

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: P321348

Luminaire Tested: **GAN-SA4A-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321348
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-SA4A-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 15174 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

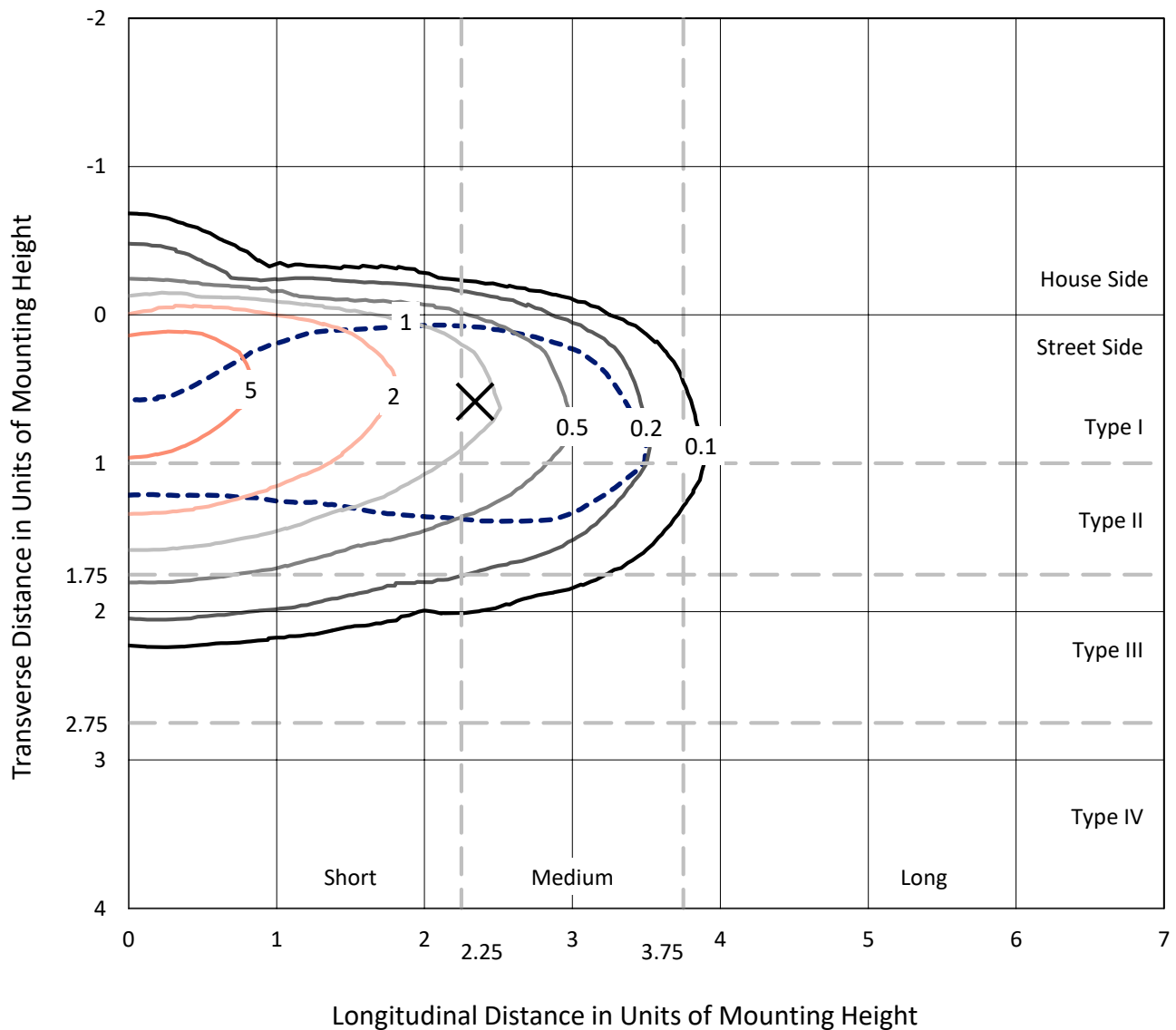
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

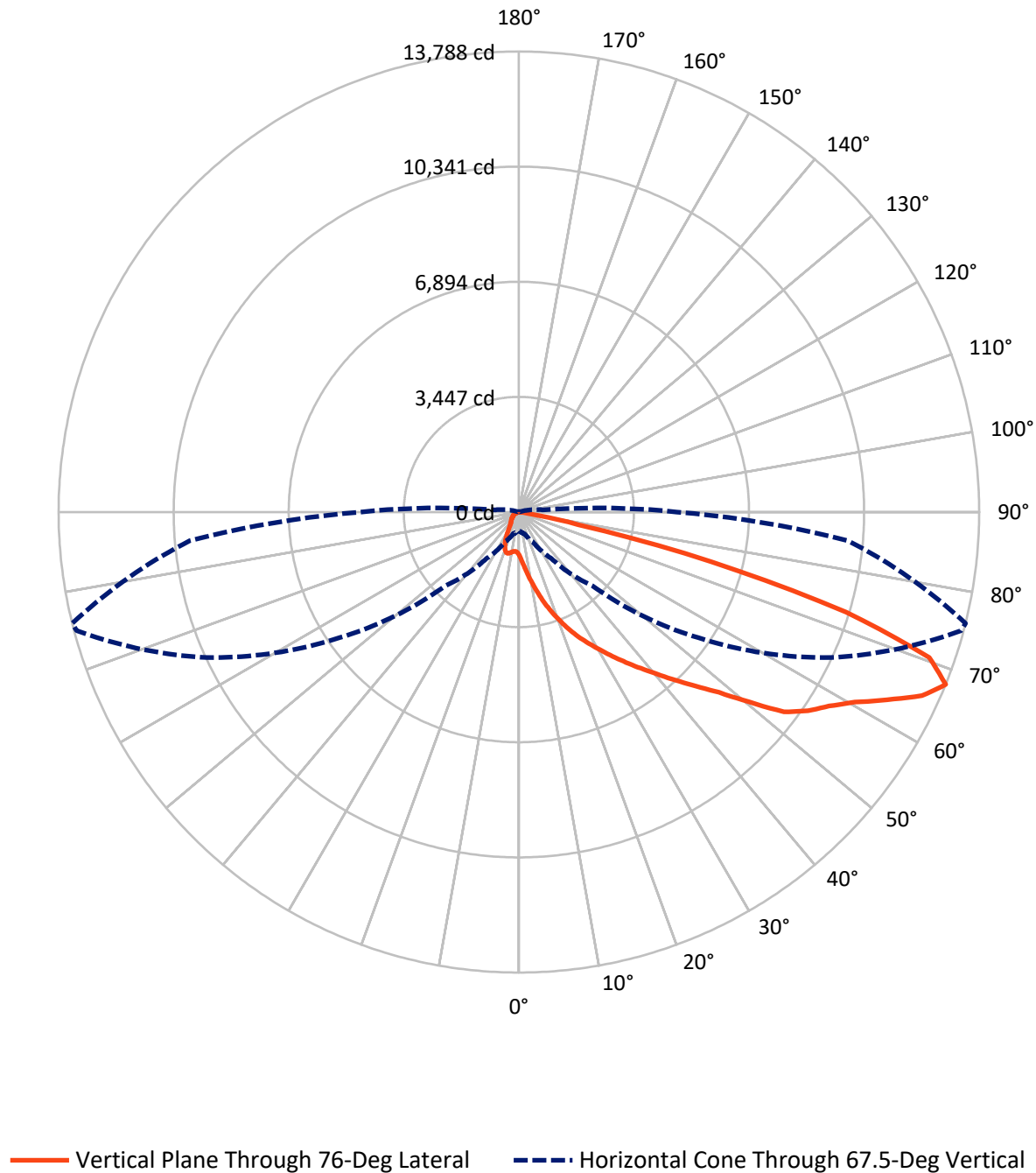
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	753.5	0.0	753.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14420.5	0.0	14420.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	15174.0	0.0	15174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.1
10°-20°	634.5	4.2
20°-30°	1291.0	8.5
30°-40°	2240.8	14.8
40°-50°	3165.9	20.9
50°-60°	3590.3	23.7
60°-70°	2977.8	19.6
70°-80°	1078.6	7.1
80°-90°	35.0	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°	15174.0	100.0
0°-180°	15174.0	100.0

Coefficient of Utilization



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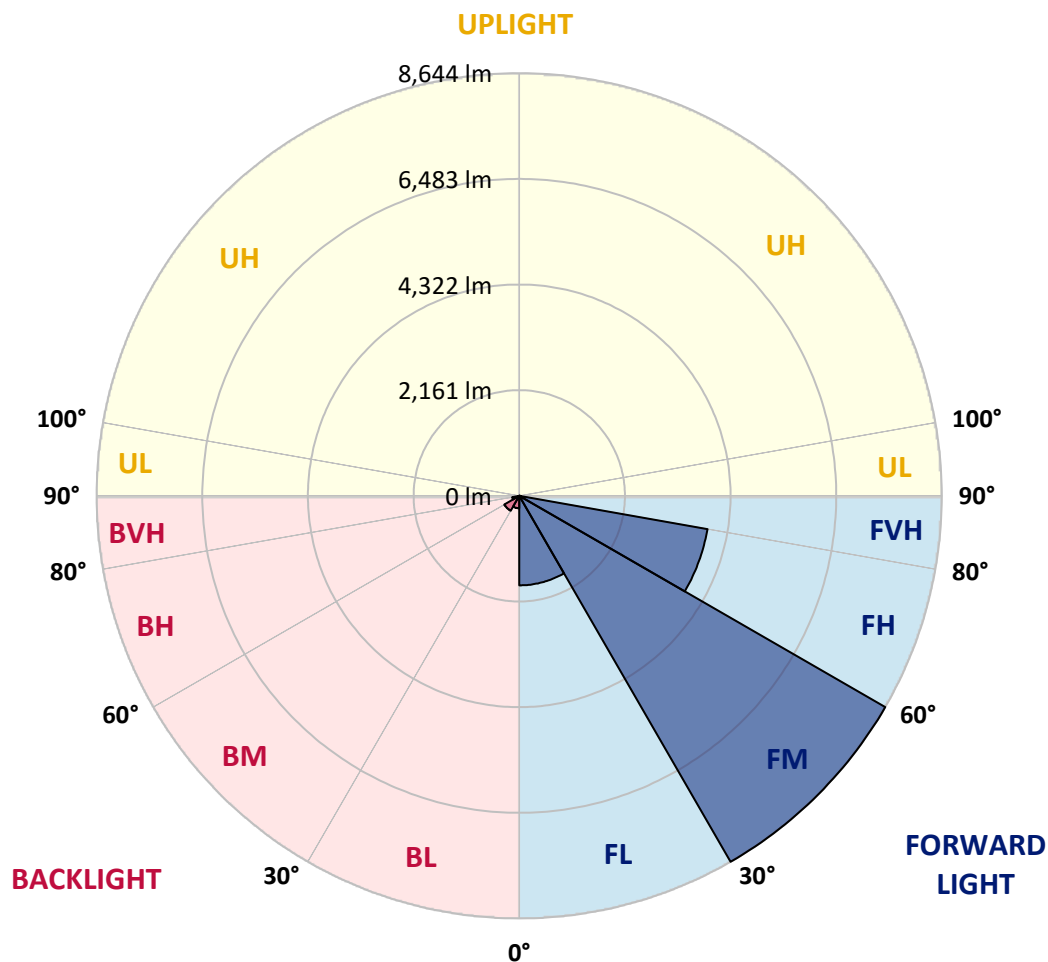
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.5	12.1			
FM	(30°-60°)	8644.3	57.0			
FH	(60°-80°)	3910.8	25.8			G2/5000
FVH	(80°-90°)	33.9	0.2			G1/100
BL	(0°-30°)	254.1	1.7	B1/500		
BM	(30°-60°)	352.7	2.3	B1/1000		
