

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: P453039

Luminaire Tested: **GALN-SA4A-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453039
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-SA4A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 18058 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

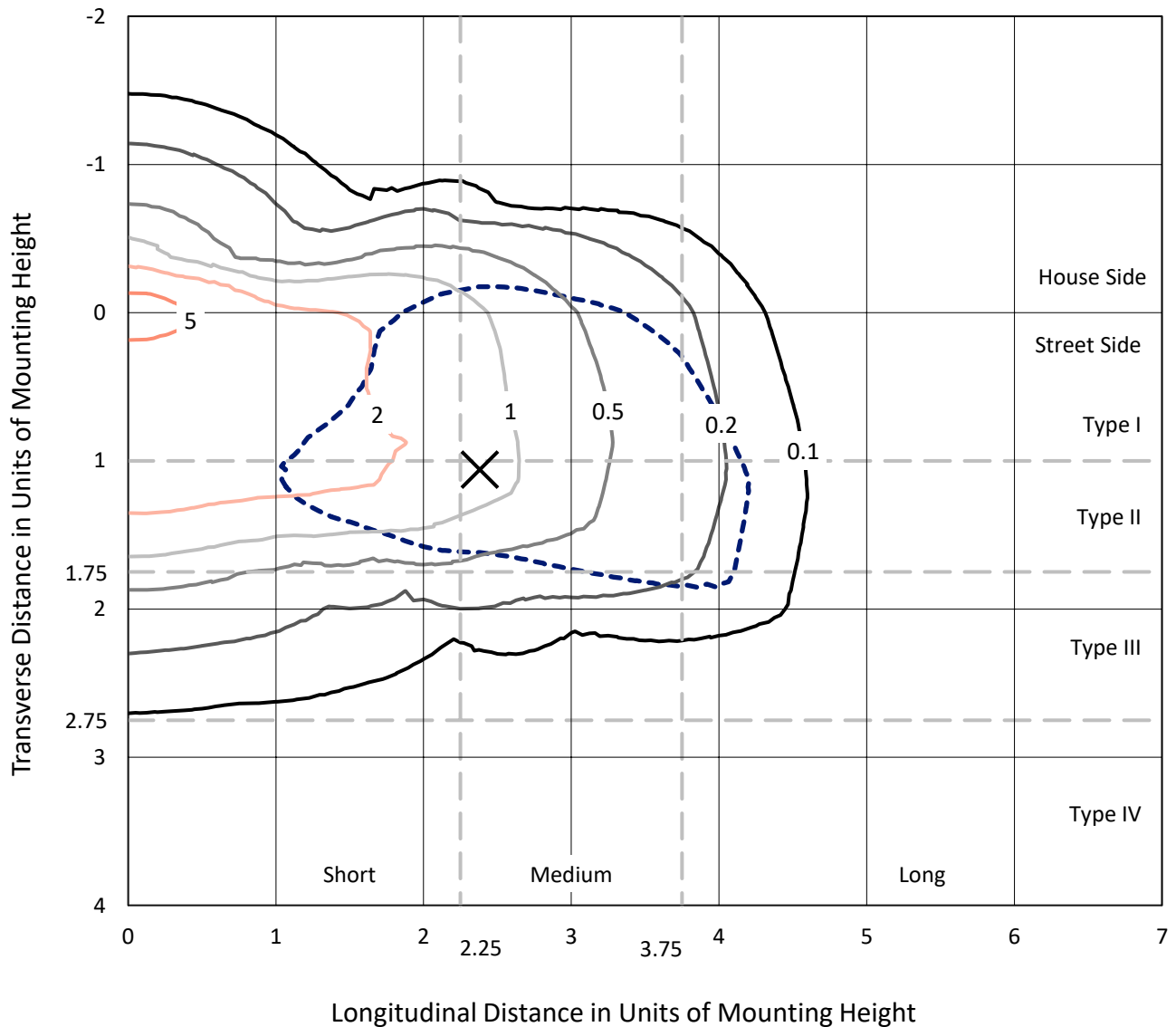
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

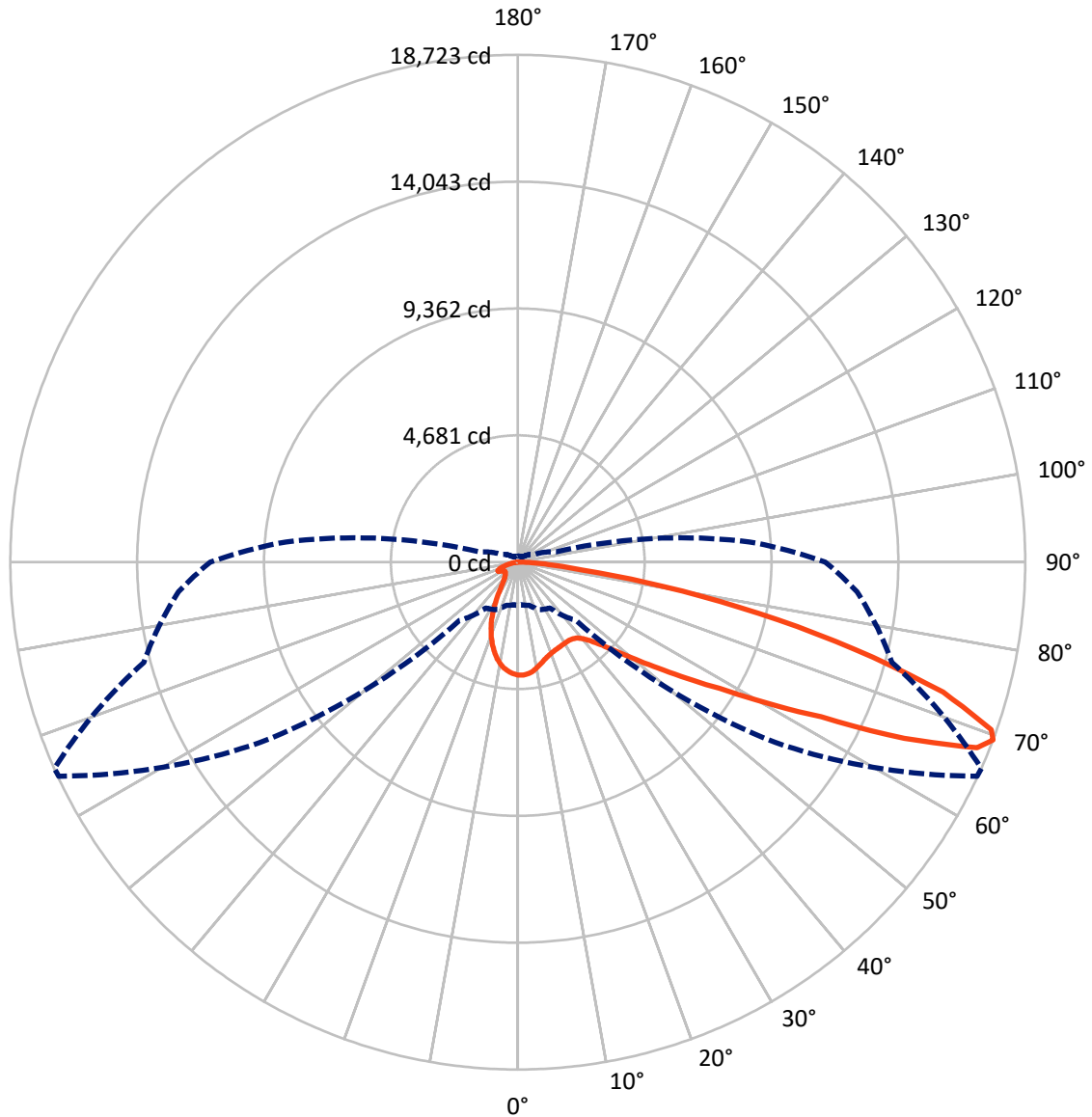
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3396.0	0.0	3396.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14662.0	0.0	14662.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	18058.0	0.0	18058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	2.0
10°-20°	858.9	4.8
20°-30°	1169.3	6.5
30°-40°	1571.3	8.7
40°-50°	2346.2	13.0
50°-60°	3732.1	20.7
60°-70°	4590.3	25.4
70°-80°	2986.6	16.5
80°-90°	441.0	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°	18058.0	100.0
0°-180°	18058.0	100.0

Coefficient of Utilization



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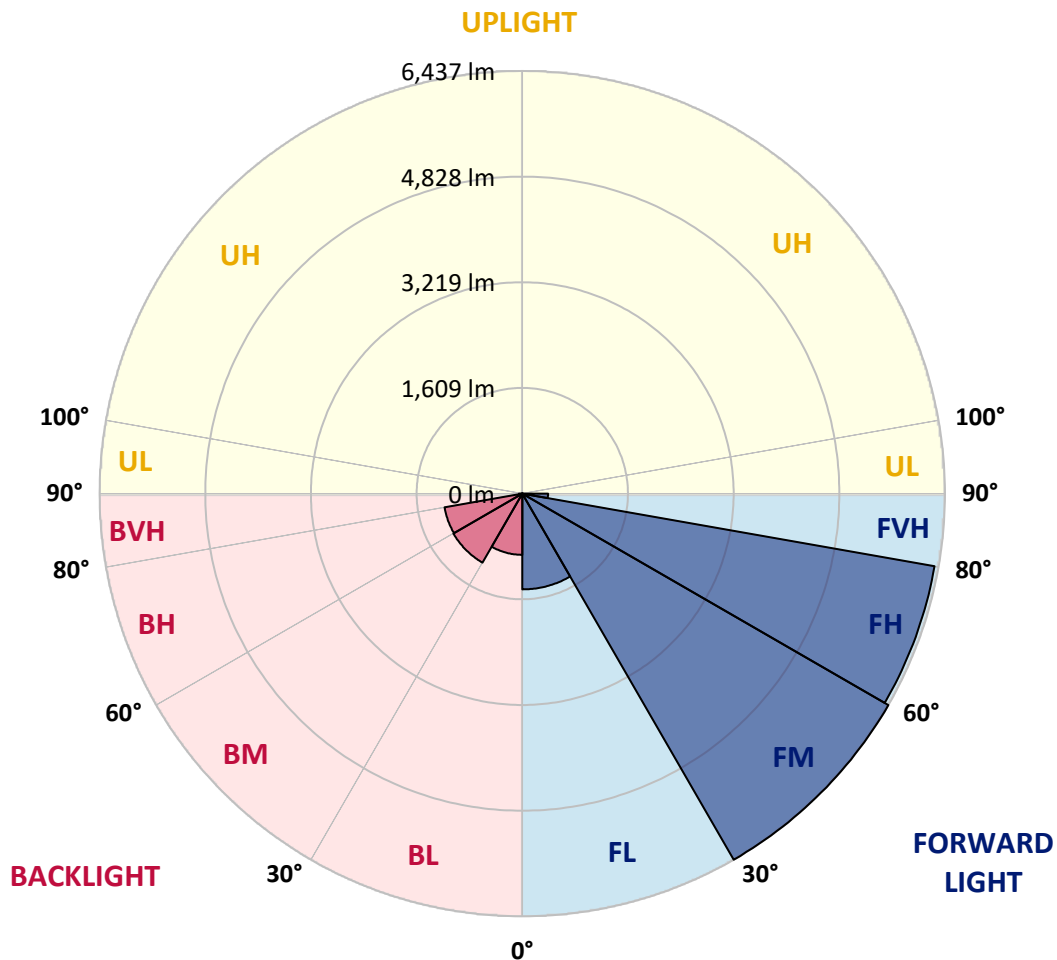
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1458.2	8.1			
FM (30°-60°)	6437.1	35.6			
FH (60°-80°)	6374.6	35.3			G3/7500
FVH (80°-90°)	392.1	2.2			G3/500
BL (0°-30°)	932.2	5.2	B2/1000		
BM (30°-60°)	1212.5	6.7	B2/2500		
BH (60°-80°)	1202.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	48.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1
