

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: P453360

Luminaire Tested: **GALN-SA4B-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16401 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

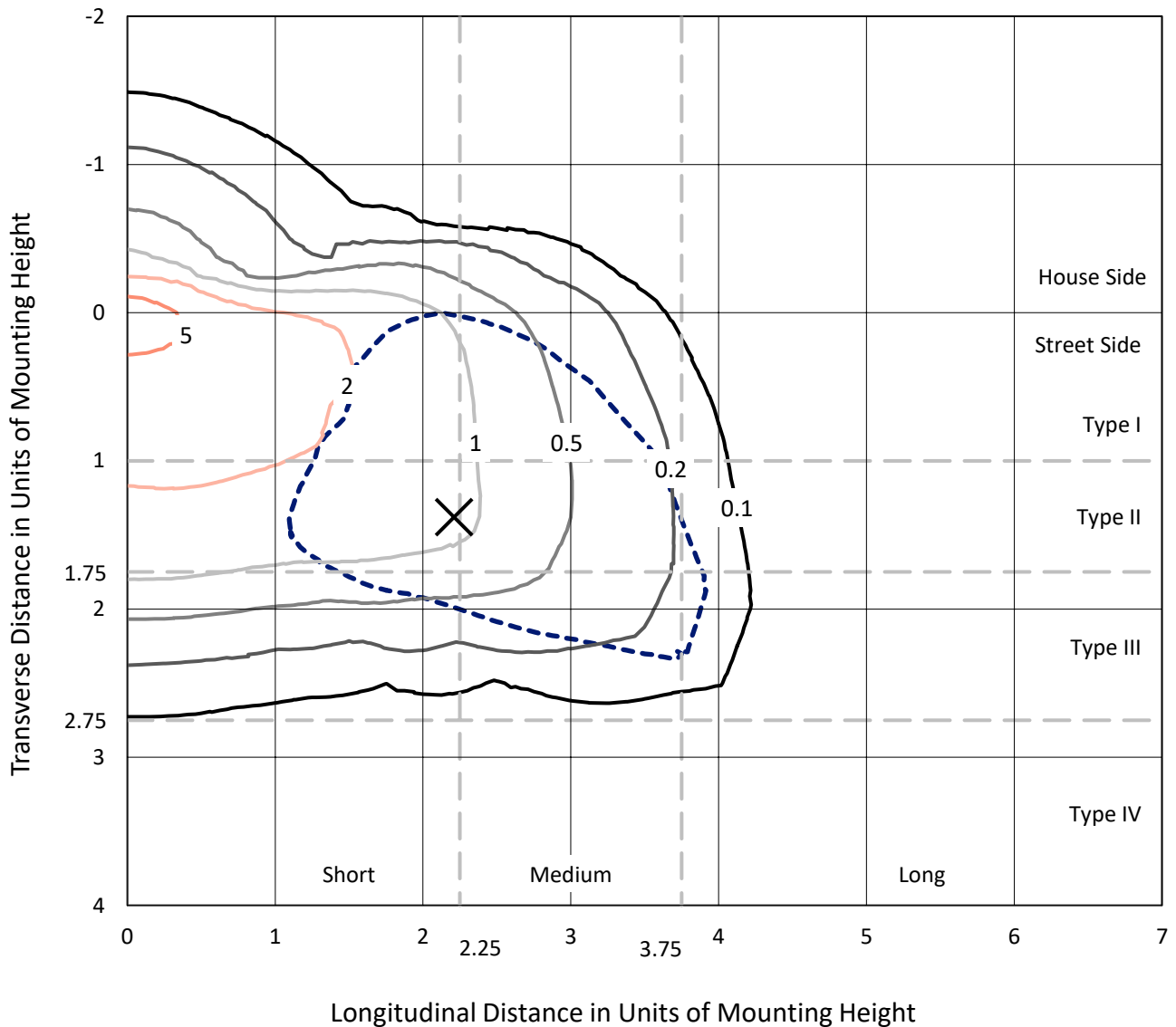
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

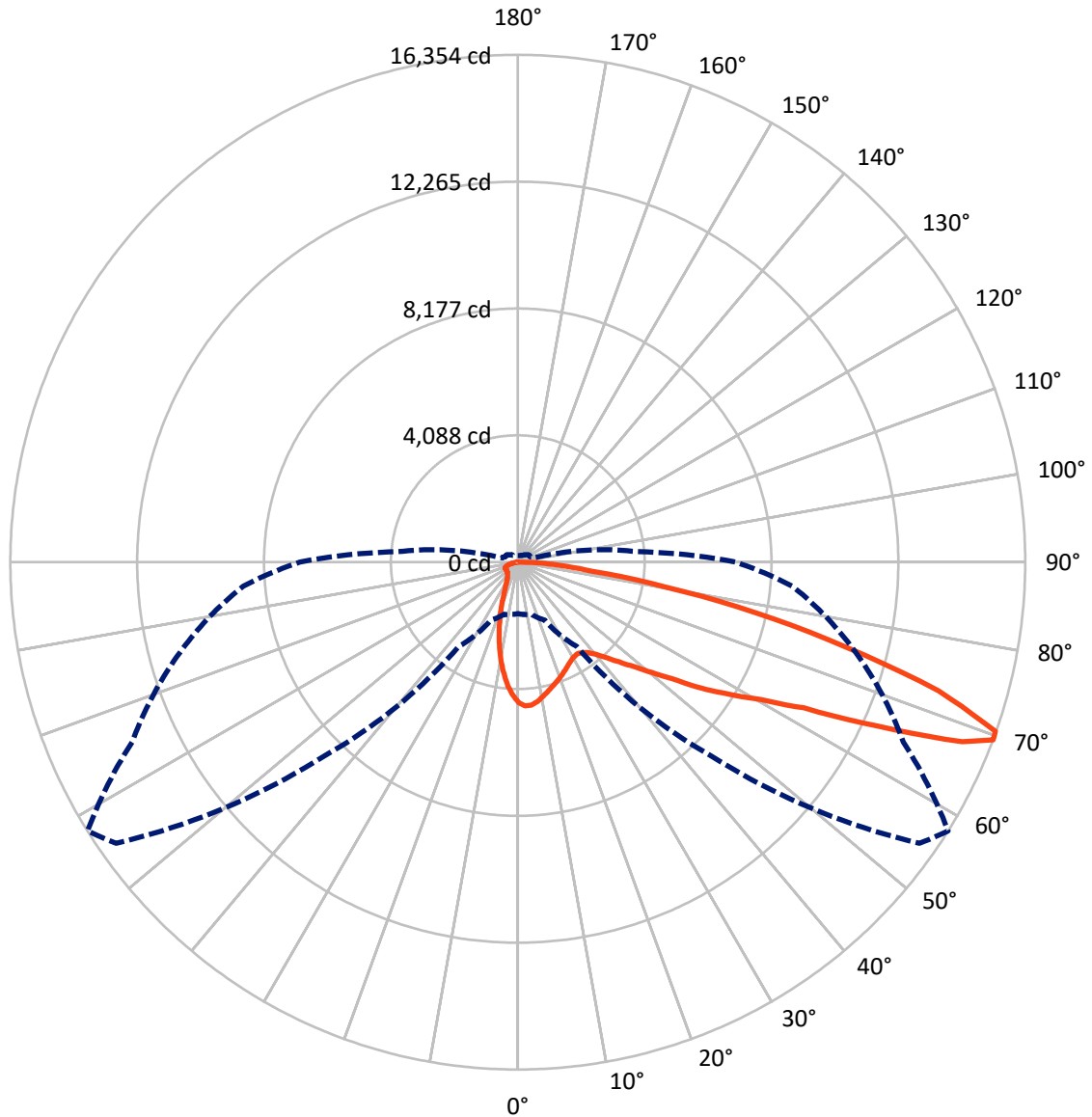
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2403.6	0.0	2403.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13997.4	0.0	13997.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	16401.0	0.0	16401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.9	2.3
10°-20°	845.2	5.2
20°-30°	1092.0	6.7
30°-40°	1418.3	8.6
40°-50°	2062.0	12.6
50°-60°	3290.2	20.1
60°-70°	4395.3	26.8
70°-80°	2533.7	15.4
80°-90°	379.5	2.3
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°	16401.0	100.0
0°-180°	16401.0	100.0

Coefficient of Utilization



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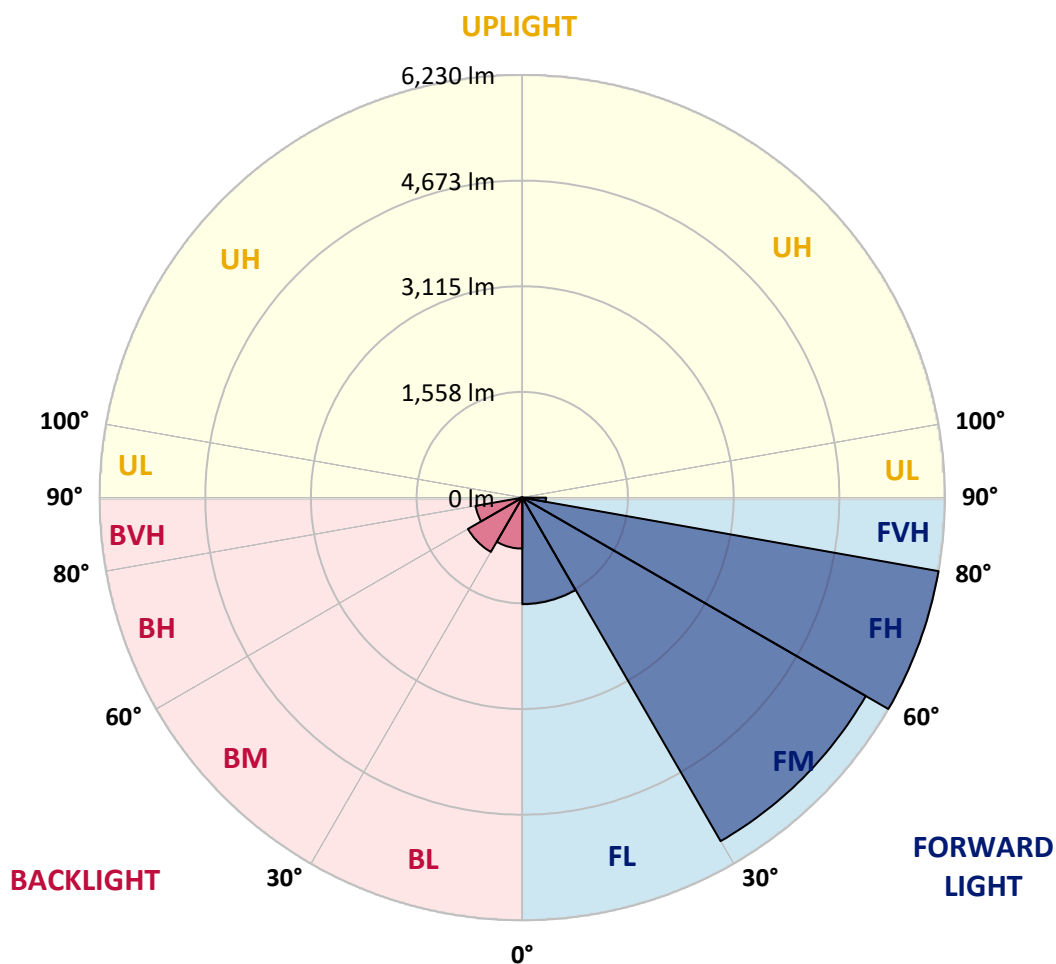
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1570.8	9.6			
FM	(30°-60°)	5846.1	35.6			
FH	(60°-80°)	6230.1	38.0			G3/7500
FVH	(80°-90°)	350.4	2.1			G3/500
BL	(0°-30°)	751.3	4.6	B2/1000		
BM	(30°-60°)	924.3	5.6	B1/1000		
BH	(60°-80°)	698.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.1	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3
2.5°	4700.6	4713.4	4709.7	4705.2	4697.8	4677.7	4644.8	4639.3	4618.3	4573.4	4517.6
