

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: McGRAW-EDISON

Report Number: P453449

Luminaire Tested: **GALN-SA4C-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453449
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: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 22767 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

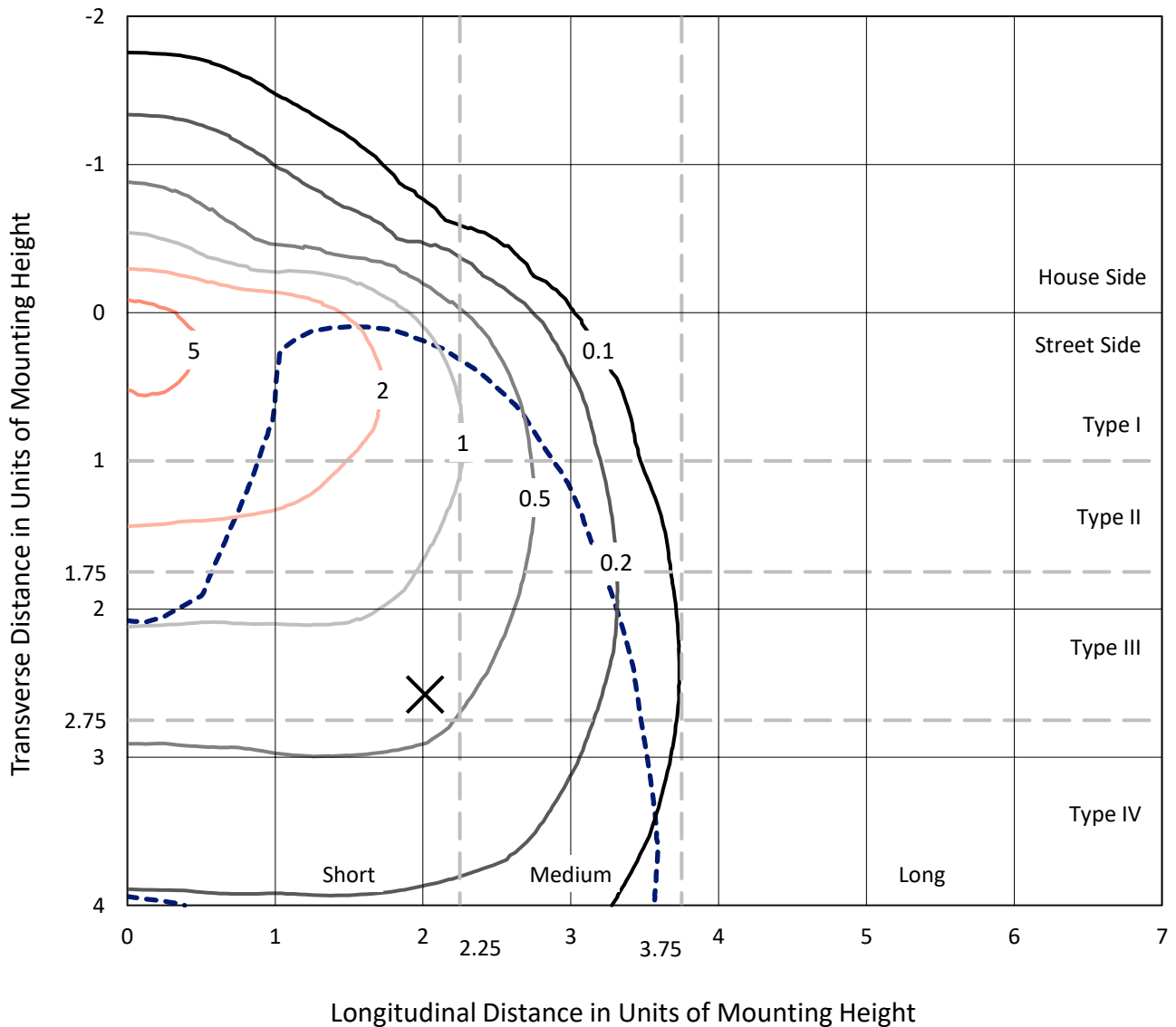
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

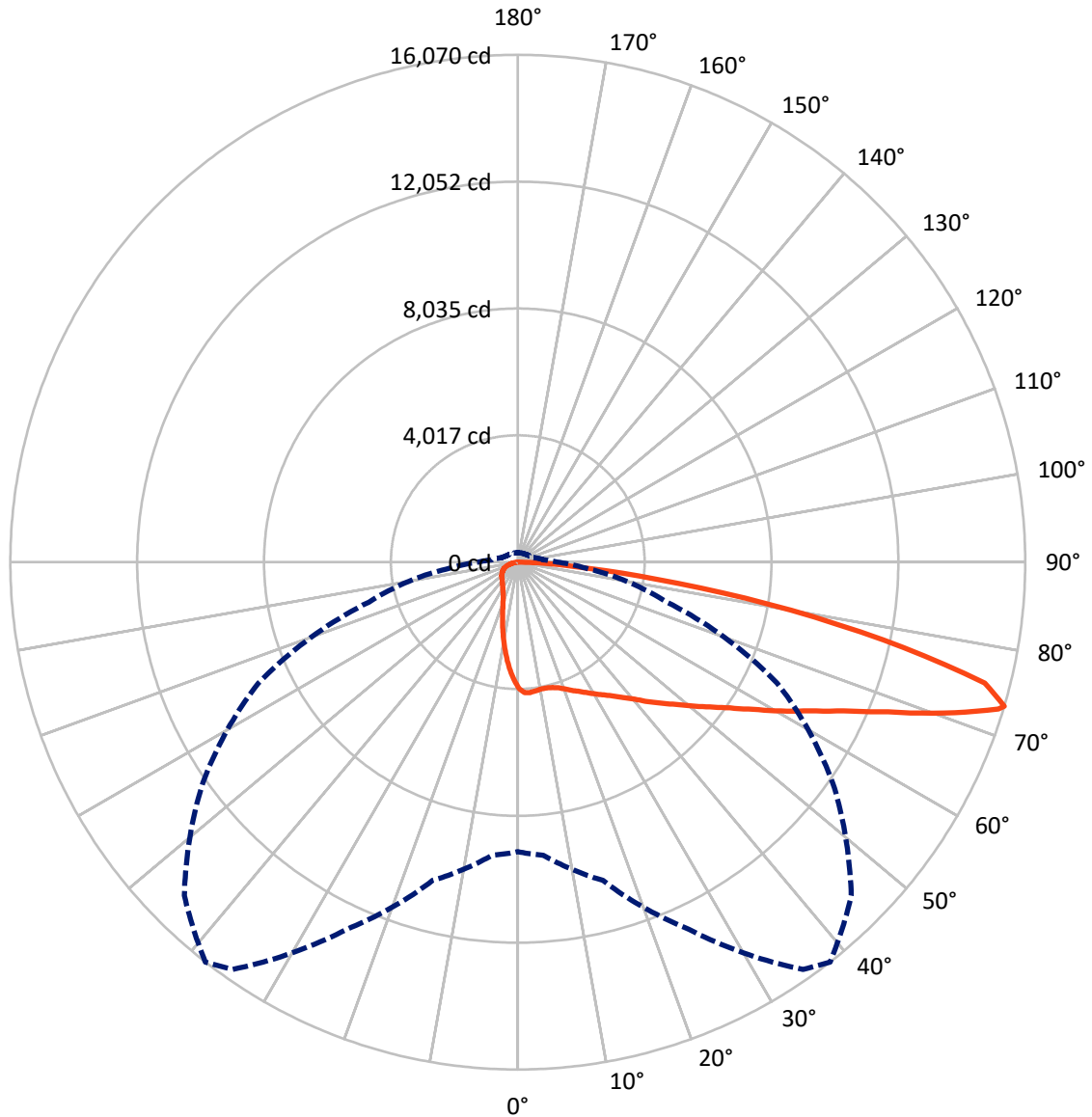
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	3060.6	0.0	3060.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19706.4	0.0	19706.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	22767.0	0.0	22767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.1	1.5
10°-20°	895.3	3.9
20°-30°	1394.2	6.1
30°-40°	2044.9	9.0
40°-50°	3033.4	13.3
50°-60°	4297.7	18.9
60°-70°	5451.8	23.9
70°-80°	4538.2	19.9
80°-90°	762.5	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°	22767.0	100.0
0°-180°	22767.0	100.0

Coefficient of Utilization



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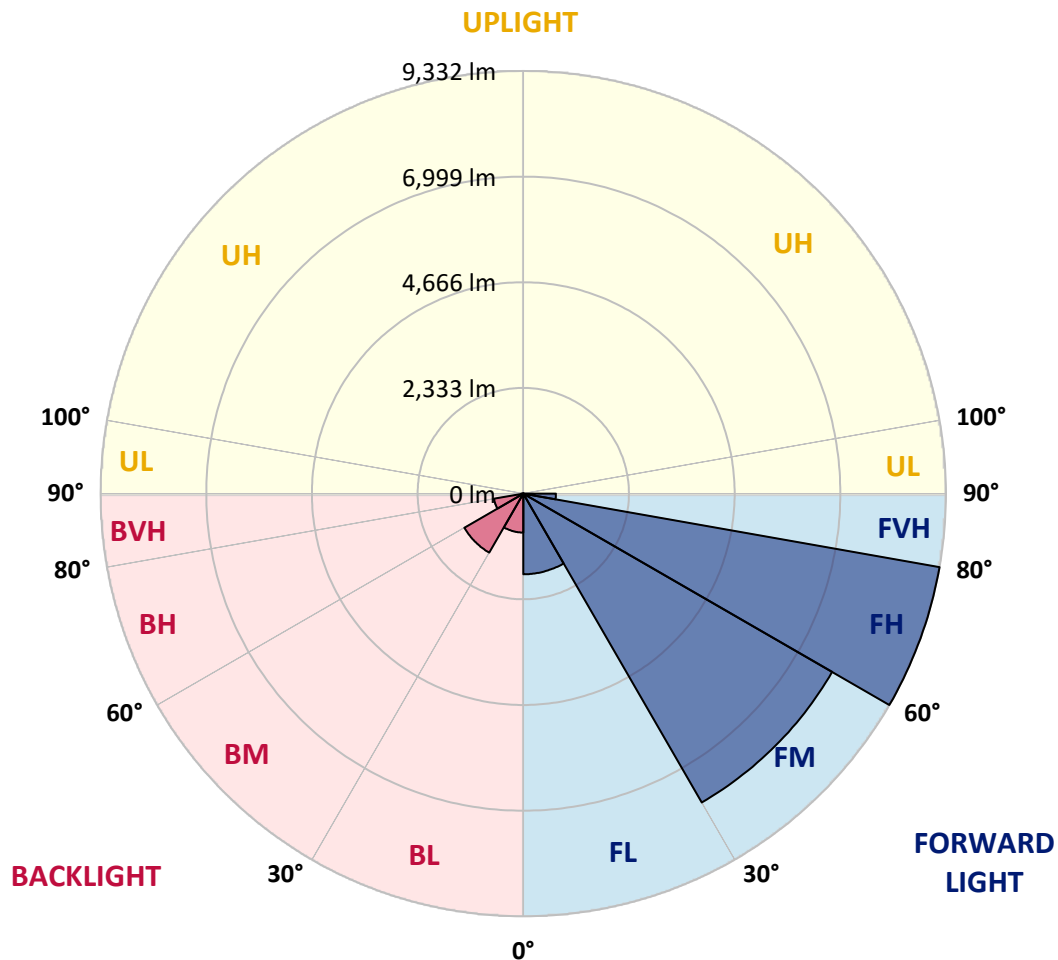
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1779.8	7.8			
FM	(30°-60°)	7873.4	34.6			
FH	(60°-80°)	9332.1	41.0			G4/12000
FVH	(80°-90°)	721.1	3.2			G4/750
BL	(0°-30°)	858.8	3.8	B2/1000		
BM	(30°-60°)	1502.5	6.6	B2/2500		
BH	(60°-80°)	657.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	41.4	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°	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8
