

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: P457757

Luminaire Tested: **GALN-SA9A-760-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29991 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

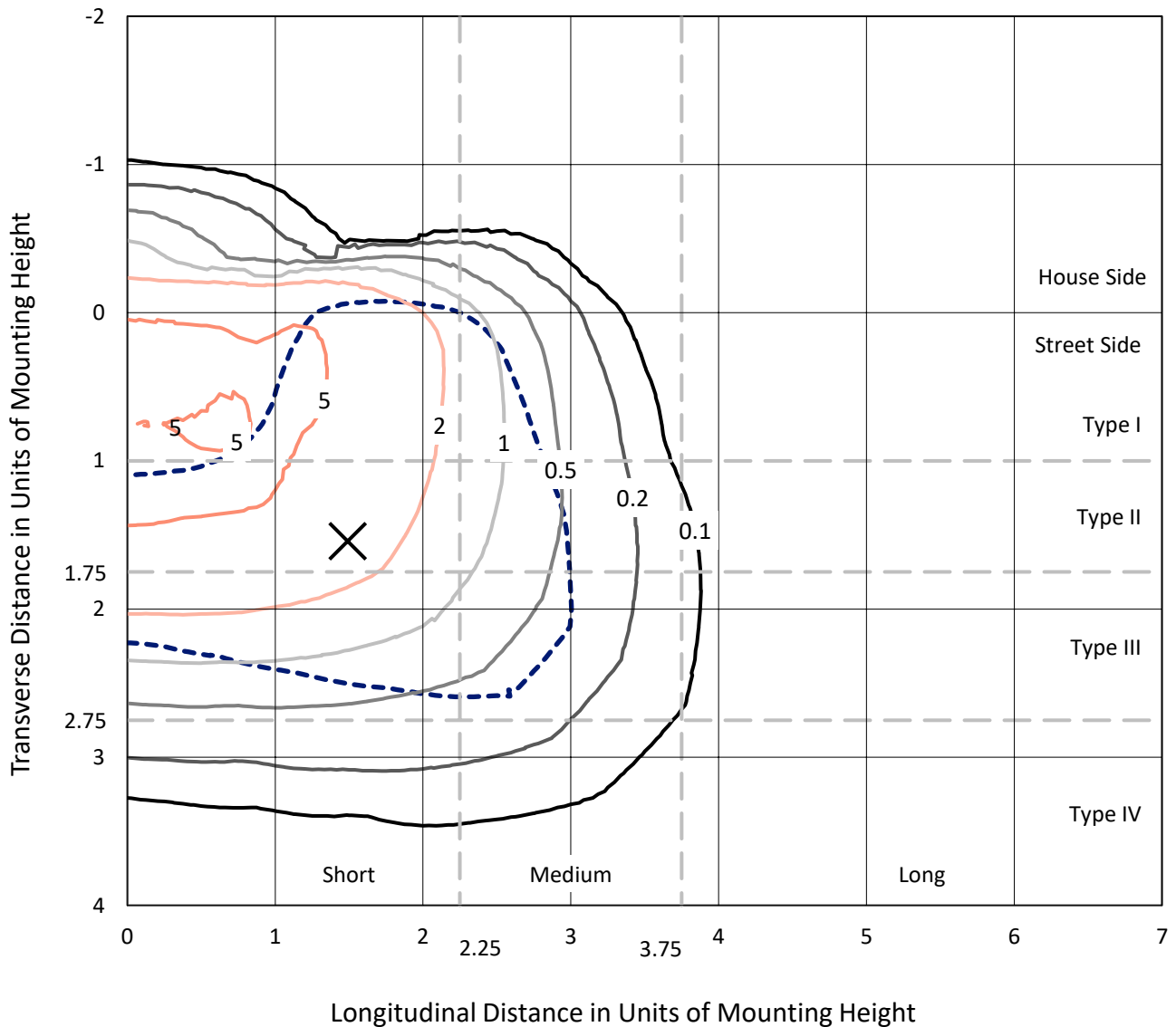
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

