

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: P652833

Luminaire Tested: **GLAN-SA4C-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22894.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

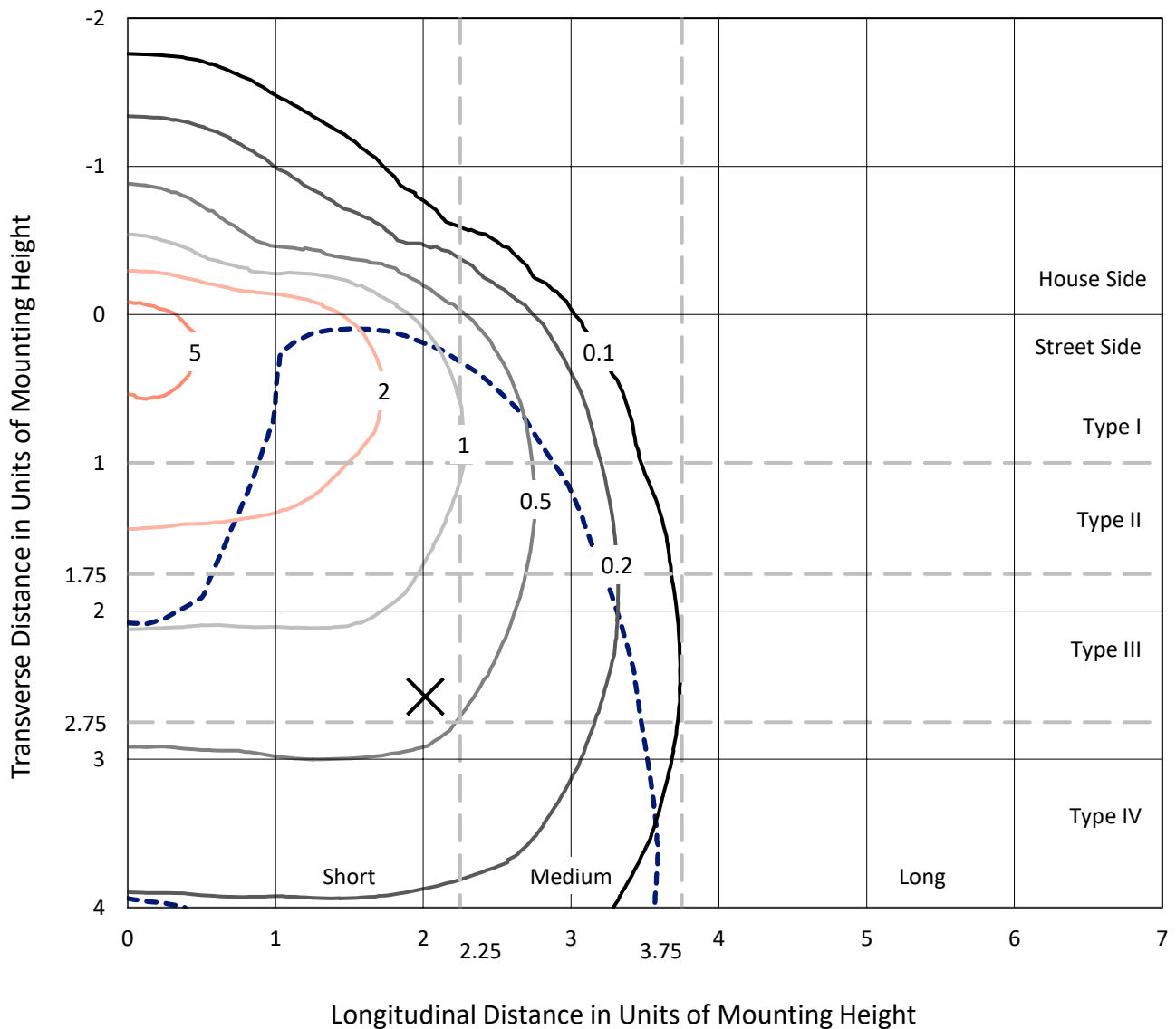
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

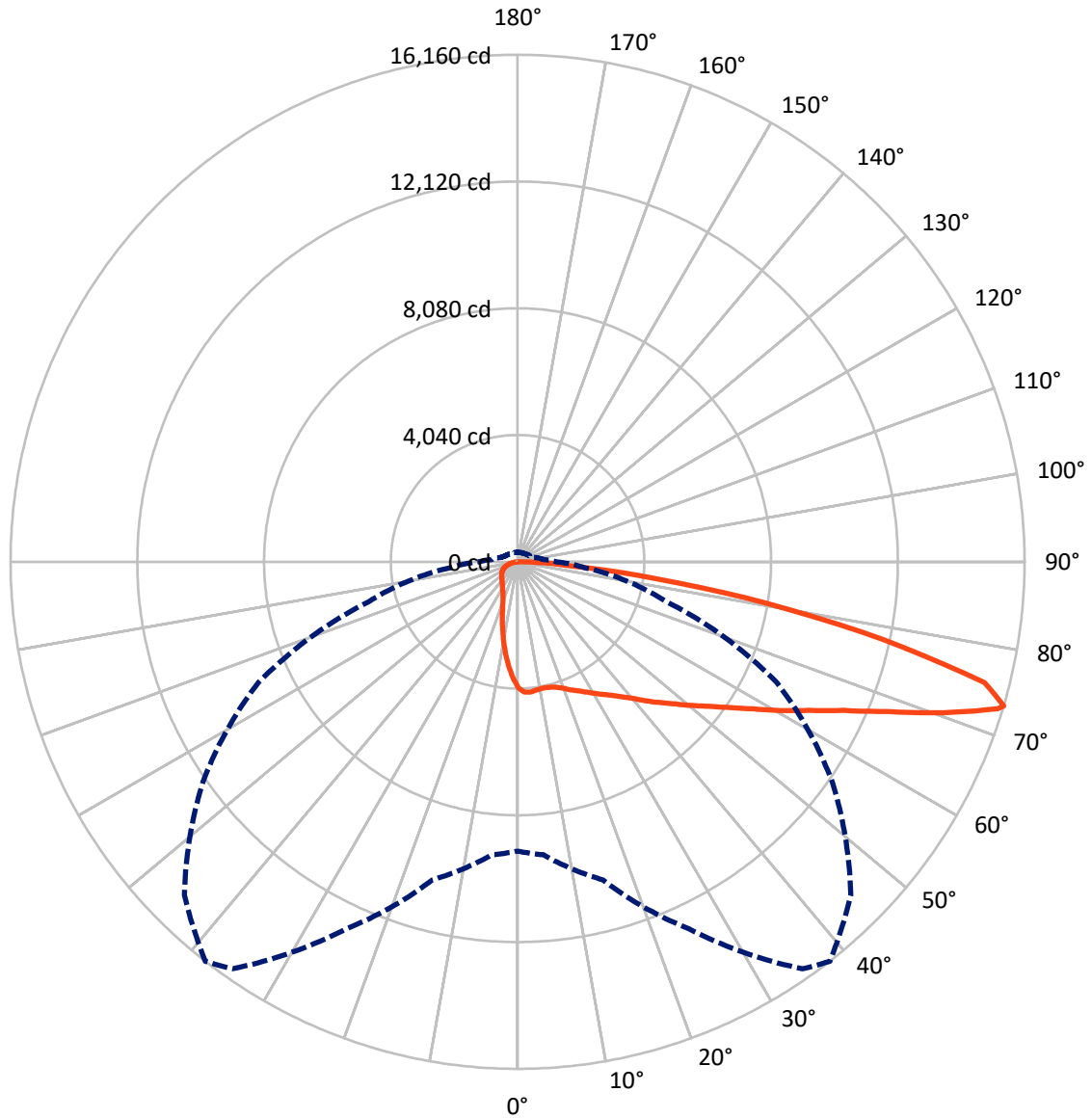
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3077.7	0.0	3077.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19816.8	0.0	19816.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	22894.5	0.0	22894.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	1.5
10°-20°	900.3	3.9
20°-30°	1402.0	6.1
30°-40°	2056.4	9.0
40°-50°	3050.4	13.3
50°-60°	4321.8	18.9
60°-70°	5482.3	23.9
70°-80°	4563.6	19.9
80°-90°	766.8	3.3
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°	22894.5	100.0
0°-180°	22894.5	100.0

Coefficient of Utilization



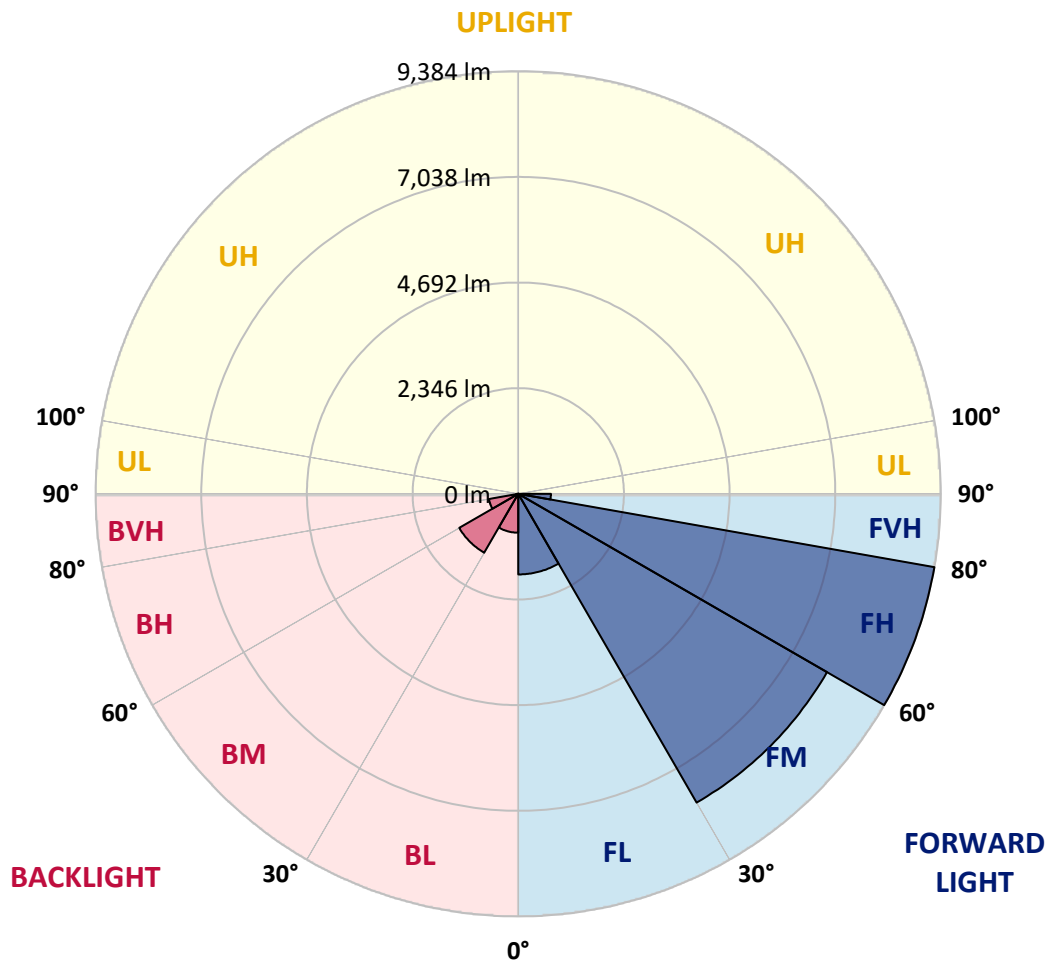
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.7	7.8			
FM (30°-60°)	7917.5	34.6			
FH (60°-80°)	9384.4	41.0			G4/12000
FVH (80°-90°)	725.2	3.2			G4/750
BL (0°-30°)	863.6	3.8	B2/1000		
BM (30°-60°)	1511.0	6.6	B2/2500		
BH (60°-80°)	661.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	41.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2
2.5°	4183.8	4204.5	4194.2	4179.9	4170.9	4161.9	4148.9	4111.4	4081.6	4049.3	3998.9
5°	4214.8	4227.8	4218.7	4200.6	4179.9	4170.9	4146.3	4097.2	4049.3	3995.0	3920.1
