

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: P458810

Luminaire Tested: **GALN-SA3C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458810
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-SA3C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 19515 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

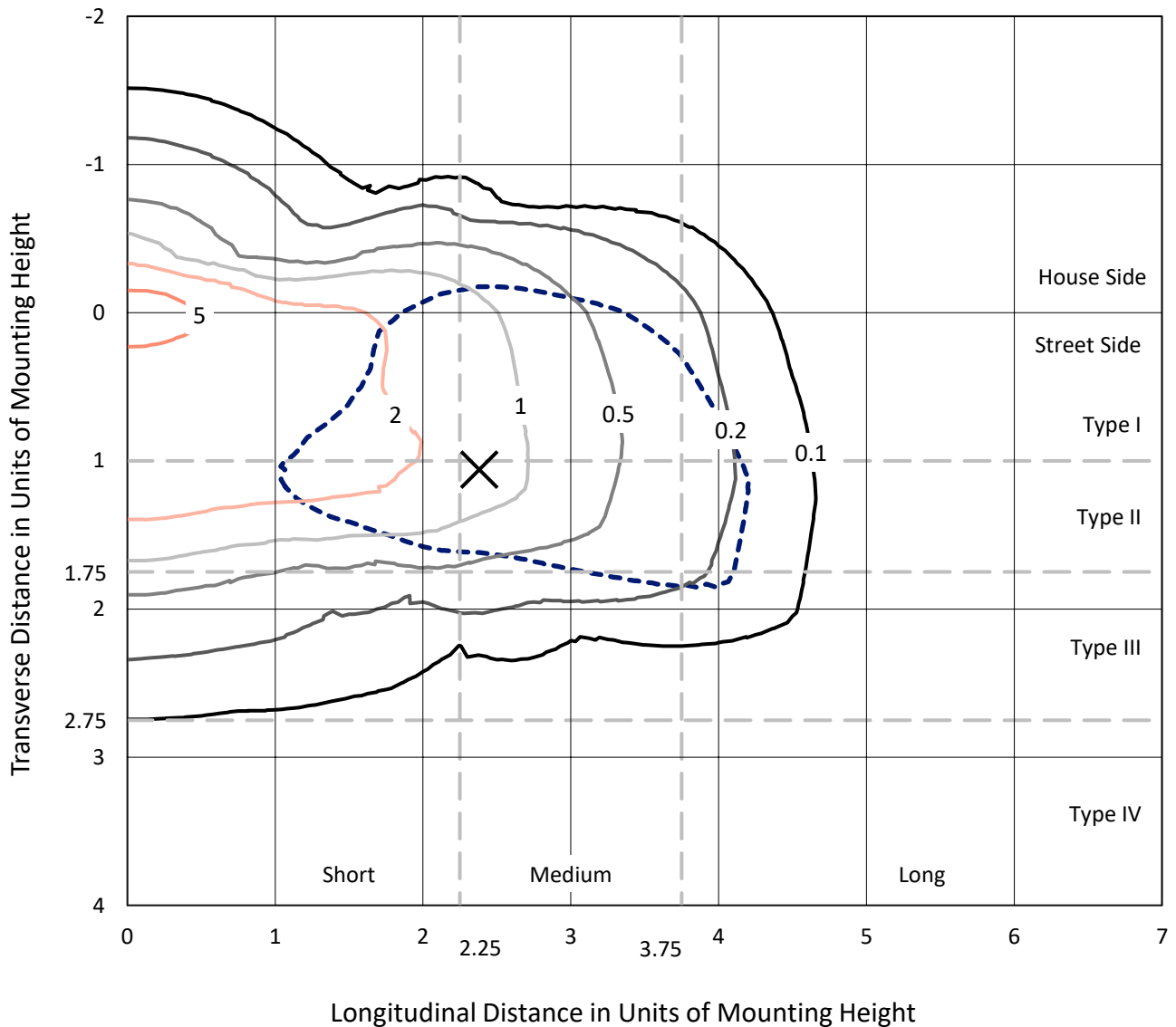
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458810
 CATALOG NUMBER: GALN-SA3C-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

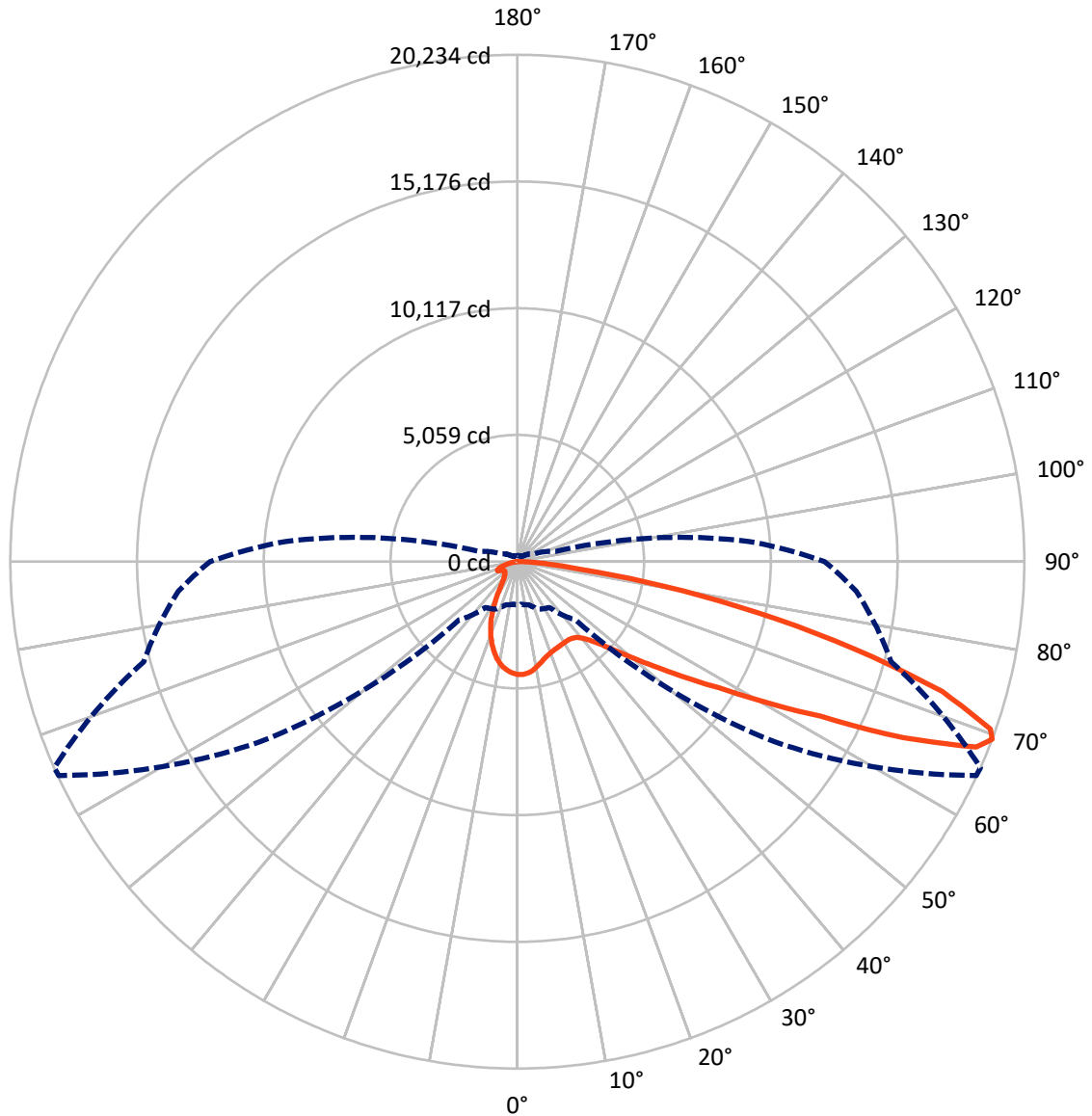
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P458810
CATALOG NUMBER: GALN-SA3C-735-U-SL2

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA3C-735-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3670.0	0.0	3670.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15845.0	0.0	15845.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	19515.0	0.0	19515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	2.0
10°-20°	928.2	4.8
20°-30°	1263.7	6.5
30°-40°	1698.1	8.7
40°-50°	2535.6	13.0
50°-60°	4033.2	20.7
60°-70°	4960.6	25.4
70°-80°	3227.6	16.5
80°-90°	476.6	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°	19515.0	100.0
0°-180°	19515.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458810

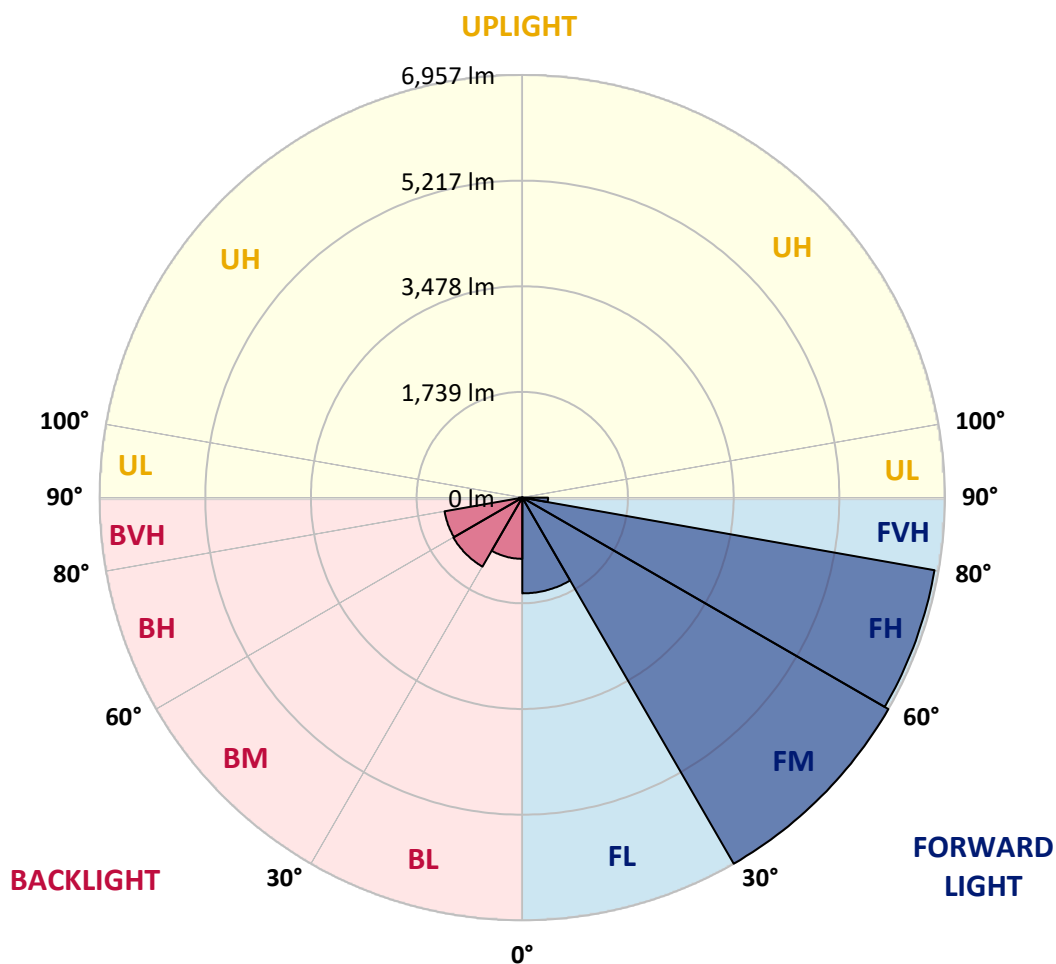
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1575.8	8.1			
FM (30°-60°)	6956.5	35.6			
FH (60°-80°)	6888.9	35.3			G3/7500
FVH (80°-90°)	423.7	2.2			G3/500
BL (0°-30°)	1007.4	5.2	B3/2500		