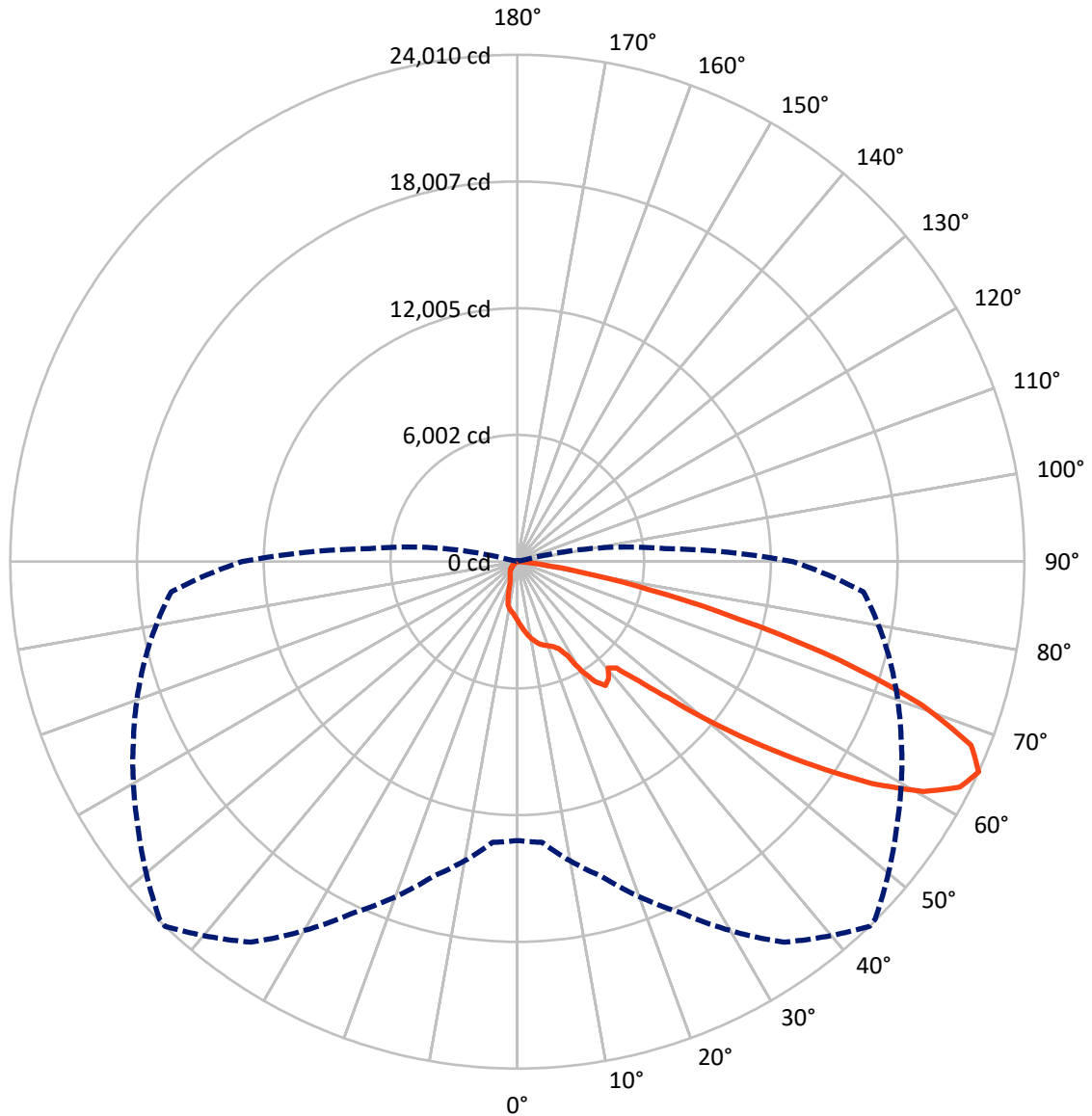
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2763.2	0.0	2763.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	27227.8	0.0	27227.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	29991.0	0.0	29991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.6	0.9
10°-20°	835.5	2.8
20°-30°	1416.8	4.7
30°-40°	2355.6	7.9
40°-50°	4113.0	13.7
50°-60°	8035.4	26.8
60°-70°	9322.9	31.1
70°-80°	3394.9	11.3
80°-90°	239.2	0.8
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°	29991.0	100.0
0°-180°	29991.0	100.0