2.5°	4160.5	4181.1	4170.8	4156.6	4147.6	4138.6	4125.8	4088.5	4058.9	4026.8	3976.6
5°	4191.3	4204.2	4195.2	4177.2	4156.6	4147.6	4123.2	4074.3	4026.8	3972.8	3898.2
7.5°	4173.3	4178.5	4168.2	4146.3	4128.3	4111.6	4083.3	4029.3	3971.5	3905.9	3808.2
10°	4109.1	4128.3	4128.3	4110.3	4092.3	4083.3	4055.1	4003.6	3950.9	3876.3	3760.6
12.5°	4056.3	4076.9	4093.6	4088.5	4087.2	4087.2	4065.3	4026.8	3965.1	3894.3	3756.8
15°	4020.3	4044.8	4080.8	4101.3	4114.2	4118.1	4109.1	4075.6	4012.6	3930.3	3772.2
17.5°	4012.6	4042.2	4107.8	4152.8	4186.2	4184.9	4182.3	4136.1	4066.6	3981.8	3791.5
20°	4047.3	4085.9	4177.2	4247.9	4296.8	4287.8	4273.6	4213.2	4132.2	4037.1	3809.5
22.5°	4151.5	4191.3	4291.6	4368.8	4416.3	4416.3	4373.9	4294.2	4208.1	4101.3	3833.9
25°	4300.6	4344.3	4451.1	4529.5	4551.3	4534.6	4492.2	4395.8	4296.8	4193.9	3885.3
27.5°	4483.2	4535.9	4634.9	4700.5	4694.0	4681.2	4637.5	4514.1	4415.1	4321.2	3972.8
30°	4710.8	4749.3	4852.2	4867.6	4844.5	4841.9	4780.2	4656.8	4564.2	4492.2	4097.5
32.5°	4925.5	4960.2	5042.5	5048.9	5007.8	5012.9	4955.0	4841.9	4789.2	4763.5	4307.1
35°	5153.0	5171.0	5241.8	5234.0	5207.0	5203.2	5180.0	5072.0	5088.8	5135.0	4604.0
37.5°	5343.3	5379.3	5419.2	5425.6	5424.3	5437.2	5452.6	5401.2	5497.6	5642.9	4993.6
40°	5518.2	5549.0	5608.2	5628.7	5678.9	5704.6	5757.3	5758.6	5981.0	6220.2	5473.2
42.5°	5636.5	5689.2	5799.7	5837.0	5959.2	6036.3	6114.7	6198.3	6521.0	6828.3	6038.9