BH	(60°-80°)	145.6	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2
2.5°	1921.5	1878.3	1888.2	1860.3	1809.8	1706.1	1617.6	1533.9	1436.1	1432.8	1352.4
5°	2591.0	2554.4	2549.8	2493.3	2401.5	2225.3	2053.8	1858.3	1640.2	1624.3	1453.4
7.5°	3198.7	3169.5	3158.8	3091.7	2920.8	2749.3	2525.9	2238.6	1897.5	1868.3	1589.7
10°	3665.4	3651.5	3654.1	3606.3	3460.0	3300.4	3007.2	2640.9	2189.4	2144.2	1753.3
12.5°	4019.2	4022.5	4046.4	4017.2	3935.4	3817.0	3503.9	3069.7	2512.6	2450.7	1940.1
15°	4279.1	4295.7	4339.6	4376.2	4370.2	4267.8	3980.6	3505.2	2855.6	2787.1	2148.2
17.5°	4447.3	4466.0	4529.8	4610.9	4685.4	4661.4	4440.7	3925.4	3202.7	3123.6	2370.9
20°	4594.9	4616.9	4685.4	4792.4	4931.4	4961.3	4816.3	4333.0	3549.1	3452.7	2601.0
22.5°	4914.7	4914.1	4956.0	5018.5	5150.8	5227.9	5136.1	4711.3	3891.5	3791.1	2835.7
25°	5493.2	5471.2	5456.6	5407.4	5436.7	5484.5	5433.3	5065.0	4235.9	4134.2	3073.7
27.5°	6180.7	6194.0	6075.6	5943.3	5840.9	5791.7	5707.9	5392.8	4567.0	4455.3	3306.4
30°	6906.0	6910.0	6770.4	6601.5	6376.1	6189.3	6044.4	5705.9	4907.4	4785.8	3532.5
32.5°	7560.3	7534.3	7396.1	7166.0	6881.4	6671.3	6370.2	6055.7	5267.8	5150.1	3783.8
35°	8078.9	8048.3	7880.1	7670.6	7375.4	7164.0	6801.7	6404.7	5646.8	5531.7	4035.8
37.5°	8457.9	8421.9	8249.1	8033.7	7779.0	7656.0	7302.3	6784.4	6060.3	5936.7	4301.1
