

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: P453909

Luminaire Tested: **GALN-SA5A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19118 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

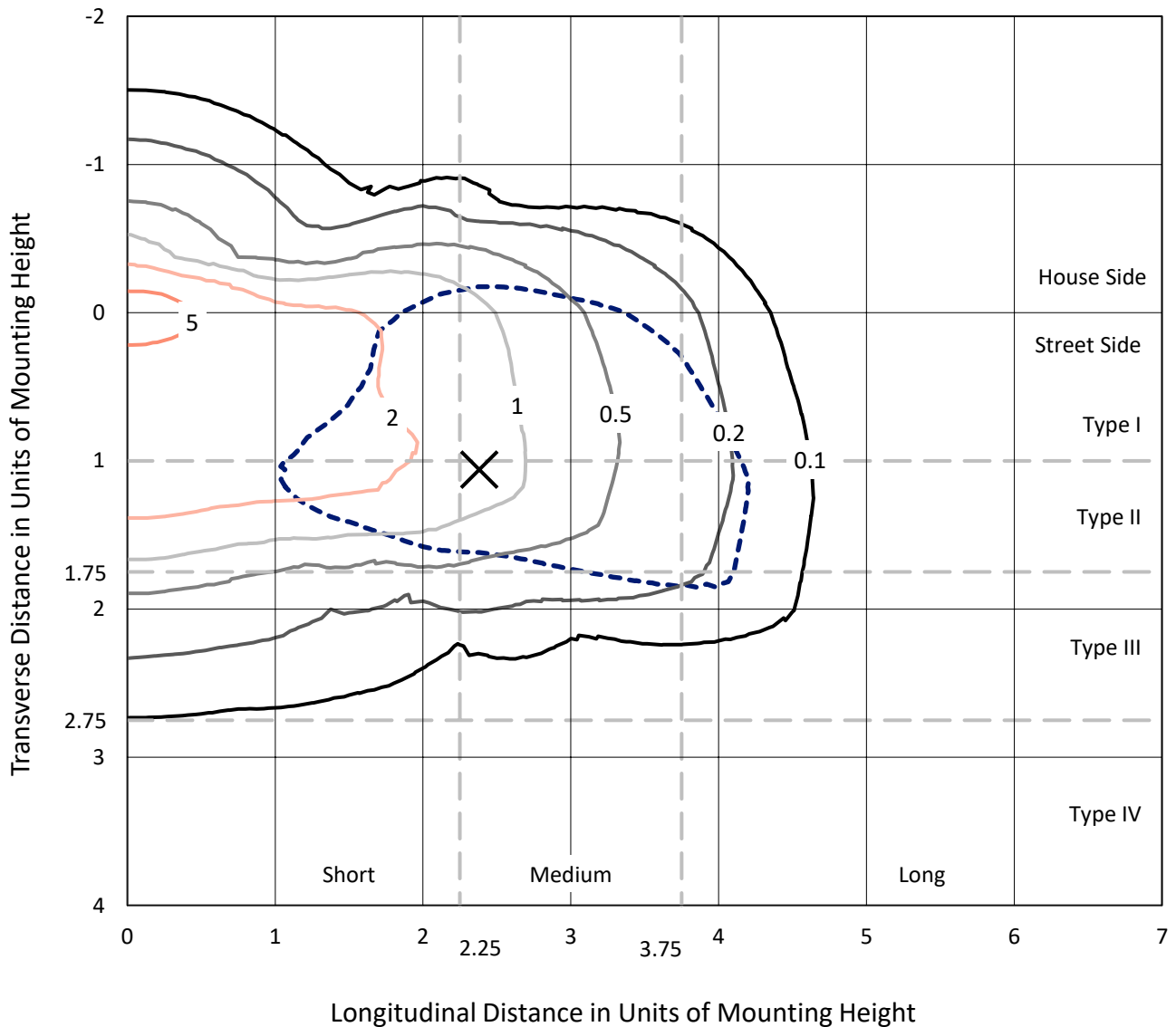
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

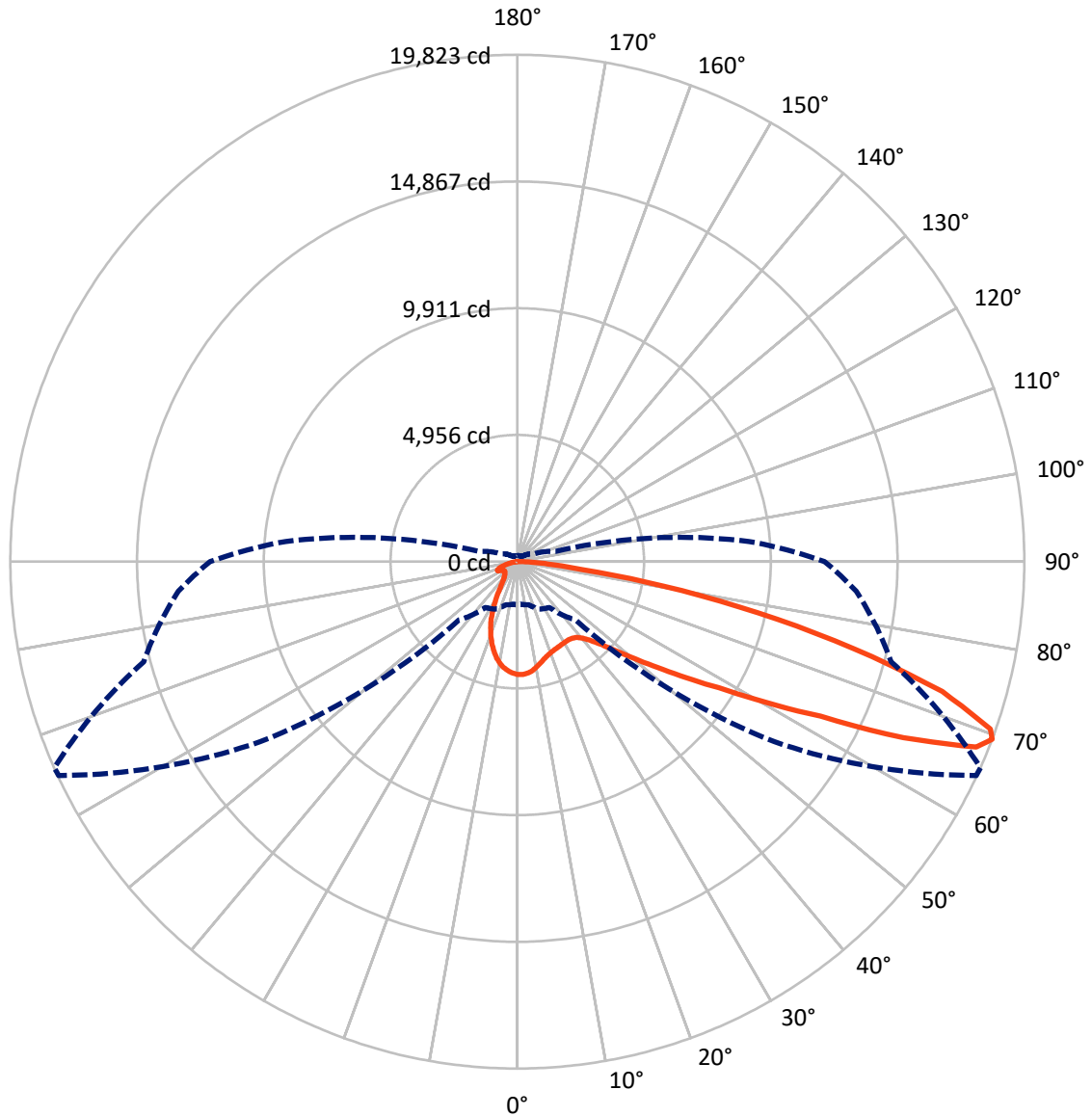
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3595.4	0.0	3595.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15522.6	0.0	15522.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	19118.0	0.0	19118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	2.0
10°-20°	909.4	4.8
20°-30°	1238.0	6.5
30°-40°	1663.6	8.7
40°-50°	2484.0	13.0
50°-60°	3951.2	20.7
60°-70°	4859.7	25.4
70°-80°	3162.0	16.5
80°-90°	466.9	2.4
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°	19118.0	100.0
0°-180°	19118.0	100.0

Coefficient of Utilization



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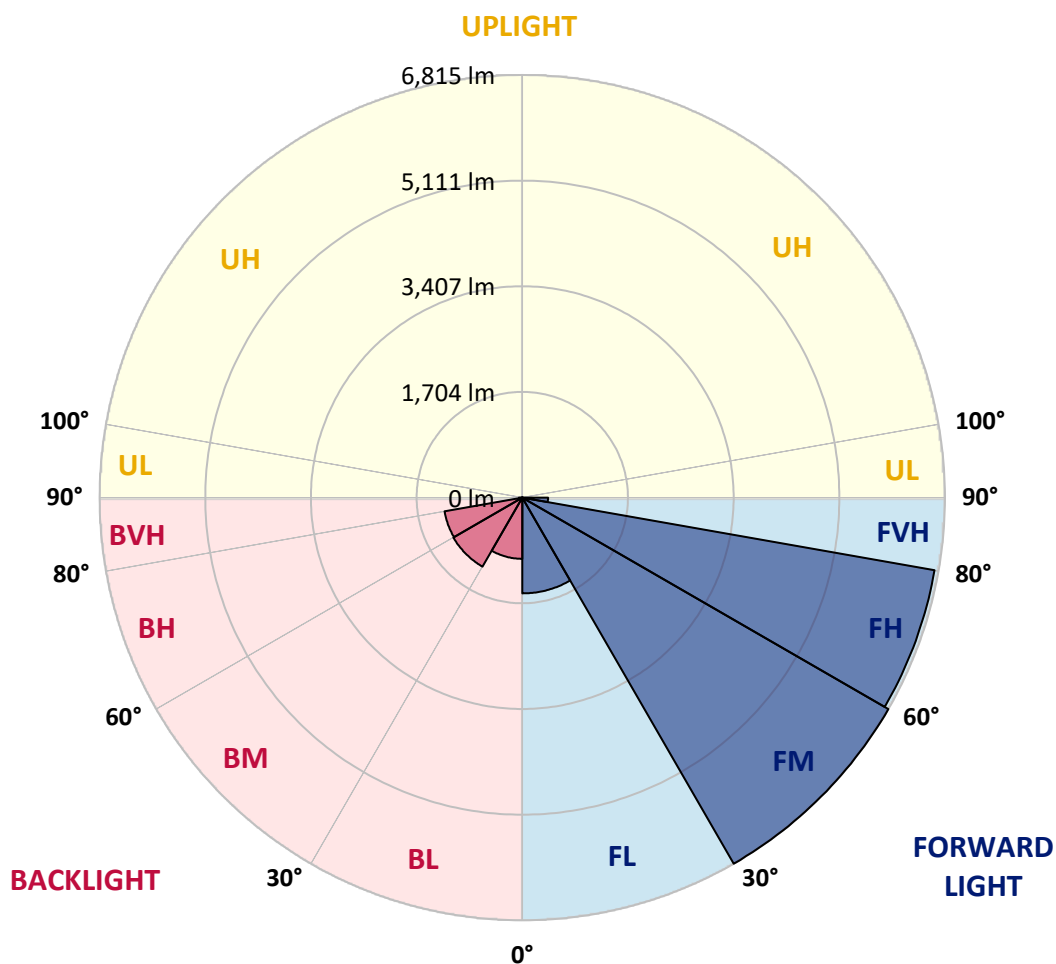
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.8	8.1			
FM	(30°-60°)	6815.0	35.6			
FH	(60°-80°)	6748.8	35.3			G3/7500
FVH	(80°-90°)	415.1	2.2			G3/500
BL	(0°-30°)	986.9	5.2	B2/1000		
BM	(30°-60°)	1283.7	6.7	B2/2500		
BH	(60°-80°)	1272.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	51.8	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9
2.5°	4260.3	4277.2	4296.3	4317.5	4357.7	4379.9	4395.8	4413.8	4415.9	4425.5	4418.1