BM (30°-60°)	1310.4	6.7	B2/2500		
BH (60°-80°)	1299.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	52.9	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





REPORT NUMBER: P458810

CATALOG NUMBER: GALN-SA3C-735-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6
2.5°	4348.8	4366.1	4385.5	4407.1	4448.2	4470.9	4487.1	4505.5	4507.6	4517.4	4509.8
5°	4027.8	4048.3	4077.5	4118.6	4180.2	4276.4	4375.8	4456.8	4466.6	4512.0	4524.9
7.5°	3759.8	3771.7	3795.4	3861.4	3948.9	4055.9	4200.7	4365.0	4388.8	4496.8	4534.7
10°	3541.5	3553.4	3581.5	3649.6	3736.0	3870.0	4028.9	4245.0	4264.5	4450.4	4536.8
12.5°	3378.3	3389.1	3419.4	3486.4	3585.8	3711.2	3886.2	4115.3	4143.4	4388.8	4516.3
15°	3254.0	3274.5	3299.4	3354.5	3459.3	3580.4	3750.1	3996.5	4019.2	4323.9	4502.2
17.5°	3201.1	3210.8	3228.1	3278.9	3355.6	3474.5	3645.2	3903.5	3930.5	4278.5	4499.0
20°	3203.2	3212.9	3216.2	3244.3	3299.4	3402.1	3570.7	3830.0	3862.5	4238.5	4504.4
22.5°	3276.7	3277.8	3265.9	3256.2	3277.8	3363.2	3517.7	3774.9	3812.7	4221.2	4508.7
25°	3390.2	3409.6	3392.3	3347.0	3307.0	3348.0	3497.2	3744.7	3780.3	4196.4	4503.3
27.5°	3573.9	3577.1	3563.1	3501.5	3397.7	3367.5	3488.5	3722.0	3752.2	4178.0	4476.3
30°	3820.3	3810.6	3797.6	3729.5	3566.3	3442.1	3506.9	3701.4	3732.8	4151.0	4443.9
32.5°	4069.9	4100.2	4088.3	4008.3	3796.5	3586.9	3566.3	3699.3	3725.2	4130.5	4408.2
35°	4334.7	4348.8	4405.0	4363.9	4146.7	3821.4	3677.7	3732.8	3753.3	4131.5	4383.4
37.5°	4542.2	4580.0	4711.9	4747.6	4543.3	4131.5	3858.1	3827.9	3836.5	4184.5	4393.1