7.5°	4196.8	4201.9	4191.5	4169.6	4151.5	4134.7	4106.2	4051.9	3993.7	3927.8	3829.6
10°	4132.1	4151.5	4151.5	4133.3	4115.3	4106.2	4077.8	4026.0	3973.1	3898.0	3781.7
12.5°	4079.1	4099.8	4116.5	4111.4	4110.1	4110.1	4088.1	4049.3	3987.3	3916.2	3777.9
15°	4042.9	4067.4	4103.7	4124.3	4137.2	4141.2	4132.1	4098.4	4035.1	3952.4	3793.3
17.5°	4035.1	4064.9	4130.8	4176.1	4209.6	4208.4	4205.8	4159.2	4089.4	4004.1	3812.8
20°	4070.0	4108.8	4200.6	4271.7	4320.8	4311.8	4297.6	4236.8	4155.4	4059.7	3830.8
22.5°	4174.7	4214.8	4315.7	4393.2	4441.1	4441.1	4398.4	4318.3	4231.7	4124.3	3855.4
25°	4324.8	4368.7	4476.0	4554.9	4576.8	4560.0	4517.3	4420.4	4320.8	4217.4	3907.1
27.5°	4508.3	4561.3	4660.9	4726.8	4720.4	4707.4	4663.4	4539.3	4439.8	4345.4	3995.0
30°	4737.2	4776.0	4879.4	4894.9	4871.6	4869.1	4807.0	4682.9	4589.8	4517.3	4120.5
32.5°	4953.1	4988.0	5070.7	5077.2	5035.8	5041.0	4982.8	4869.1	4816.0	4790.2	4331.2
35°	5181.9	5200.0	5271.1	5263.4	5236.2	5232.4	5209.1	5100.4	5117.2	5163.8	4629.9
37.5°	5373.2	5409.5	5449.5	5456.0	5454.7	5467.6	5483.2	5431.4	5528.4	5674.5	5021.6
40°	5549.1	5580.1	5639.6	5660.3	5710.7	5736.5	5789.5	5790.9	6014.5	6255.0	5503.8
42.5°	5668.0	5721.1	5832.3	5869.8	5992.5	6070.1	6149.0	6233.0	6557.5	6866.5	6072.7
45°	5771.4	5841.2	6026.2	6142.5	6309.3	6403.7	6570.5	6746.3	7213.0	7617.7	6650.6
47.5°	5927.9	5989.9	6202.0	6407.6	6659.7	6768.3	7017.8	7280.3	7890.5	8334.0	7204.0