2.5°	4024.1	4040.1	4058.1	4078.1	4116.1	4137.1	4152.1	4169.1	4171.1	4180.1	4173.1
5°	3727.1	3746.1	3773.1	3811.1	3868.1	3957.1	4049.1	4124.1	4133.1	4175.1	4187.1
7.5°	3479.1	3490.1	3512.1	3573.1	3654.1	3753.1	3887.1	4039.1	4061.1	4161.1	4196.1
10°	3277.1	3288.1	3314.1	3377.1	3457.1	3581.1	3728.1	3928.1	3946.1	4118.1	4198.1
12.5°	3126.1	3136.1	3164.1	3226.1	3318.1	3434.1	3596.1	3808.1	3834.1	4061.1	4179.1
15°	3011.1	3030.1	3053.1	3104.1	3201.1	3313.1	3470.1	3698.1	3719.1	4001.1	4166.1
17.5°	2962.1	2971.1	2987.1	3034.1	3105.1	3215.1	3373.1	3612.1	3637.1	3959.1	4163.1
20°	2964.1	2973.1	2976.1	3002.1	3053.1	3148.1	3304.1	3544.1	3574.1	3922.1	4168.1
22.5°	3032.1	3033.1	3022.1	3013.1	3033.1	3112.1	3255.1	3493.1	3528.1	3906.1	4172.1
25°	3137.1	3155.1	3139.1	3097.1	3060.1	3098.1	3236.1	3465.1	3498.1	3883.1	4167.1
27.5°	3307.1	3310.1	3297.1	3240.1	3144.1	3116.1	3228.1	3444.1	3472.1	3866.1	4142.1
30°	3535.1	3526.1	3514.1	3451.1	3300.1	3185.1	3245.1	3425.1	3454.1	3841.1	4112.1
32.5°	3766.1	3794.1	3783.1	3709.1	3513.1	3319.1	3300.1	3423.1	3447.1	3822.1	4079.1
35°	4011.1	4024.1	4076.1	4038.1	3837.1	3536.1	3403.1	3454.1	3473.1	3823.1	4056.1
37.5°	4203.1	4238.1	4360.1	4393.1	4204.1	3823.1	3570.1	3542.1	3550.1	3872.1	4065.1
40°	4435.1	4495.1	4652.1	4787.1	4663.1	4196.1	3854.1	3705.1	3715.1	3990.1	4124.1
42.5°	4729.1	4771.1	4982.1	5165.1	5145.1	4689.1	4198.1	3972.1	3977.1	4225.1	4289.1
45°	5073.1	5133.1	5370.1	5645.1	5692.1	5247.1	4695.1	4376.1	4373.1	4590.1	4597.1
