

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: P650647

Luminaire Tested: **GLAN-SA9B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35493.4 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

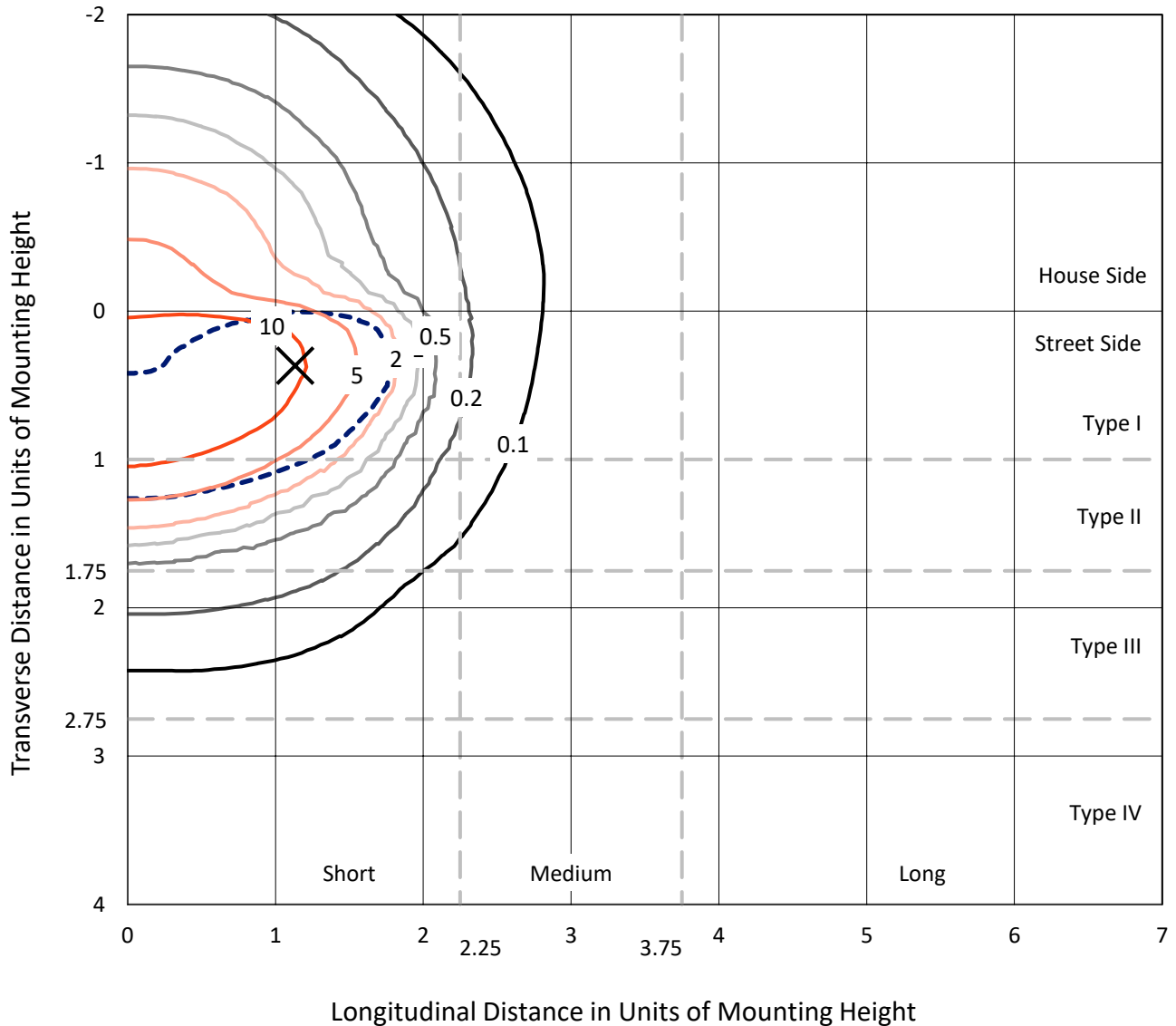
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

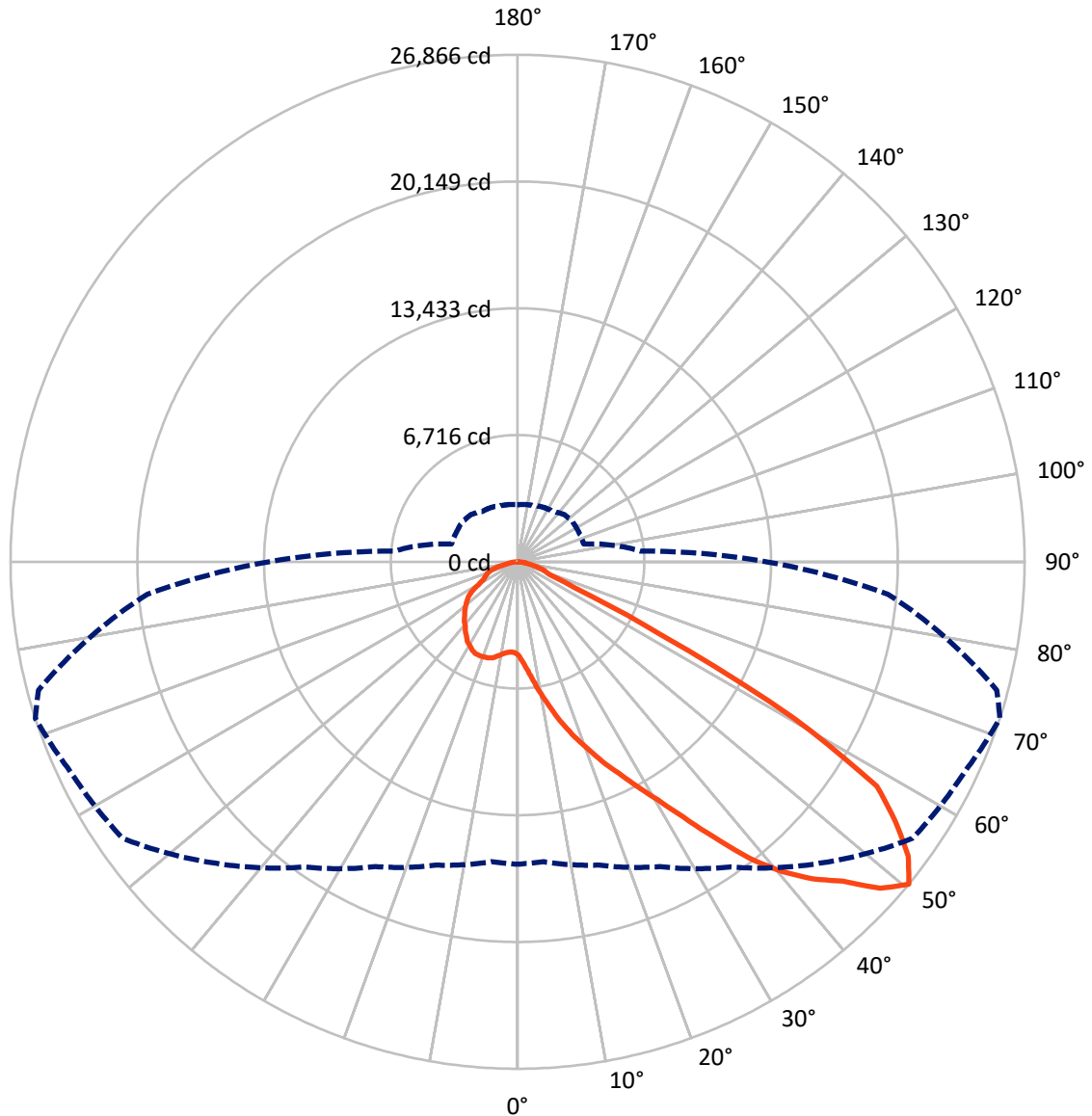
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8131.8	0.0	8131.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	27361.6	0.0	27361.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	35493.4	0.0	35493.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.2	1.6
10°-20°	2172.7	6.1
20°-30°	4212.6	11.9
30°-40°	6978.9	19.7
40°-50°	9765.0	27.5
50°-60°	8238.0	23.2
60°-70°	2510.9	7.1
70°-80°	880.9	2.5
80°-90°	153.2	0.4
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°	35493.4	100.0
0°-180°	35493.4	100.0

**Coefficient of Utilization**



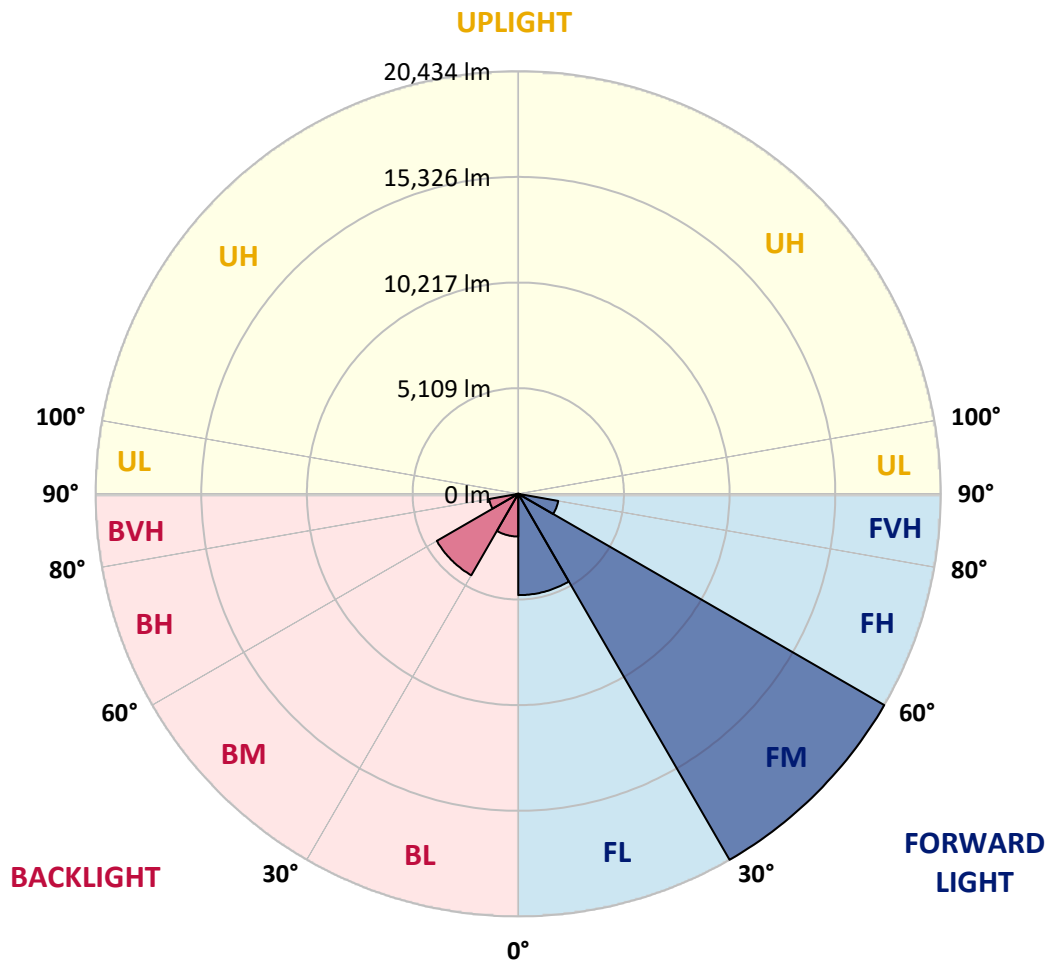
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4899.4	13.8			
FM (30°-60°)	20434.5	57.6			
FH (60°-80°)	1959.2	5.5			G2/5000
FVH (80°-90°)	68.6	0.2			G1/100
BL (0°-30°)	2067.1	5.8	B3/2500		
BM (30°-60°)	4547.4	12.8	B3/5000		
BH (60°-80°)	1432.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	84.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0
2.5°	6355.2	6315.7	6197.1	6157.6	6017.0	5762.3	5674.5	5415.3	5305.5	5204.5	5085.9
5°	8037.3	7852.9	7839.7	7615.7	7290.7	7101.8	6539.7	6162.0	5814.9	5639.3	5314.3
