

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: P321366

Luminaire Tested: **GAN-SA2C-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321366
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-SA2C-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA 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: 11681 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

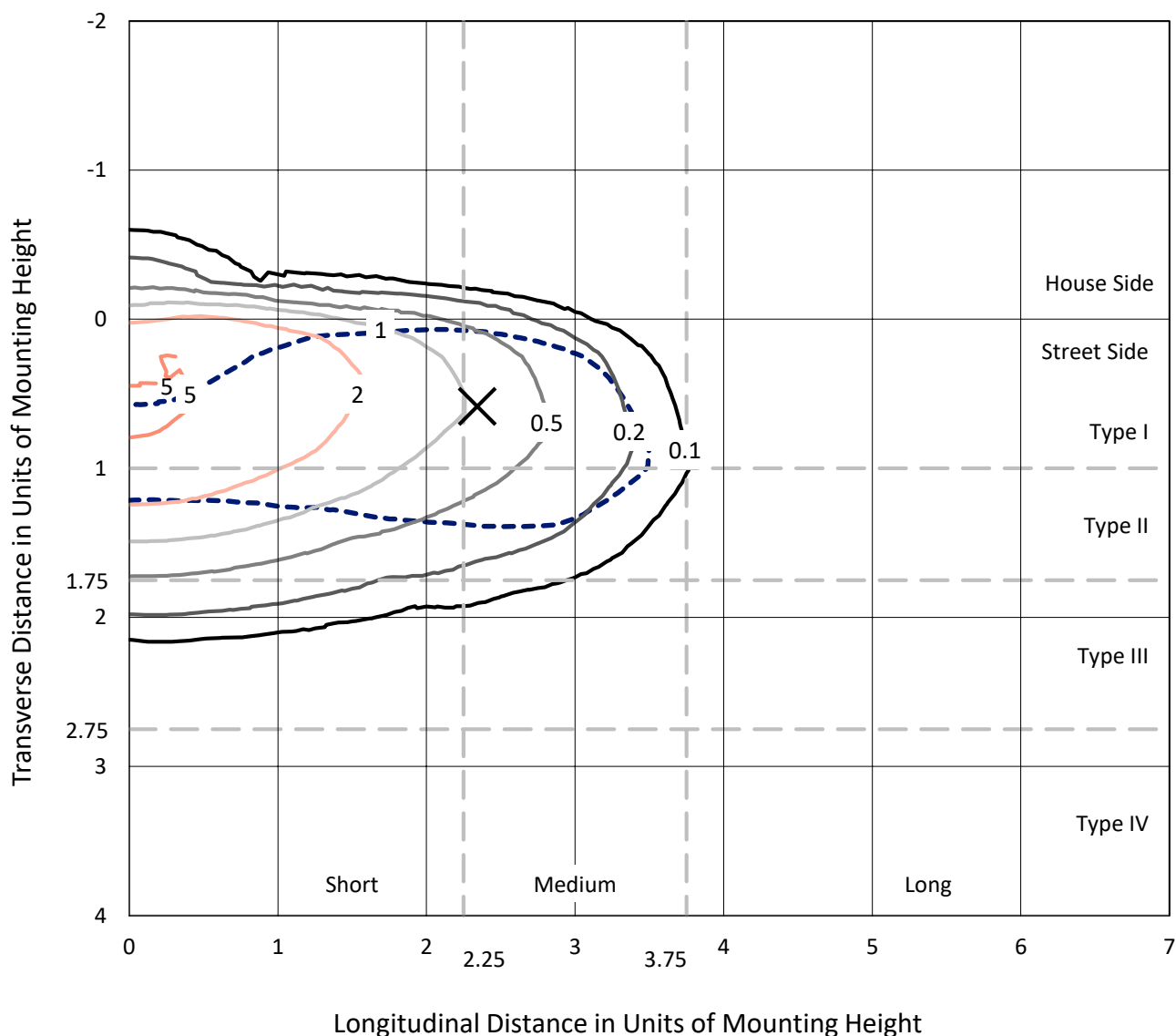
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

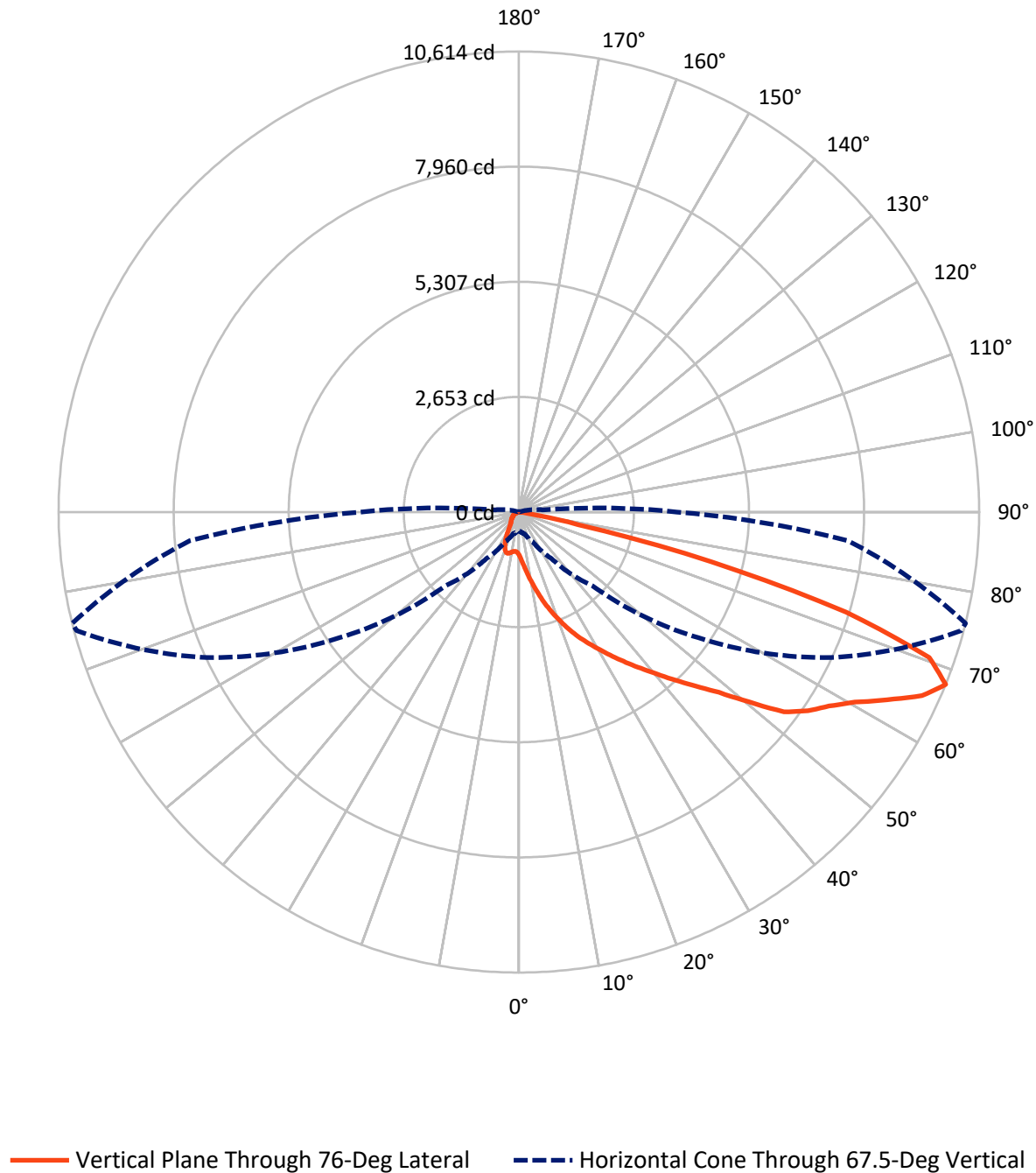
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	580.0	0.0	580.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11100.9	0.0	11100.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	11681.0	0.0	11681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	1.1
10°-20°	488.4	4.2
20°-30°	993.8	8.5
30°-40°	1725.0	14.8
40°-50°	2437.1	20.9
50°-60°	2763.8	23.7
60°-70°	2292.3	19.6
70°-80°	830.3	7.1
80°-90°	26.9	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°	11681.0	100.0
0°-180°	11681.0	100.0

Coefficient of Utilization



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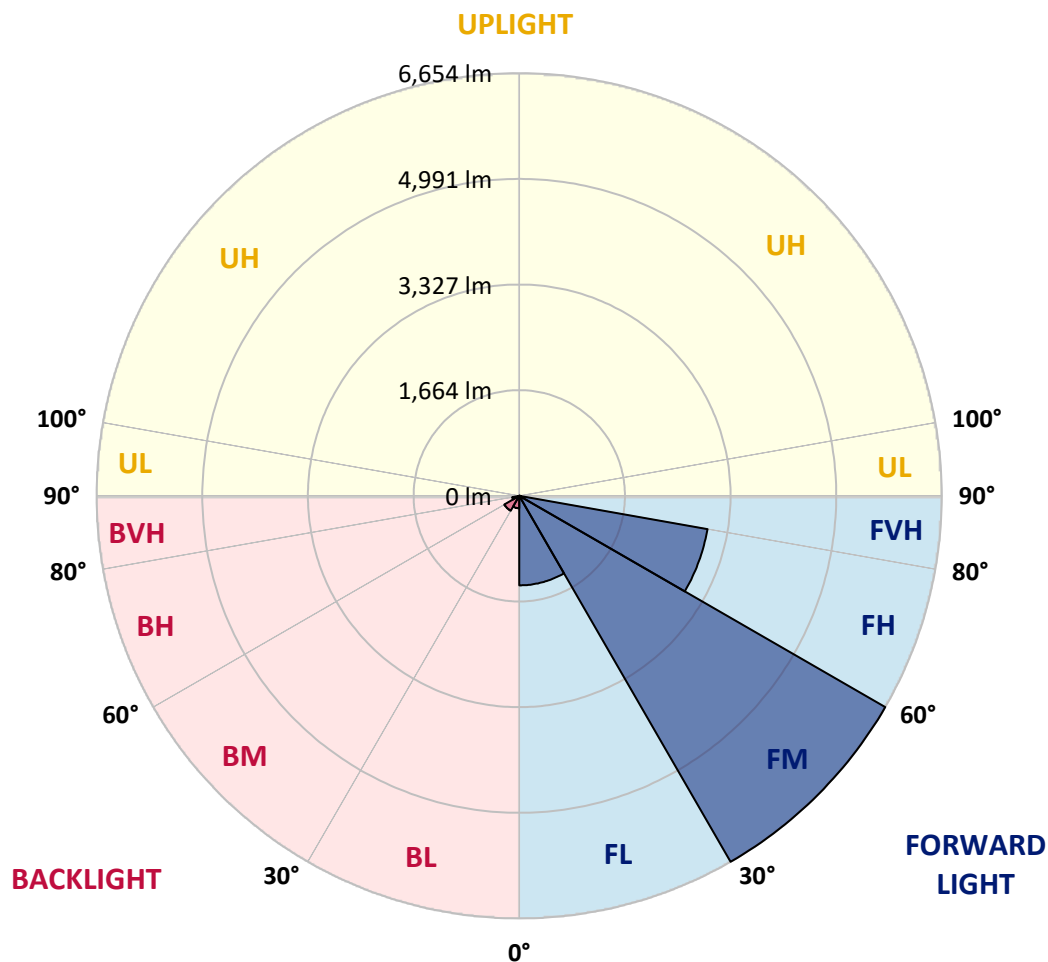
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1409.9	12.1			
FM	(30°-60°)	6654.4	57.0			
FH	(60°-80°)	3010.6	25.8			G2/5000
FVH	(80°-90°)	26.1	0.2			G1/100
BL	(0°-30°)	195.6	1.7	B1/500		