47.5°	5513.1	5550.1	5785.1	6085.1	6275.1	5948.1	5298.1	4956.1	4924.1	5122.1	5065.1
50°	5918.1	5976.1	6154.1	6482.1	6955.2	6769.2	6091.1	5708.1	5633.1	5818.1	5722.1
52.5°	6088.1	6149.1	6299.1	6706.2	7538.2	7831.2	7098.2	6605.1	6480.1	6622.1	6587.1
55°	5793.1	5872.1	6012.1	6507.1	7794.2	9056.2	8456.2	7642.2	7551.2	7490.2	7500.2
57.5°	5000.1	5075.1	5264.1	5810.1	7488.2	9945.2	10395.2	8975.2	8780.2	8499.2	8547.2
60°	3806.1	3853.1	3951.1	4556.1	6581.1	10176.2	12597.3	10660.2	10536.2	9504.2	9538.2
62.5°	2703.1	2756.1	2824.1	3126.1	4818.1	9525.2	14321.3	13013.3	12570.3	10545.2	10512.2
65°	2195.0	2159.0	2241.1	2382.1	2827.1	7382.2	14709.3	16279.4	15669.4	11916.3	11458.3
67.5°	1805.0	1767.0	1848.0	2099.0	2150.0	4285.1	13311.3	18399.4	18277.4	13407.3	12419.3
69°	1598.0	1578.0	1649.0	1935.0	2064.0	3043.1	11596.3	18694.4	18723.4	14286.3	12567.3
70°	1440.0	1448.0	1517.0	1852.0	2025.0	2509.1	9911.2	18287.4	18533.4	14725.3	12407.3
72.5°	1060.0	1077.0	1173.0	1534.0	1988.0	2129.0	5898.1	15973.4	16408.4	14751.3	11350.3
75°	741.0	733.0	818.0	1155.0	1878.0	2110.0	3464.1	12353.3	12846.3	12750.3	9537.2
77.5°	485.0	498.0	566.0	816.0	1580.0	2094.0	2258.1	8764.2	9084.2	8527.2	5641.1
80°	342.0	341.0	379.0	557.0	1172.0	2012.0	1849.0	5524.1	5443.1	3351.1	1673.0
82.5°	196.0	210.0	254.0	392.0	784.0	1771.0	1701.0	2642.1	2412.1	955.0	565.0
85°	109.0	114.0	151.0	237.0	458.0	1334.0	1485.0	1202.0	1134.0	399.0	243.0