5°	3945.9	3966.0	3994.6	4034.8	4095.1	4189.4	4286.8	4366.2	4375.7	4420.2	4432.9
7.5°	3683.3	3694.9	3718.2	3782.8	3868.6	3973.4	4115.3	4276.2	4299.5	4405.3	4442.4
10°	3469.4	3481.1	3508.6	3575.3	3660.0	3791.3	3946.9	4158.7	4177.7	4359.8	4444.5
12.5°	3309.6	3320.2	3349.8	3415.4	3512.8	3635.7	3807.2	4031.6	4059.1	4299.5	4424.4
15°	3187.8	3207.9	3232.3	3286.3	3389.0	3507.6	3673.8	3915.2	3937.4	4236.0	4410.6
17.5°	3135.9	3145.5	3162.4	3212.2	3287.3	3403.8	3571.1	3824.1	3850.6	4191.5	4407.5
20°	3138.1	3147.6	3150.8	3178.3	3232.3	3332.9	3498.0	3752.1	3783.9	4152.3	4412.8
22.5°	3210.0	3211.1	3199.5	3189.9	3211.1	3294.7	3446.1	3698.1	3735.2	4135.4	4417.0
25°	3321.2	3340.3	3323.3	3278.9	3239.7	3279.9	3426.0	3668.5	3703.4	4111.0	4411.7
27.5°	3501.2	3504.4	3490.6	3430.3	3328.6	3299.0	3417.6	3646.2	3675.9	4093.0	4385.2
30°	3742.6	3733.1	3720.4	3653.7	3493.8	3372.0	3435.6	3626.1	3656.8	4066.6	4353.5
32.5°	3987.2	4016.8	4005.2	3926.8	3719.3	3513.9	3493.8	3624.0	3649.4	4046.4	4318.5
35°	4246.5	4260.3	4315.4	4275.1	4062.3	3743.6	3602.8	3656.8	3676.9	4047.5	4294.2
37.5°	4449.8	4486.9	4616.0	4651.0	4450.9	4047.5	3779.6	3750.0	3758.5	4099.4	4303.7
40°	4695.4	4759.0	4925.2	5068.1	4936.8	4442.4	4080.3	3922.6	3933.2	4224.3	4366.2
42.5°	5006.7	5051.2	5274.6	5468.3	5447.1	4964.4	4444.5	4205.3	4210.5	4473.1	4540.9
45°	5370.9	5434.4	5685.3	5976.5	6026.3	5555.1	4970.7	4633.0	4629.8	4859.5	4867.0
47.5°	5836.7	5875.9	6124.7	6442.3	6643.5	6297.3	5609.1	5247.0	5213.2	5422.8	5362.4