40°	4792.9	4857.8	5027.5	5173.4	5039.3	4534.7	4165.1	4004.0	4014.8	4312.0	4456.8
42.5°	5110.7	5156.1	5384.1	5581.9	5560.2	5067.4	4536.8	4292.6	4298.0	4566.0	4635.2
45°	5482.4	5547.3	5803.4	6100.6	6151.4	5670.5	5073.9	4729.2	4725.9	4960.5	4968.0
47.5°	5957.9	5997.9	6251.9	6576.1	6781.4	6428.1	5725.6	5356.0	5321.4	5535.4	5473.8
50°	6395.6	6458.3	6650.7	7005.2	7516.3	7315.3	6582.6	6168.7	6087.6	6287.6	6183.8
52.5°	6579.4	6645.3	6807.4	7247.2	8146.4	8463.0	7670.9	7138.1	7003.0	7156.5	7118.6
55°	6260.5	6345.9	6497.2	7032.2	8423.0	9786.9	9138.5	8258.8	8160.4	8094.5	8105.3
57.5°	5403.5	5484.6	5688.9	6278.9	8092.3	10747.6	11234.0	9699.4	9488.6	9184.9	9236.8
60°	4113.2	4164.0	4269.9	4923.7	7112.1	10997.3	13613.7	11520.4	11386.3	10271.1	10307.8
62.5°	2921.2	2978.4	3051.9	3378.3	5206.9	10293.8	15476.8	14063.3	13584.5	11396.1	11360.4
65°	2372.2	2333.3	2421.9	2574.2	3055.2	7977.8	15896.1	17592.9	16933.6	12877.7	12382.8
67.5°	1950.7	1909.6	1997.1	2268.4	2323.5	4630.8	14385.3	19884.0	19752.1	14489.1	13421.3
69°	1727.0	1705.4	1782.1	2091.2	2230.6	3288.6	12531.9	20202.8	20234.1	15439.0	13581.3
70°	1556.2	1564.9	1639.4	2001.5	2188.4	2711.5	10710.9	19762.9	20028.8	15913.4	13408.4
72.5°	1145.6	1163.9	1267.7	1657.8	2148.4	2300.8	6374.0	17262.2	17732.3	15941.5	12266.0
75°	800.8	792.2	884.0	1248.2	2029.6	2280.3	3743.6	13350.0	13882.8	13779.0	10306.7
77.5°	524.1	538.2	611.7	881.9	1707.5	2263.0	2440.2	9471.3	9817.2	9215.2	6096.3
80°	369.6	368.5	409.6	602.0	1266.6	2174.4	1998.2	5969.8	5882.3	3621.5	1808.0
82.5°	211.8	226.9	274.5	423.6	847.3	1913.9	1838.3	2855.2	2606.7	1032.1	610.6