45°	5739.3	5808.7	5992.6	6108.3	6274.2	6368.0	6533.9	6708.7	7172.9	7575.3	6613.6
47.5°	5894.9	5956.6	6167.4	6371.9	6622.6	6730.6	6978.7	7239.7	7846.6	8287.5	7163.9
50°	6110.9	6148.2	6362.9	6695.9	7016.0	7154.9	7482.7	7859.4	8566.5	8990.8	7647.3
52.5°	6387.3	6402.7	6573.7	7017.3	7439.0	7611.3	8045.8	8485.5	9196.5	9601.5	8030.4
55°	6713.9	6688.2	6821.9	7358.0	7922.4	8147.4	8614.1	9119.4	9904.9	10095.2	8309.4
57.5°	7036.6	6996.7	7103.4	7772.0	8519.0	8790.3	9334.1	9772.5	10537.5	10556.8	8504.8
60°	7378.6	7349.0	7476.3	8258.0	9250.5	9571.9	10074.7	10450.1	11149.5	10878.2	8535.7
62.5°	7729.6	7682.0	7863.3	8804.4	10074.7	10366.5	10853.8	11170.1	11749.9	10997.8	8238.7
65°	8070.3	8048.4	8328.7	9453.7	11013.2	11344.9	11818.0	12032.8	12230.8	10817.8	7502.0
67.5°	8432.8	8476.5	8924.0	10320.2	12237.2	12653.7	13164.2	12962.3	12368.3	9965.4	6317.9
70°	8985.7	9014.0	9705.7	11455.5	13814.7	14317.4	14564.3	13292.7	11704.9	8346.7	4749.3
72.5°	9223.5	9348.2	10403.8	12647.3	15607.0	15914.2	15034.8	12556.0	9750.7	5669.9	2495.5
73°	9170.8	9320.0	10435.9	12828.6	15747.1	16069.8	14934.6	12176.8	9064.1	4883.0	2139.4
75°	8513.8	8697.7	10018.1	12676.9	15474.5	15281.7	13322.3	10378.1	6125.0	2220.4	974.6
77.5°	6717.7	6770.4	7937.8	10236.6	12185.8	11828.3	9970.5	6486.3	2501.9	825.4	552.8
80°	3369.8	3563.9	4474.2	5864.0	8148.7	8031.7	6293.4	3067.7	1042.7	484.7	366.4
82.5°	1621.3	1758.8	2179.2	2859.4	4502.5	4395.8	3116.5	1676.5	662.1	282.9	216.0