87.5°	35.0	38.0	63.0	120.0	208.0	630.0	841.0	555.0	512.0	144.0	98.0
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°	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1	4170.1
2.5°	4176.1	4188.1	4156.1	4125.1	4097.1	4058.1	4023.1	3994.1	3974.1	3971.1	3961.1
5°	4190.1	4191.1	4130.1	4048.1	3968.1	3880.1	3789.1	3724.1	3663.1	3629.1	3612.1
7.5°	4200.1	4191.1	4081.1	3948.1	3794.1	3634.1	3474.1	3346.1	3247.1	3208.1	3223.1
10°	4196.1	4168.1	4007.1	3794.1	3570.1	3331.1	3101.1	2921.1	2756.1	2671.1	2673.1
12.5°	4174.1	4128.1	3897.1	3621.1	3292.1	2972.1	2620.1	2377.1	2186.0	2073.0	2038.0
15°	4155.1	4075.1	3768.1	3386.1	2977.1	2520.1	2091.0	1791.0	1631.0	1542.0	1541.0
17.5°	4135.1	4024.1	3627.1	3137.1	2615.1	2027.0	1577.0	1348.0	1273.0	1282.0	1267.0
20°	4114.1	3964.1	3480.1	2860.1	2174.0	1512.0	1181.0	1088.0	1109.0	1150.0	1156.0
22.5°	4090.1	3900.1	3322.1	2555.1	1710.0	1138.0	958.0	944.0	998.0	1062.0	1071.0
25°	4053.1	3820.1	3123.1	2236.1	1319.0	917.0	839.0	849.0	902.0	956.0	962.0
27.5°	4001.1	3721.1	2922.1	1838.0	991.0	787.0	767.0	780.0	806.0	839.0	847.0
30°	3931.1	3609.1	2691.1	1494.0	794.0	722.0	714.0	721.0	736.0	750.0	754.0
32.5°	3861.1	3501.1	2458.1	1144.0	708.0	679.0	671.0	671.0	671.0	673.0	674.0
35°	3796.1	3399.1	2208.0	891.0	663.0	645.0	634.0	622.0	620.0	613.0	613.0
37.5°	3760.1	3306.1	1942.0	746.0	630.0	617.0	602.0	582.0	571.0	572.0	570.0
40°	3767.1	3245.1	1700.0	664.0	603.0	589.0	566.0	543.0	536.0	536.0	534.0
42.5°	3846.1	3225.1	1468.0	621.0	577.0	561.0	532.0	511.0	507.0	506.0	508.0