40°	8589.5	8558.2	8449.9	8292.3	8087.5	8059.6	7833.5	7221.2	6510.4	6378.8	4601.6
42.5°	8511.0	8480.5	8441.9	8388.7	8303.6	8330.2	8334.9	7719.2	7010.4	6880.8	4933.4
45°	8199.9	8172.6	8212.5	8290.3	8396.0	8527.7	8792.3	8254.4	7568.9	7430.6	5317.0
47.5°	7741.8	7721.8	7832.2	8026.4	8335.5	8698.5	9210.5	8816.9	8195.9	8067.6	5795.7
50°	7090.2	7086.9	7307.6	7662.0	8137.4	8781.0	9642.7	9456.5	9066.9	8931.9	6461.2
52.5°	6075.6	6082.3	6516.4	7083.6	7789.7	8725.1	9920.6	10278.3	10080.1	9939.9	7037.7
55°	5109.6	5149.4	5457.3	6275.1	7256.4	8517.7	10016.3	10661.9	10639.3	10506.3	7358.2
57.5°	4163.4	4235.9	4532.4	5296.4	6477.9	8039.6	9963.8	10828.1	11055.5	10953.8	7781.0
60°	3138.2	3171.4	3513.2	4227.3	5478.6	7167.3	9582.8	10918.5	11624.6	11554.2	8394.7
62.5°	1996.6	2079.7	2382.9	3071.7	4265.8	5955.9	8940.6	10917.2	12336.7	12375.3	9186.6
65°	1051.8	1148.9	1309.8	1903.5	2931.4	4602.9	7974.5	10814.8	13210.4	13264.2	9805.6
67.5°	567.1	595.1	680.2	988.0	1700.1	3118.3	6555.0	10309.5	13716.3	13787.5	9892.0
70°	414.9	430.2	462.1	546.5	855.7	1811.1	4783.1	9163.9	13064.1	13037.5	8789.0
72.5°	318.5	342.4	366.3	400.3	492.0	966.7	2978.0	7176.0	10423.9	10248.4	6569.6
75°	251.3	255.3	289.2	319.8	369.0	550.5	1322.4	4179.4	6362.2	5946.6	3406.8
77.5°	200.8	203.5	223.4	250.0	296.5	361.7	409.6	1644.2	2031.2	1812.4	739.3
80°	119.0	125.7	166.2	192.8	246.0	228.1	149.6	357.0	317.1	287.2	124.3