50°	6145.1	6182.6	6398.5	6733.4	7055.3	7194.9	7524.6	7903.5	8614.5	9041.2	7690.1
52.5°	6423.1	6438.6	6610.5	7056.6	7480.7	7653.9	8090.9	8533.0	9248.1	9655.3	8075.4
55°	6751.5	6725.6	6860.0	7399.2	7966.8	8193.0	8662.4	9170.4	9960.5	10151.8	8355.9
57.5°	7076.0	7035.9	7143.2	7815.5	8566.7	8839.5	9386.4	9827.3	10596.5	10615.9	8552.5
60°	7419.9	7390.2	7518.1	8304.2	9302.4	9625.6	10131.1	10508.6	11212.0	10939.1	8583.5
62.5°	7772.9	7725.0	7907.3	8853.7	10131.1	10424.6	10914.6	11232.6	11815.7	11059.4	8284.9
65°	8115.5	8093.5	8375.4	9506.7	11074.9	11408.5	11884.3	12100.1	12299.3	10878.4	7544.0
67.5°	8480.1	8524.0	8974.0	10378.0	12305.8	12724.7	13237.9	13034.9	12437.6	10021.2	6353.3
70°	9036.0	9064.5	9760.1	11519.7	13892.1	14397.7	14645.8	13367.2	11770.5	8393.4	4776.0
72.5°	9275.2	9400.6	10462.0	12718.2	15694.4	16003.4	15119.1	12626.4	9805.3	5701.6	2509.5
73°	9222.2	9372.2	10494.4	12900.4	15835.4	16159.8	15018.2	12245.0	9114.8	4910.4	2151.4
75°	8561.5	8746.4	10074.2	12747.9	15561.3	15367.3	13397.0	10436.2	6159.3	2232.9	980.0
77.5°	6755.3	6808.4	7982.3	10294.0	12254.0	11894.6	10026.4	6522.6	2515.9	830.1	555.9
80°	3388.6	3583.9	4499.3	5896.8	8194.4	8076.7	6328.7	3084.9	1048.6	487.4	368.4
82.5°	1630.4	1768.7	2191.5	2875.4	4527.7	4420.4	3134.0	1686.0	665.8	284.4	217.2
85°	1049.8	1153.3	1395.1	1371.8	1861.7	1777.7	1407.9	1276.0	394.3	148.7	151.3
87.5°	693.0	758.9	910.2	727.9	677.5	612.8	621.9	718.9	77.5	56.9	20.7