5°	4628.3	4639.3	4640.2	4646.6	4655.8	4652.1	4628.3	4625.6	4594.5	4534.1	4440.8
7.5°	4380.4	4395.1	4427.1	4462.8	4494.8	4525.0	4532.3	4536.8	4517.6	4448.1	4323.7
10°	4101.5	4116.1	4130.7	4183.8	4262.4	4337.4	4399.6	4407.9	4412.5	4348.4	4196.6
12.5°	3792.3	3822.5	3853.6	3932.2	4037.4	4155.4	4265.2	4282.6	4313.7	4265.2	4086.8
15°	3529.8	3560.9	3605.7	3676.1	3803.3	3973.4	4128.0	4156.3	4217.6	4192.9	3984.4
17.5°	3347.8	3358.7	3389.8	3470.3	3607.5	3786.8	3993.5	4050.2	4148.1	4141.7	3896.6
20°	3204.2	3217.9	3237.1	3286.5	3429.2	3618.5	3868.2	3941.4	4074.0	4096.0	3809.7
22.5°	3143.8	3153.8	3151.1	3177.6	3274.6	3464.8	3741.1	3828.0	4008.2	4064.9	3729.2
25°	3147.4	3156.6	3142.9	3136.5	3194.1	3329.5	3608.4	3719.1	3955.1	4043.8	3656.0
27.5°	3208.7	3215.1	3189.5	3163.9	3168.5	3245.3	3498.7	3621.2	3910.3	4053.0	3594.7
30°	3291.0	3302.9	3286.5	3255.4	3221.5	3225.2	3428.2	3549.0	3889.3	4085.0	3565.5
32.5°	3397.1	3408.1	3400.8	3376.1	3332.2	3283.7	3410.9	3522.5	3891.1	4149.9	3559.0
35°	3508.7	3530.7	3542.6	3540.8	3505.1	3420.9	3479.5	3571.9	3935.0	4258.8	3596.6
37.5°	3635.0	3653.3	3704.5	3737.4	3704.5	3606.6	3634.1	3698.1	4031.9	4416.1	3678.9
40°	3757.5	3785.0	3860.0	3962.4	3949.6	3863.6	3870.0	3912.1	4203.0	4650.3	3839.9
42.5°	3885.6	3918.5	4049.3	4201.2	4231.3	4164.6	4182.0	4219.5	4446.3	4975.0	4116.1
45°	4050.2	4089.6	4250.6	4439.9	4558.8	4517.6	4567.0	4585.3	4771.9	5397.6	4480.1