50°	6265.5	6326.9	6515.4	6862.6	7363.4	7166.5	6448.7	6043.2	5963.8	6159.7	6058.0
52.5°	6445.5	6510.1	6668.9	7099.8	7980.7	8290.9	7514.8	6992.9	6860.5	7010.9	6973.8
55°	6133.2	6216.8	6365.0	6889.1	8251.7	9587.8	8952.6	8090.8	7994.4	7929.8	7940.4
57.5°	5293.6	5373.0	5573.1	6151.2	7927.7	10529.0	11005.4	9502.0	9295.6	8998.1	9048.9
60°	4029.5	4079.3	4183.0	4823.5	6967.5	10773.6	13336.7	11286.0	11154.7	10062.1	10098.1
62.5°	2861.7	2917.8	2989.8	3309.6	5100.9	10084.3	15162.0	13777.2	13308.2	11164.2	11129.3
65°	2323.9	2285.8	2372.6	2521.9	2993.0	7815.5	15572.8	17235.0	16589.1	12615.8	12130.9
67.5°	1911.0	1870.8	1956.5	2222.3	2276.3	4536.6	14092.7	19479.5	19350.3	14194.3	13148.3
69°	1691.8	1670.7	1745.8	2048.6	2185.2	3221.7	12277.0	19791.8	19822.5	15124.9	13305.0
70°	1524.6	1533.0	1606.1	1960.8	2143.9	2656.3	10493.0	19360.9	19621.3	15589.7	13135.6
72.5°	1122.2	1140.2	1241.9	1624.1	2104.7	2254.0	6244.4	16911.0	17371.5	15617.2	12016.5
75°	784.5	776.0	866.0	1222.8	1988.3	2233.9	3667.4	13078.4	13600.4	13498.7	10097.0
77.5°	513.5	527.2	599.2	863.9	1672.8	2217.0	2390.6	9278.7	9617.4	9027.7	5972.3
80°	362.1	361.0	401.3	589.7	1240.8	2130.2	1957.6	5848.4	5762.6	3547.8	1771.2
82.5°	207.5	222.3	268.9	415.0	830.0	1875.0	1800.9	2797.1	2553.6	1011.1	598.2
85°	115.4	120.7	159.9	250.9	484.9	1412.3	1572.2	1272.6	1200.6	422.4	257.3
87.5°	37.1	40.2	66.7	127.0	220.2	667.0	890.4	587.6	542.1	152.5	103.8