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°	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2	4022.2
2.5°	3978.3	3961.4	3905.9	3851.5	3799.8	3750.7	3718.3	3675.7	3647.2	3655.0	3666.7
5°	3878.7	3841.2	3743.0	3647.2	3556.8	3449.4	3362.8	3293.0	3240.0	3220.6	3216.7
7.5°	3774.0	3710.6	3569.7	3405.5	3251.6	3118.4	2964.6	2888.3	2799.1	2768.1	2757.7
10°	3710.6	3625.3	3427.4	3198.6	2967.2	2746.1	2579.3	2443.5	2320.7	2297.4	2285.8
12.5°	3692.5	3580.1	3313.7	3018.9	2711.2	2439.7	2192.7	2014.4	1895.4	1868.2	1828.2
15°	3682.2	3542.5	3207.7	2837.9	2447.5	2116.5	1856.6	1648.4	1539.9	1467.5	1468.7
17.5°	3673.1	3499.8	3088.7	2640.1	2219.9	1838.5	1551.5	1364.0	1264.4	1225.7	1221.8
20°	3660.2	3449.4	2951.7	2431.9	1960.0	1585.1	1325.2	1185.6	1118.4	1086.1	1084.7
22.5°	3655.0	3400.3	2817.2	2219.9	1729.9	1389.8	1175.2	1077.0	1034.3	1012.3	1012.3
25°	3667.9	3365.4	2676.3	2018.2	1525.6	1223.1	1071.8	1004.6	980.0	968.4	964.5
27.5°	3708.0	3349.9	2536.6	1816.5	1338.1	1109.3	1002.0	955.5	937.4	928.3	929.6
30°	3784.3	3348.6	2399.6	1617.4	1198.5	1022.7	946.4	914.1	899.9	894.7	893.4
32.5°	3907.1	3377.0	2265.1	1453.2	1080.9	950.2	894.7	871.4	865.0	861.1	859.8
35°	4115.3	3457.2	2131.9	1303.2	990.4	885.7	845.5	833.9	824.9	828.7	830.1
37.5°	4395.8	3595.5	2005.3	1185.6	921.8	837.8	804.2	793.8	788.7	792.6	796.4
40°	4772.1	3794.7	1899.2	1091.2	872.7	797.7	768.0	758.9	753.8	760.2	761.5