47.5°	4262.4	4308.2	4506.7	4742.7	4911.0	4948.5	5034.4	5023.5	5175.3	5897.9	4952.1
50°	4620.1	4645.7	4833.2	5073.8	5305.2	5474.4	5567.7	5585.1	5675.6	6384.5	5479.9
52.5°	5045.4	5068.3	5203.7	5414.0	5704.0	6062.5	6293.0	6236.3	6258.3	6977.2	6097.3
55°	5523.8	5562.2	5648.2	5788.1	6164.1	6691.9	7154.7	7168.4	6925.1	7544.3	6689.1
57.5°	5894.2	5959.2	6106.5	6305.9	6782.4	7391.6	8013.6	8022.7	7711.7	8149.9	7342.2
60°	5707.6	5784.5	6121.1	6606.8	7593.7	8612.7	9039.9	8987.7	8477.3	8839.5	8138.9
62.5°	4902.7	4916.4	5405.8	6165.0	7843.4	10246.3	10567.4	10346.9	9499.0	9714.0	8948.4
65°	3173.1	3262.7	3650.5	4714.3	7023.0	11152.8	13243.8	12734.3	10931.4	10706.4	9626.2
67.5°	2003.2	1980.3	2141.3	2691.9	4830.5	10354.3	15527.7	15447.2	12804.7	11333.0	9464.3
69°	1661.1	1686.7	1741.6	2063.5	3324.0	8840.5	15797.6	16353.7	13713.0	11283.6	8876.1
70°	1506.5	1518.4	1576.0	1829.4	2564.8	7404.4	15354.9	16329.0	14069.7	11076.9	8449.9
72.5°	1195.5	1194.6	1293.4	1522.0	1917.2	4226.8	12608.1	14176.7	13670.9	10114.6	6981.8
75°	908.3	922.9	1031.8	1287.9	1766.3	2309.6	8798.4	10917.7	10918.6	7988.9	4356.7
77.5°	654.9	664.1	791.2	1081.2	1663.8	1872.4	5860.4	7830.6	7361.4	3660.6	1369.3
80°	429.0	434.5	531.4	856.1	1500.1	1766.3	3474.9	4793.0	3472.2	971.4	452.8
82.5°	235.1	262.5	324.7	554.3	1203.7	1631.8	2112.0	2425.8	1302.5	432.6	236.0
85°	118.0	125.3	182.9	323.8	786.6	1350.1	1470.8	1391.2	672.3	215.0	122.6
87.5°	34.8	43.9	75.9	125.3	319.2	703.4	818.6	734.5	258.9	77.7	25.6