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°	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9	4414.9
2.5°	4421.2	4433.9	4400.1	4367.2	4337.6	4296.3	4259.2	4228.5	4207.4	4204.2	4193.6
5°	4436.1	4437.1	4372.5	4285.7	4201.0	4107.8	4011.5	3942.7	3878.1	3842.1	3824.1
7.5°	4446.6	4437.1	4320.7	4179.8	4016.8	3847.4	3678.0	3542.5	3437.7	3396.4	3412.3
10°	4442.4	4412.8	4242.3	4016.8	3779.6	3526.6	3283.1	3092.5	2917.8	2827.9	2830.0
12.5°	4419.1	4370.4	4125.8	3833.6	3485.3	3146.5	2773.9	2516.6	2314.4	2194.7	2157.7
15°	4399.0	4314.3	3989.3	3584.8	3151.8	2668.0	2213.8	1896.2	1726.8	1632.6	1631.5
17.5°	4377.8	4260.3	3840.0	3321.2	2768.6	2146.0	1669.6	1427.2	1347.8	1357.3	1341.4
20°	4355.6	4196.8	3684.4	3027.9	2301.7	1600.8	1250.4	1151.9	1174.1	1217.5	1223.9
22.5°	4330.2	4129.0	3517.1	2705.0	1810.4	1204.8	1014.3	999.4	1056.6	1124.4	1133.9
25°	4291.0	4044.3	3306.4	2367.3	1396.5	970.8	888.3	898.9	955.0	1012.1	1018.5
27.5°	4236.0	3939.5	3093.6	1945.9	1049.2	833.2	812.0	825.8	853.3	888.3	896.7
30°	4161.8	3820.9	2849.0	1581.7	840.6	764.4	755.9	763.3	779.2	794.0	798.3
32.5°	4087.7	3706.6	2602.3	1211.2	749.6	718.9	710.4	710.4	710.4	712.5	713.6
35°	4018.9	3598.6	2337.7	943.3	701.9	682.9	671.2	658.5	656.4	649.0	649.0
37.5°	3980.8	3500.1	2056.0	789.8	667.0	653.2	637.4	616.2	604.5	605.6	603.5
40°	3988.2	3435.6	1799.8	703.0	638.4	623.6	599.2	574.9	567.5	567.5	565.4
42.5°	4071.9	3414.4	1554.2	657.5	610.9	593.9	563.2	541.0	536.8	535.7	537.8