82.5°	66.5	71.8	93.7	152.3	171.5	109.0	74.5	96.4	74.5	72.5	35.2
85°	0.0	3.3	60.5	94.4	69.8	23.9	31.2	31.9	21.9	20.6	14.0
87.5°	0.0	0.0	18.6	18.0	2.7	4.0	7.3	10.6	8.6	8.6	7.3
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°	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2
2.5°	1312.5	1276.6	1208.7	1142.3	1086.4	1040.5	999.3	982.7	969.4	967.4	956.8
5°	1371.0	1298.5	1168.8	1062.5	991.3	940.8	897.6	871.0	850.4	842.4	835.1
7.5°	1459.4	1349.7	1163.5	1041.2	956.1	871.0	791.2	704.8	650.9	630.3	618.3
10°	1567.1	1417.5	1183.5	1035.2	886.3	706.8	574.5	464.7	420.2	405.6	401.6
12.5°	1692.8	1501.9	1218.0	998.0	737.3	502.0	396.3	359.0	349.1	344.4	344.4
15°	1837.0	1594.4	1242.6	890.3	545.2	379.6	343.1	325.8	315.1	309.2	309.8
17.5°	1984.6	1684.8	1230.7	734.0	402.2	337.8	310.5	291.9	277.3	271.3	269.9
20°	2133.6	1768.6	1164.2	546.5	340.4	306.5	275.9	255.3	240.7	234.7	233.4
22.5°	2287.8	1839.7	1047.2	400.9	305.8	271.9	242.0	221.4	207.4	202.1	199.5
25°	2438.1	1897.5	883.6	324.5	273.3	239.4	210.8	191.5	178.9	173.5	172.9
27.5°	2578.4	1934.1	694.1	286.6	244.7	210.1	184.2	166.9	156.2	152.3	151.6
30°	2704.7	1937.4	513.3	258.6	219.4	184.8	160.9	145.6	136.3	132.3	131.0
32.5°	2832.4	1909.5	373.7	233.4	196.1	162.9	139.6	127.7	121.0	117.7	117.7
35°	2952.7	1845.0	291.2	211.4	173.5	141.6	123.0	114.4	110.4	107.0	107.0