85°	1044.0	1146.8	1387.3	1364.1	1851.4	1767.8	1400.1	1269.0	392.1	147.9	150.4
87.5°	689.1	754.7	905.1	723.8	673.7	609.4	618.4	714.8	77.1	56.6	20.6
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°	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8	3999.8
2.5°	3956.1	3939.3	3884.1	3830.1	3778.6	3729.8	3697.6	3655.2	3626.9	3634.6	3646.2
5°	3857.1	3819.8	3722.1	3626.9	3536.9	3430.2	3344.1	3274.6	3221.9	3202.6	3198.8
7.5°	3752.9	3689.9	3549.8	3386.5	3233.5	3101.1	2948.1	2872.2	2783.5	2752.7	2742.4
10°	3689.9	3605.1	3408.4	3180.8	2950.7	2730.8	2564.9	2430.0	2307.8	2284.7	2273.1
12.5°	3671.9	3560.1	3295.2	3002.1	2696.1	2426.1	2180.5	2003.1	1884.8	1857.8	1818.0
15°	3661.6	3522.8	3189.8	2822.1	2433.8	2104.7	1846.2	1639.3	1531.3	1459.3	1460.5
17.5°	3652.6	3480.4	3071.5	2625.4	2207.5	1828.2	1542.8	1356.4	1257.4	1218.8	1215.0
20°	3639.8	3430.2	2935.2	2418.4	1949.1	1576.3	1317.8	1179.0	1112.1	1080.0	1078.7
22.5°	3634.6	3381.4	2801.5	2207.5	1720.3	1382.1	1168.7	1071.0	1028.6	1006.7	1006.7
25°	3647.5	3346.6	2661.4	2007.0	1517.1	1216.3	1065.8	999.0	974.6	963.0	959.1
27.5°	3687.4	3331.2	2522.5	1806.4	1330.7	1103.1	996.4	950.1	932.1	923.1	924.4
30°	3763.2	3329.9	2386.2	1608.4	1191.8	1017.0	941.1	909.0	894.8	889.7	888.4
32.5°	3885.3	3358.2	2252.5	1445.1	1074.8	945.0	889.7	866.6	860.1	856.3	855.0
35°	4092.3	3437.9	2120.1	1296.0	984.8	880.7	840.8	829.3	820.3	824.1	825.4
37.5°	4371.3	3575.5	1994.1	1179.0	916.7	833.1	799.7	789.4	784.3	788.1	792.0
40°	4745.5	3773.5	1888.7	1085.1	867.8	793.3	763.7	754.7	749.6	756.0	757.3