7.5°	9109.0	9113.3	9113.3	8928.9	8669.8	8191.0	7686.0	7005.2	6482.5	6223.4	5670.0
10°	10127.9	10040.1	9991.8	9974.2	9798.5	9333.0	8792.8	7949.5	7233.6	6930.6	5938.0
12.5°	10848.2	10773.5	10883.3	10826.2	10698.9	10395.8	9886.4	8924.5	8028.6	7620.1	6368.4
15°	11190.8	11243.5	11331.3	11489.4	11432.3	11318.1	10756.0	9925.9	8885.0	8423.8	6750.5
17.5°	11717.8	11572.9	11678.3	11875.9	12034.0	11981.3	11660.7	10650.6	9732.6	9166.0	7264.4
20°	12086.8	12003.3	12056.0	12284.4	12403.0	12701.6	12534.7	11599.2	10545.1	9947.9	7870.4
22.5°	13140.9	13017.8	12846.5	12881.7	12925.6	13136.4	13175.9	12640.1	11489.4	10857.0	8445.8
25°	14440.9	14326.6	14124.6	13918.2	13790.8	13751.3	13887.4	13457.0	12394.2	11739.8	9065.0
27.5°	15872.7	15679.4	15552.0	15126.0	14783.4	14730.7	14664.8	14432.1	13465.8	12758.8	9763.4
30°	17264.9	17111.1	16939.9	16259.2	15903.4	15846.3	15521.3	15587.2	14629.7	13843.5	10553.9
32.5°	18319.0	18332.1	17941.3	17427.4	17093.6	16790.6	16671.9	16860.8	16123.0	15490.6	11436.7
35°	19171.1	19210.5	18837.3	18371.7	18011.5	18222.4	18169.7	18257.4	17906.1	17133.1	12464.4
37.5°	20001.1	19803.5	19403.8	19179.8	18991.0	19337.9	19785.9	19860.6	19926.4	19017.3	13659.0
40°	20137.3	20154.8	19922.0	20080.2	19843.0	20365.6	21406.5	21309.9	21577.8	20782.9	14954.7
42.5°	19944.0	19983.5	20075.7	20299.7	20870.7	21498.8	23044.7	22649.4	22974.5	22267.3	16215.2
45°	19627.8	19465.3	19579.5	20431.5	21419.7	22816.4	24542.4	24234.9	24129.6	23536.7	17717.3