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°	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3	4532.3
2.5°	4494.8	4478.3	4405.1	4339.3	4278.9	4214.9	4160.9	4113.3	4117.9	4118.8	4070.4
5°	4392.3	4354.8	4215.8	4085.9	3976.1	3837.1	3718.2	3641.4	3603.0	3551.7	3570.0
7.5°	4253.3	4181.0	3988.0	3772.2	3570.0	3389.8	3194.1	3059.6	2973.6	2890.4	2901.4
10°	4109.7	3993.5	3712.7	3427.3	3165.7	2877.6	2627.9	2413.9	2254.7	2195.2	2155.9
12.5°	3962.4	3809.7	3452.9	3073.3	2712.0	2367.2	2013.2	1783.6	1608.0	1514.7	1526.6
15°	3828.0	3642.3	3182.2	2719.4	2250.1	1839.4	1486.4	1267.8	1145.2	1119.6	1134.2
17.5°	3703.6	3460.3	2928.8	2375.4	1827.5	1379.3	1116.8	993.4	944.0	930.2	929.3
20°	3575.5	3305.7	2644.4	2007.7	1424.2	1069.3	916.5	858.9	849.7	855.2	856.1
22.5°	3445.6	3114.5	2351.7	1642.8	1134.2	874.4	801.3	785.7	793.0	805.8	807.7
25°	3325.8	2946.2	2069.9	1322.6	905.5	768.3	732.7	732.7	749.1	768.3	769.3
27.5°	3227.0	2783.4	1789.1	1050.1	758.3	691.5	679.6	686.0	708.9	723.5	724.4
30°	3145.6	2631.6	1523.9	841.5	666.8	630.2	627.5	638.5	654.9	668.6	669.6
32.5°	3084.3	2498.0	1276.0	707.1	603.7	583.6	582.7	590.9	600.0	603.7	607.4
35°	3060.5	2387.3	1049.1	622.0	561.6	548.8	548.8	547.9	551.6	553.4	555.2
37.5°	3079.8	2302.3	873.5	567.1	530.5	521.4	515.9	510.4	508.6	508.6	509.5
40°	3161.2	2257.4	742.7	531.4	508.6	494.8	484.8	478.4	472.0	473.8	475.6