42.5°	5158.2	4002.3	1801.2	1011.8	828.0	759.8	731.6	721.3	717.4	721.3	722.6
45°	5582.5	4268.5	1756.3	959.1	794.6	735.4	705.8	694.3	685.3	682.7	686.6
47.5°	6000.3	4499.9	1755.0	927.0	767.6	713.6	681.4	668.6	657.0	650.6	649.3
50°	6341.0	4683.8	1785.8	912.8	744.4	689.1	657.0	644.1	628.7	615.8	618.4
52.5°	6598.2	4803.3	1800.0	906.4	731.6	663.4	631.3	619.7	601.7	585.0	585.0
55°	6764.0	4831.6	1765.2	900.0	721.3	636.4	601.7	591.4	573.4	556.7	556.7
57.5°	6820.6	4744.2	1640.5	884.6	711.0	613.3	572.1	563.1	549.0	532.3	529.7
60°	6689.4	4448.5	1422.0	838.3	690.4	588.8	540.0	536.1	531.0	516.8	515.6
62.5°	6184.2	3821.1	1184.1	777.8	655.7	563.1	510.4	516.8	520.7	513.0	511.7
65°	5343.3	3102.4	1011.8	694.3	609.4	527.1	478.3	495.0	505.3	505.3	502.7
67.5°	4334.1	2382.4	852.4	622.3	551.6	478.3	442.3	455.1	462.8	460.3	466.7
70°	3080.5	1613.5	694.3	540.0	478.3	423.0	396.0	396.0	390.8	388.3	388.3
72.5°	1494.0	921.8	563.1	451.3	407.6	361.3	339.4	330.4	320.1	318.9	312.4
73°	1248.4	826.7	537.4	434.6	390.8	352.3	327.9	313.7	307.3	302.1	300.9
75°	759.8	627.4	448.7	366.4	333.0	303.4	281.6	268.7	262.3	258.4	257.1
77.5°	500.1	468.0	348.4	280.3	254.6	236.6	227.6	214.7	210.9	205.7	205.7
80°	372.8	357.4	249.4	198.0	182.6	167.1	164.6	162.0	151.7	145.3	142.7
82.5°	240.4	254.6	169.7	132.4	115.7	102.9	104.1	108.0	97.7	88.7	86.1
85°	171.0	183.9	102.9	60.4	48.9	42.4	47.6	42.4	43.7	34.7	28.3
87.5°	28.3	48.9	18.0	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)