47.5°	18116.9	18283.8	18639.5	19689.2	21173.7	23044.7	25605.3	25535.0	25851.2	25434.0	19083.2
50°	16022.0	15956.1	16641.3	17822.6	19737.6	22596.8	25548.2	26185.0	26865.7	26286.0	19693.6
52.5°	11998.9	12350.3	12938.8	14405.7	17137.5	20154.8	24300.9	25363.7	25917.1	25794.1	19201.7
55°	7584.9	7690.4	8046.1	9789.8	12249.3	16175.7	20831.2	23295.1	24283.3	24744.4	18749.4
57.5°	3684.9	3487.2	3922.0	5323.1	7075.5	10878.9	16065.9	20291.0	22438.7	23273.1	17765.6
60°	1923.7	1998.4	2169.6	2670.3	3658.5	5648.1	10013.7	13523.0	16803.7	18086.2	13465.8
62.5°	1594.3	1620.7	1734.8	1985.1	2433.2	3250.1	5112.3	6592.4	8568.8	9723.8	7659.6
65°	1352.7	1365.9	1488.9	1655.8	1941.3	2288.2	2630.8	2753.8	3333.5	3421.3	2723.0
67.5°	1128.8	1141.9	1273.7	1431.8	1616.3	1708.5	1796.4	1787.5	1853.4	1827.1	1822.7
70°	869.6	882.8	1018.9	1185.9	1278.1	1225.4	1497.6	1559.2	1585.5	1607.5	1642.6
72.5°	628.0	654.4	759.8	878.4	830.1	953.1	1234.2	1326.4	1361.5	1374.7	1418.6
75°	456.8	465.6	491.9	456.8	527.0	663.2	869.6	983.8	1027.7	1040.9	1106.8
77.5°	202.0	206.4	210.8	263.6	338.2	412.9	518.3	610.5	672.0	689.5	707.1
80°	105.4	109.8	136.2	180.1	241.6	303.0	377.7	430.4	470.0	474.3	491.9
82.5°	65.9	70.2	96.6	127.4	171.3	224.0	276.7	320.6	351.3	355.7	360.2
85°	30.8	39.5	57.1	79.1	114.2	144.9	149.3	127.4	136.2	140.5	131.8
87.5°	8.8	13.2	17.5	13.2	17.5	17.5	21.9	26.4	26.4	26.4	30.8
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°	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0	4941.0