BM	(30°-60°)	271.5	2.3	B1/1000		
BH	(60°-80°)	112.1	1.0	B1/500		G1/500
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°	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9
2.5°	1479.2	1445.9	1453.6	1432.1	1393.2	1313.3	1245.3	1180.8	1105.5	1103.0	1041.0
5°	1994.6	1966.4	1962.8	1919.3	1848.7	1713.1	1581.0	1430.5	1262.7	1250.4	1118.8
7.5°	2462.4	2439.9	2431.7	2380.0	2248.4	2116.4	1944.4	1723.3	1460.7	1438.2	1223.8
10°	2821.7	2810.9	2813.0	2776.1	2663.5	2540.7	2315.0	2033.0	1685.4	1650.6	1349.7
12.5°	3094.0	3096.5	3114.9	3092.4	3029.5	2938.4	2697.3	2363.1	1934.2	1886.6	1493.5
15°	3294.1	3306.9	3340.7	3368.8	3364.2	3285.4	3064.3	2698.3	2198.3	2145.6	1653.7
17.5°	3423.6	3437.9	3487.0	3549.5	3606.8	3588.4	3418.5	3021.8	2465.4	2404.5	1825.2
20°	3537.2	3554.1	3606.8	3689.2	3796.2	3819.2	3707.6	3335.5	2732.1	2657.9	2002.2
22.5°	3783.4	3782.9	3815.1	3863.2	3965.1	4024.5	3953.8	3626.8	2995.7	2918.4	2182.9
25°	4228.7	4211.8	4200.5	4162.6	4185.2	4222.0	4182.6	3899.1	3260.8	3182.5	2366.2
27.5°	4757.9	4768.1	4677.0	4575.2	4496.4	4458.5	4394.0	4151.4	3515.7	3429.7	2545.3
30°	5316.3	5319.4	5211.9	5081.9	4908.4	4764.5	4653.0	4392.5	3777.8	3684.1	2719.3
32.5°	5819.9	5800.0	5693.5	5516.4	5297.4	5135.6	4903.8	4661.7	4055.2	3964.6	2912.8
35°	6219.1	6195.6	6066.1	5904.9	5677.6	5514.9	5235.9	4930.4	4346.9	4258.4	3106.8