37.5°	3070.4	1752.6	247.3	192.1	152.3	123.7	108.4	103.1	99.7	96.4	96.4
40°	3190.1	1636.3	224.7	174.2	135.0	109.7	96.4	91.8	88.4	85.8	85.1
42.5°	3337.0	1501.9	210.1	157.6	119.7	97.1	85.1	79.8	77.1	74.5	73.1
45°	3507.2	1386.3	198.1	141.0	107.0	86.4	73.8	68.5	64.5	61.2	60.5
47.5°	3752.5	1302.5	182.2	123.0	95.1	75.1	63.8	57.8	51.9	48.5	47.9
50°	4065.7	1233.3	161.6	107.0	83.1	63.8	53.2	45.9	40.6	37.2	37.2
52.5°	4221.3	1142.9	142.9	93.1	69.8	53.9	43.2	34.6	31.9	28.6	28.6
55°	4283.8	1073.8	124.3	79.1	57.8	44.5	33.9	26.6	24.6	22.6	21.9
57.5°	4459.3	1053.8	108.4	67.2	47.9	35.2	25.9	19.9	18.6	16.0	16.0
60°	4741.9	1063.8	93.7	57.2	38.6	27.3	19.3	15.3	14.0	11.3	11.3
62.5°	5047.1	1051.2	79.1	49.2	29.9	19.9	13.3	11.3	11.3	6.6	6.0
65°	5105.6	936.1	67.8	40.6	23.3	14.6	8.6	7.3	10.0	1.3	0.0
67.5°	4738.6	726.0	58.5	31.2	17.3	11.3	6.6	3.3	8.6	0.0	0.0
70°	3789.1	461.4	47.2	22.6	13.3	9.3	5.3	1.3	6.6	0.0	0.0
72.5°	2679.4	267.9	37.2	16.0	11.3	7.3	4.0	0.0	4.0	0.0	0.0
75°	1355.0	142.9	23.3	12.0	8.6	5.3	2.7	0.0	0.7	0.0	0.0
77.5°	293.2	66.5	14.6	8.6	6.0	3.3	1.3	0.0	0.0	0.0	0.0
80°	63.8	29.3	9.3	5.3	3.3	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.3	15.3	4.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	8.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.7	0.7	0.7	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)