2.5°	5020.0	4980.5	4826.8	4769.7	4620.4	4646.7	4567.6	4563.2	4545.7	4541.3	4536.9
5°	5143.0	5020.0	4835.6	4695.0	4611.6	4602.8	4545.7	4545.7	4563.2	4576.5	4545.7
7.5°	5345.1	5204.5	4892.7	4760.9	4686.3	4673.1	4633.6	4602.8	4642.3	4629.2	4594.0
10°	5577.9	5331.8	5002.5	4888.3	4765.3	4734.6	4734.6	4747.7	4681.9	4703.8	4668.7
12.5°	5837.0	5507.5	5143.0	5011.3	4866.3	4848.7	4840.0	4743.3	4778.5	4760.9	4673.1
15°	6166.4	5709.6	5323.1	5099.1	4976.1	4897.0	4782.9	4765.3	4743.3	4699.4	4659.9
17.5°	6522.1	5929.2	5406.5	5125.4	4941.0	4883.9	4796.0	4703.8	4637.9	4646.7	4615.9
20°	6825.2	6131.2	5437.3	5151.8	4914.7	4804.8	4668.7	4611.6	4541.3	4536.9	4532.6
22.5°	7185.3	6403.5	5481.2	5081.5	4835.6	4721.4	4629.2	4528.2	4479.9	4418.3	4449.1
25°	7615.7	6508.9	5490.0	5042.0	4778.5	4576.5	4528.2	4418.3	4400.8	4312.9	4330.5
27.5°	7927.6	6566.0	5419.7	4919.0	4646.7	4493.0	4405.2	4326.1	4295.4	4229.5	4211.9
30°	8344.7	6653.9	5270.4	4765.3	4514.9	4343.7	4291.0	4273.4	4185.5	4115.3	4106.5
32.5°	8819.1	6710.9	5173.8	4607.2	4378.8	4247.1	4273.4	4190.0	4080.1	4018.7	4001.1
35°	9196.8	6732.9	4932.2	4427.1	4286.6	4203.1	4172.4	4154.8	3996.7	3939.6	3895.7
37.5°	9772.2	6684.6	4730.2	4299.8	4185.5	4154.8	4128.4	4009.9	3829.8	3746.3	3684.9
40°	10444.1	6671.4	4471.0	4119.7	4088.9	4124.1	4045.1	3860.6	3610.2	3517.9	3474.1
42.5°	11089.8	6763.6	4308.5	4023.1	3983.5	3996.7	3886.9	3610.2	3487.2	3434.6	3364.2