37.5°	6510.9	6483.2	6350.2	6184.3	5988.3	5893.6	5621.3	5222.6	4665.3	4570.1	3311.0
40°	6612.2	6588.2	6504.7	6383.4	6225.8	6204.3	6030.3	5558.9	5011.8	4910.4	3542.3
42.5°	6551.8	6528.3	6498.6	6457.7	6392.1	6412.6	6416.2	5942.3	5396.6	5296.8	3797.7
45°	6312.3	6291.3	6322.0	6381.9	6463.3	6564.6	6768.3	6354.3	5826.6	5720.1	4093.0
47.5°	5959.7	5944.3	6029.3	6178.7	6416.7	6696.2	7090.3	6787.3	6309.2	6210.4	4461.6
50°	5458.1	5455.5	5625.4	5898.2	6264.2	6759.6	7423.0	7279.6	6979.7	6875.8	4973.9
52.5°	4677.0	4682.1	5016.4	5453.0	5996.5	6716.6	7636.9	7912.3	7759.7	7651.7	5417.6
55°	3933.4	3964.1	4201.0	4830.6	5586.0	6556.9	7710.6	8207.6	8190.2	8087.8	5664.3
57.5°	3205.0	3260.8	3489.1	4077.2	4986.7	6188.9	7670.2	8335.5	8510.6	8432.3	5989.9
60°	2415.8	2441.4	2704.5	3254.2	4217.4	5517.4	7376.9	8405.1	8948.7	8894.4	6462.3
62.5°	1537.0	1601.0	1834.4	2364.6	3283.8	4584.9	6882.5	8404.1	9496.9	9526.5	7071.8
65°	809.7	884.4	1008.3	1465.3	2256.6	3543.3	6138.8	8325.3	10169.4	10210.8	7548.3
67.5°	436.6	458.1	523.6	760.6	1308.7	2400.4	5046.1	7936.3	10558.9	10613.6	7614.9
70°	319.4	331.1	355.7	420.7	658.7	1394.2	3682.0	7054.4	10056.8	10036.3	6765.8
72.5°	245.2	263.6	282.0	308.1	378.7	744.2	2292.5	5524.1	8024.3	7889.2	5057.3
75°	193.5	196.5	222.6	246.2	284.1	423.8	1018.0	3217.3	4897.6	4577.7	2622.6
77.5°	154.6	156.6	172.0	192.4	228.3	278.4	315.3	1265.7	1563.6	1395.2	569.1