45°	4264.5	3466.3	1334.0	627.8	587.6	562.2	531.5	511.4	507.1	507.1	506.1
47.5°	4640.4	3634.6	1176.2	608.8	570.7	537.8	506.1	486.0	478.5	476.4	476.4
50°	5224.8	3999.9	1058.7	591.8	549.5	515.6	482.8	459.5	447.8	446.8	445.7
52.5°	6036.8	4569.5	1013.2	579.1	526.2	492.3	456.3	434.1	419.3	416.1	414.0
55°	6986.5	5364.6	1075.7	569.6	501.8	465.8	428.8	405.5	391.7	385.4	384.3
57.5°	8086.5	6319.5	1312.8	556.9	479.6	437.3	401.3	378.0	363.1	355.7	353.6
60°	9074.3	7301.0	1726.8	549.5	460.5	406.5	369.5	348.3	334.6	327.1	326.1
62.5°	10159.5	8236.9	2221.2	569.6	452.1	376.9	339.9	320.8	309.1	301.7	301.7
65°	11318.8	9173.8	2548.3	637.4	464.8	353.6	308.1	292.2	281.6	276.3	275.3
67.5°	12100.2	9497.8	2099.4	707.2	496.5	328.2	277.4	264.7	258.3	253.0	253.0
69°	12015.5	9088.1	1548.9	725.2	506.1	315.5	260.4	250.9	242.4	240.3	238.2
70°	11747.6	8621.2	1298.0	713.6	498.7	303.9	249.9	238.2	230.8	228.7	227.6
72.5°	10463.4	7476.7	966.6	620.4	424.5	263.6	221.3	210.7	204.3	201.2	201.2
75°	8693.2	6111.0	754.9	493.4	332.4	222.3	189.5	181.0	175.7	173.6	172.6
77.5°	4872.2	3412.3	542.1	386.4	252.0	180.0	158.8	151.4	146.1	144.0	144.0
80°	1357.3	975.1	318.7	255.2	171.5	136.6	126.0	120.7	113.3	108.0	111.2
82.5°	511.4	422.4	182.1	153.5	109.0	91.1	87.9	83.6	80.5	73.1	73.1
85°	248.8	205.4	116.5	81.5	60.3	47.6	45.5	43.4	41.3	36.0	37.1
87.5°	85.8	91.1	50.8	29.6	18.0	11.6	9.5	5.3	5.3	5.3	5.3
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)