45°	12170.2	6956.9	4040.6	3873.7	3856.2	3847.3	3715.6	3425.8	3355.5	3289.6	3276.4
47.5°	13145.2	6829.6	3869.4	3720.0	3737.6	3689.3	3408.2	3315.9	3236.9	3171.0	3149.1
50°	13202.3	6526.5	3627.8	3601.4	3605.8	3522.4	3254.5	3193.0	3092.0	3048.1	3017.3
52.5°	12903.7	6030.2	3403.8	3412.5	3425.8	3289.6	3065.6	3021.7	2938.2	2876.7	2859.2
55°	12064.8	5257.2	3184.2	3219.3	3254.5	2995.4	2925.1	2815.3	2749.3	2661.6	2666.0
57.5°	10628.6	4233.8	2876.7	2933.8	3008.5	2723.0	2670.3	2534.2	2437.6	2367.2	2358.5
60°	7123.8	3012.9	2415.6	2437.6	2604.4	2490.3	2485.9	2349.7	2217.9	2156.5	2121.3
62.5°	4203.1	2301.4	2086.2	2064.2	2059.8	2125.7	2235.5	2187.2	2015.9	1897.4	1932.4
65°	2200.4	1989.6	1941.3	1866.6	1822.7	1805.1	1888.5	1910.5	1796.4	1669.0	1660.2
67.5°	1849.1	1849.1	1809.5	1783.1	1721.7	1647.0	1594.3	1524.0	1506.4	1471.3	1427.4
70°	1682.1	1726.0	1712.9	1651.4	1598.7	1515.3	1379.1	1264.9	1155.1	1115.5	1141.9
72.5°	1467.0	1510.9	1510.9	1480.1	1409.8	1282.5	1150.7	1018.9	926.7	856.4	847.7
75°	1128.8	1150.7	1203.4	1168.2	1076.0	997.0	860.8	724.7	636.8	571.0	557.8
77.5°	720.3	755.4	755.4	751.1	685.1	610.5	522.7	426.0	360.2	311.9	298.6
80°	478.7	500.7	518.3	500.7	456.8	399.6	333.8	267.9	219.6	180.1	171.3
82.5°	351.3	377.7	390.9	373.3	329.4	285.5	237.2	188.9	140.5	109.8	101.0
85°	136.2	140.5	158.1	188.9	184.5	180.1	144.9	105.4	79.1	57.1	52.7
87.5°	35.2	30.8	35.2	35.2	30.8	26.4	26.4	26.4	26.4	13.2	17.5
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)