80°	91.6	96.7	128.0	148.4	189.4	175.6	115.2	274.8	244.1	221.1	95.7
82.5°	51.2	55.3	72.2	117.2	132.1	83.9	57.3	74.2	57.3	55.8	27.1
85°	0.0	2.6	46.6	72.7	53.7	18.4	24.1	24.6	16.9	15.9	10.7
87.5°	0.0	0.0	14.3	13.8	2.0	3.1	5.6	8.2	6.7	6.7	5.6
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°	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9	990.9
2.5°	1010.3	982.7	930.5	879.3	836.3	801.0	769.3	756.5	746.2	744.7	736.5
5°	1055.4	999.6	899.8	817.9	763.1	724.2	691.0	670.5	654.6	648.5	642.8
7.5°	1123.4	1039.0	895.7	801.5	736.0	670.5	609.1	542.5	501.1	485.2	476.0
10°	1206.4	1091.2	911.0	796.9	682.3	544.1	442.2	357.8	323.5	312.2	309.1
12.5°	1303.1	1156.2	937.7	768.2	567.6	386.4	305.0	276.4	268.7	265.1	265.1
15°	1414.2	1227.3	956.6	685.3	419.7	292.3	264.1	250.8	242.6	238.0	238.5
17.5°	1527.8	1297.0	947.4	565.1	309.7	260.0	239.0	224.7	213.4	208.8	207.8
20°	1642.4	1361.4	896.2	420.7	262.1	235.9	212.4	196.5	185.3	180.7	179.6
22.5°	1761.2	1416.2	806.1	308.6	235.4	209.3	186.3	170.4	159.7	155.6	153.5
25°	1876.9	1460.7	680.2	249.8	210.4	184.3	162.2	147.4	137.7	133.6	133.1
27.5°	1984.8	1488.9	534.3	220.6	188.4	161.7	141.8	128.5	120.3	117.2	116.7
30°	2082.1	1491.4	395.1	199.1	168.9	142.3	123.9	112.1	104.9	101.9	100.8
32.5°	2180.4	1470.0	287.6	179.6	151.0	125.4	107.5	98.3	93.2	90.6	90.6