45°	4028.1	3274.1	1260.0	593.0	555.0	531.0	502.0	483.0	479.0	479.0	478.0
47.5°	4383.1	3433.1	1111.0	575.0	539.0	508.0	478.0	459.0	452.0	450.0	450.0
50°	4935.1	3778.1	1000.0	559.0	519.0	487.0	456.0	434.0	423.0	422.0	421.0
52.5°	5702.1	4316.1	957.0	547.0	497.0	465.0	431.0	410.0	396.0	393.0	391.0
55°	6599.1	5067.1	1016.0	538.0	474.0	440.0	405.0	383.0	370.0	364.0	363.0
57.5°	7638.2	5969.1	1240.0	526.0	453.0	413.0	379.0	357.0	343.0	336.0	334.0
60°	8571.2	6896.2	1631.0	519.0	435.0	384.0	349.0	329.0	316.0	309.0	308.0
62.5°	9596.2	7780.2	2098.0	538.0	427.0	356.0	321.0	303.0	292.0	285.0	285.0
65°	10691.2	8665.2	2407.1	602.0	439.0	334.0	291.0	276.0	266.0	261.0	260.0
67.5°	11429.3	8971.2	1983.0	668.0	469.0	310.0	262.0	250.0	244.0	239.0	239.0
69°	11349.3	8584.2	1463.0	685.0	478.0	298.0	246.0	237.0	229.0	227.0	225.0
70°	11096.2	8143.2	1226.0	674.0	471.0	287.0	236.0	225.0	218.0	216.0	215.0
72.5°	9883.2	7062.2	913.0	586.0	401.0	249.0	209.0	199.0	193.0	190.0	190.0
75°	8211.2	5772.1	713.0	466.0	314.0	210.0	179.0	171.0	166.0	164.0	163.0
77.5°	4602.1	3223.1	512.0	365.0	238.0	170.0	150.0	143.0	138.0	136.0	136.0
80°	1282.0	921.0	301.0	241.0	162.0	129.0	119.0	114.0	107.0	102.0	105.0
82.5°	483.0	399.0	172.0	145.0	103.0	86.0	83.0	79.0	76.0	69.0	69.0
85°	235.0	194.0	110.0	77.0	57.0	45.0	43.0	41.0	39.0	34.0	35.0
87.5°	81.0	86.0	48.0	28.0	17.0	11.0	9.0	5.0	5.0	5.0	5.0
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)