.2	79.1	71.7	64.3	60.2	59.4
50°	5041.3	1529.3	200.3	132.7	103.1	79.1	66.0	56.9	50.3	46.2	46.2
52.5°	5234.2	1417.2	177.2	115.4	86.6	66.8	53.6	42.9	39.6	35.4	35.4
55°	5311.7	1331.4	154.2	98.1	71.7	55.2	42.0	33.0	30.5	28.0	27.2
57.5°	5529.3	1306.7	134.4	83.3	59.4	43.7	32.2	24.7	23.1	19.8	19.8
60°	5879.7	1319.1	116.2	70.9	47.8	33.8	23.9	19.0	17.3	14.0	14.0
62.5°	6258.1	1303.4	98.1	61.0	37.1	24.7	16.5	14.0	14.0	8.2	7.4
65°	6330.6	1160.8	84.1	50.3	28.9	18.1	10.7	9.1	12.4	1.6	0.0
67.5°	5875.6	900.3	72.5	38.7	21.4	14.0	8.2	4.1	10.7	0.0	0.0
70°	4698.3	572.1	58.5	28.0	16.5	11.5	6.6	1.6	8.2	0.0	0.0
72.5°	3322.4	332.2	46.2	19.8	14.0	9.1	4.9	0.0	4.9	0.0	0.0
75°	1680.1	177.2	28.9	14.8	10.7	6.6	3.3	0.0	0.8	0.0	0.0
77.5°	363.6	82.4	18.1	10.7	7.4	4.1	1.6	0.0	0.0	0.0	0.0
80°	79.1	36.3	11.5	6.6	4.1	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	19.0	5.8	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	9.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	0.8	0.8	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)