35°	2273.0	1420.3	224.2	162.8	133.6	109.0	94.7	88.0	85.0	82.4	82.4
37.5°	2363.6	1349.2	190.4	147.9	117.2	95.2	83.4	79.3	76.8	74.2	74.2
40°	2455.7	1259.6	173.0	134.1	103.9	84.5	74.2	70.6	68.1	66.0	65.5
42.5°	2568.8	1156.2	161.7	121.3	92.1	74.7	65.5	61.4	59.4	57.3	56.3
45°	2699.9	1067.1	152.5	108.5	82.4	66.5	56.8	52.7	49.6	47.1	46.6
47.5°	2888.7	1002.7	140.2	94.7	73.2	57.8	49.1	44.5	39.9	37.4	36.9
50°	3129.8	949.4	124.4	82.4	64.0	49.1	40.9	35.3	31.2	28.7	28.7
52.5°	3249.6	879.8	110.0	71.7	53.7	41.5	33.3	26.6	24.6	22.0	22.0
55°	3297.7	826.6	95.7	60.9	44.5	34.3	26.1	20.5	18.9	17.4	16.9
57.5°	3432.8	811.2	83.4	51.7	36.9	27.1	20.0	15.4	14.3	12.3	12.3
60°	3650.3	818.9	72.2	44.0	29.7	21.0	14.8	11.8	10.7	8.7	8.7
62.5°	3885.2	809.2	60.9	37.9	23.0	15.4	10.2	8.7	8.7	5.1	4.6
65°	3930.3	720.6	52.2	31.2	17.9	11.3	6.7	5.6	7.7	1.0	0.0
67.5°	3647.8	558.9	45.0	24.1	13.3	8.7	5.1	2.6	6.7	0.0	0.0
70°	2916.9	355.2	36.3	17.4	10.2	7.2	4.1	1.0	5.1	0.0	0.0
72.5°	2062.6	206.3	28.7	12.3	8.7	5.6	3.1	0.0	3.1	0.0	0.0
75°	1043.1	110.0	17.9	9.2	6.7	4.1	2.0	0.0	0.5	0.0	0.0
77.5°	225.7	51.2	11.3	6.7	4.6	2.6	1.0	0.0	0.0	0.0	0.0
80°	49.1	22.5	7.2	4.1	2.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.9	11.8	3.6	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	6.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	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)