85°	117.8	123.2	163.2	256.1	495.0	1441.7	1604.9	1299.0	1225.5	431.2	262.6
87.5°	37.8	41.1	68.1	129.7	224.8	680.8	908.9	599.8	553.3	155.6	105.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458810
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6	4506.6
2.5°	4513.0	4526.0	4491.4	4457.9	4427.7	4385.5	4347.7	4316.4	4294.7	4291.5	4280.7
5°	4528.2	4529.3	4463.3	4374.7	4288.3	4193.2	4094.8	4024.6	3958.6	3921.9	3903.5
7.5°	4539.0	4529.3	4410.4	4266.6	4100.2	3927.3	3754.4	3616.1	3509.1	3466.9	3483.1
10°	4534.7	4504.4	4330.4	4100.2	3858.1	3599.8	3351.3	3156.8	2978.4	2886.6	2888.7
12.5°	4510.9	4461.2	4211.5	3913.2	3557.7	3211.9	2831.5	2568.8	2362.4	2240.3	2202.5
15°	4490.3	4403.9	4072.1	3659.3	3217.3	2723.4	2259.8	1935.5	1762.6	1666.5	1665.4
17.5°	4468.7	4348.8	3919.7	3390.2	2826.1	2190.6	1704.3	1456.8	1375.7	1385.5	1369.3
20°	4446.0	4283.9	3760.9	3090.8	2349.5	1634.0	1276.3	1175.8	1198.5	1242.8	1249.3
22.5°	4420.1	4214.8	3590.1	2761.2	1848.0	1229.8	1035.3	1020.2	1078.5	1147.7	1157.4
25°	4380.1	4128.3	3375.1	2416.5	1425.5	991.0	906.7	917.5	974.8	1033.2	1039.6
27.5°	4323.9	4021.3	3157.8	1986.3	1071.0	850.5	828.9	843.0	871.1	906.7	915.4
30°	4248.3	3900.3	2908.2	1614.6	858.1	780.3	771.6	779.2	795.4	810.5	814.9
32.5°	4172.6	3783.6	2656.4	1236.3	765.1	733.8	725.2	725.2	725.2	727.3	728.4
35°	4102.4	3673.3	2386.2	962.9	716.5	697.1	685.2	672.2	670.0	662.5	662.5
37.5°	4063.5	3572.8	2098.7	806.2	680.8	666.8	650.6	629.0	617.1	618.2	616.0
40°	4071.0	3506.9	1837.2	717.6	651.7	636.5	611.7	586.8	579.3	579.3	577.1