42.5°	5187.1	4024.8	1811.3	1017.5	832.6	764.1	735.6	725.3	721.4	725.3	726.6
45°	5613.8	4292.4	1766.1	964.5	799.0	739.6	709.8	698.2	689.1	686.5	690.4
47.5°	6033.9	4525.1	1764.8	932.2	771.9	717.5	685.2	672.3	660.7	654.2	652.9
50°	6376.5	4710.0	1795.8	918.0	748.6	693.0	660.7	647.7	632.3	619.3	621.9
52.5°	6635.2	4830.2	1810.1	911.5	735.6	667.2	634.8	623.2	605.1	588.3	588.3
55°	6801.9	4858.7	1775.1	905.0	725.3	640.0	605.1	594.8	576.6	559.9	559.9
57.5°	6858.8	4770.7	1649.7	889.5	714.9	616.7	575.3	566.2	552.0	535.3	532.7
60°	6726.9	4473.4	1430.0	842.9	694.2	592.1	543.0	539.2	534.0	519.7	518.5
62.5°	6218.8	3842.4	1190.8	782.2	659.3	566.2	513.3	519.7	523.6	515.9	514.6
65°	5373.2	3119.8	1017.5	698.2	612.8	530.1	481.0	497.8	508.1	508.1	505.5
67.5°	4358.3	2395.8	857.1	625.8	554.6	481.0	444.7	457.7	465.4	462.9	469.3
70°	3097.7	1622.5	698.2	543.0	481.0	425.4	398.2	398.2	393.0	390.5	390.5
72.5°	1502.4	927.0	566.2	453.8	409.8	363.3	341.4	332.3	321.9	320.7	314.2
73°	1255.4	831.3	540.4	437.0	393.0	354.2	329.7	315.5	309.0	303.9	302.5
75°	764.1	630.9	451.2	368.4	334.9	305.1	283.2	270.2	263.7	259.9	258.6
77.5°	502.9	470.6	350.4	281.8	256.0	237.9	228.8	215.9	212.0	206.9	206.9
80°	374.9	359.4	250.8	199.1	183.6	168.1	165.5	162.9	152.6	146.1	143.5
82.5°	241.8	256.0	170.6	133.1	116.4	103.4	104.7	108.6	98.2	89.2	86.6
85°	172.0	184.9	103.4	60.8	49.1	42.6	47.9	42.6	44.0	34.9	28.4
87.5°	28.4	49.1	18.1	7.7	3.9	2.6	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)