42.5°	3334.0	2265.7	654.0	507.7	489.4	470.1	455.5	448.2	443.6	449.1	448.2
45°	3609.4	2348.0	597.3	491.2	470.1	445.5	431.7	424.4	424.4	432.6	435.4
47.5°	3994.4	2505.3	567.1	478.4	455.5	426.2	412.5	407.0	408.9	422.6	423.5
50°	4464.6	2778.8	561.6	472.0	448.2	412.5	397.0	391.5	396.1	410.7	412.5
52.5°	4983.2	3131.0	588.1	472.9	441.8	404.3	384.2	375.9	380.5	392.4	396.1
55°	5597.9	3571.9	656.7	476.6	432.6	399.7	375.0	356.7	362.2	370.4	371.4
57.5°	6225.4	4128.0	777.5	477.5	425.3	391.5	359.5	335.7	335.7	341.2	343.9
60°	6991.9	4733.5	936.6	478.4	426.2	379.6	338.4	311.9	308.2	311.0	311.9
62.5°	7752.9	5240.2	963.2	475.6	435.4	367.7	315.6	288.1	281.7	280.8	279.0
65°	8088.6	5146.0	789.4	462.8	445.5	360.4	297.3	265.3	254.3	250.6	250.6
67.5°	7541.6	4353.0	593.6	445.5	439.0	353.1	279.9	246.1	233.2	225.9	225.9
69°	7027.5	3871.9	533.3	433.6	422.6	341.2	268.9	236.0	220.4	212.2	209.5
70°	6630.6	3540.8	507.7	423.5	407.0	327.5	260.7	228.7	211.3	202.1	200.3
72.5°	5291.5	2777.9	444.5	385.1	346.7	275.3	231.4	205.8	189.3	179.3	176.5
75°	3049.6	1505.6	368.6	334.8	279.0	214.0	195.7	179.3	166.5	157.3	154.6
77.5°	938.5	581.7	267.1	264.3	204.9	165.6	156.4	150.0	140.9	130.8	129.0
80°	395.1	296.4	181.1	178.4	136.3	115.3	112.5	111.6	107.9	99.7	97.0
82.5°	216.8	167.4	126.2	109.8	82.3	66.8	69.5	70.4	67.7	59.5	54.0
85°	106.1	91.5	61.3	49.4	37.5	23.8	22.9	27.4	25.6	18.3	20.1
87.5°	21.0	25.6	16.5	7.3	3.7	0.0	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)