42.5°	4156.4	3485.3	1586.5	671.1	623.6	606.3	574.9	552.2	547.9	546.8	549.0
45°	4353.1	3538.2	1361.7	640.9	599.8	573.9	542.5	522.0	517.7	517.7	516.6
47.5°	4736.7	3710.1	1200.7	621.4	582.5	549.0	516.6	496.0	488.5	486.3	486.3
50°	5333.3	4082.9	1080.7	604.1	560.9	526.3	492.8	469.0	457.1	456.1	455.0
52.5°	6162.2	4664.3	1034.2	591.1	537.1	502.5	465.8	443.1	428.0	424.7	422.6
55°	7131.6	5476.0	1098.0	581.4	512.3	475.5	437.7	413.9	399.9	393.4	392.3
57.5°	8254.5	6450.8	1340.1	568.5	489.6	446.3	409.6	385.8	370.7	363.1	361.0
60°	9262.8	7452.6	1762.6	560.9	470.1	415.0	377.2	355.6	341.5	333.9	332.9
62.5°	10370.5	8407.9	2267.3	581.4	461.5	384.7	346.9	327.5	315.6	308.0	308.0
65°	11553.9	9364.3	2601.3	650.6	474.4	361.0	314.5	298.3	287.5	282.1	281.0
67.5°	12351.4	9695.0	2143.0	721.9	506.9	335.0	283.1	270.2	263.7	258.3	258.3
69°	12265.0	9276.8	1581.1	740.3	516.6	322.1	265.9	256.1	247.5	245.3	243.2
70°	11991.5	8800.2	1324.9	728.4	509.0	310.2	255.0	243.2	235.6	233.4	232.4
72.5°	10680.6	7632.0	986.7	633.3	433.4	269.1	225.9	215.1	208.6	205.3	205.3
75°	8873.7	6237.9	770.5	503.6	339.3	226.9	193.4	184.8	179.4	177.2	176.2
77.5°	4973.4	3483.1	553.3	394.5	257.2	183.7	162.1	154.5	149.1	147.0	147.0
80°	1385.5	995.3	325.3	260.5	175.1	139.4	128.6	123.2	115.6	110.2	113.5
82.5°	522.0	431.2	185.9	156.7	111.3	92.9	89.7	85.4	82.1	74.6	74.6
85°	254.0	209.7	118.9	83.2	61.6	48.6	46.5	44.3	42.1	36.7	37.8
87.5°	87.5	92.9	51.9	30.3	18.4	11.9	9.7	5.4	5.4	5.4	5.4
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)