**Coefficient of Utilization**



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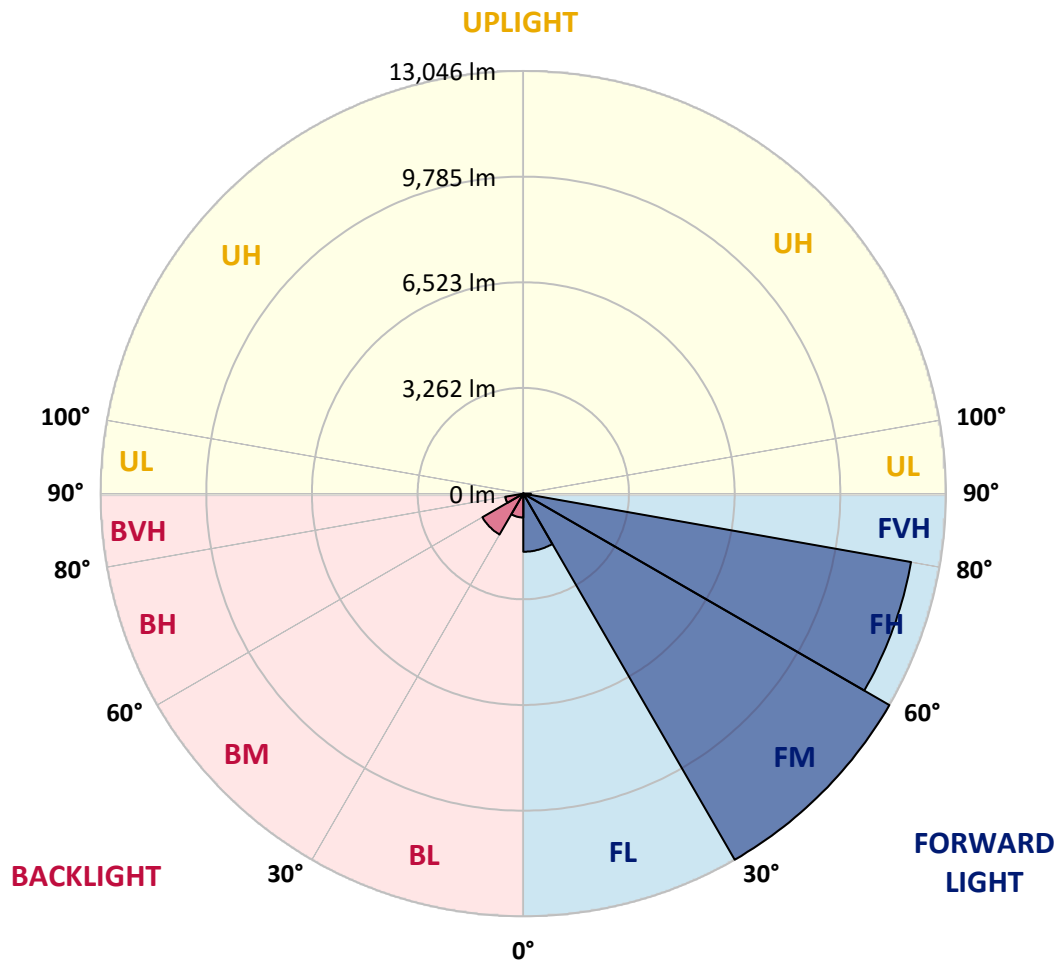
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.7	6.0			
FM (30°-60°)	13046.1	43.5			
FH (60°-80°)	12152.0	40.5			G5
FVH (80°-90°)	236.0	0.8			G3/500
BL (0°-30°)	736.2	2.5	B2/1000		
BM (30°-60°)	1457.9	4.9	B2/2500		
BH (60°-80°)	565.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3
2.5°	3141.9	3128.1	3121.3	3084.6	3057.1	3022.7	3022.7	2979.2	2928.8	2873.8	2823.4
5°	3492.5	3469.6	3439.8	3407.7	3343.6	3251.9	3251.9	3160.2	3054.8	2960.9	2857.7
7.5°	3829.4	3808.8	3758.4	3696.5	3591.1	3494.8	3487.9	3355.0	3229.0	3086.9	2940.2
10°	4125.0	4109.0	4065.4	3946.3	3836.3	3710.2	3707.9	3559.0	3412.3	3238.1	3057.1
12.5°	4331.3	4333.6	4276.3	4161.7	4019.6	3900.4	3891.3	3744.6	3591.1	3403.1	3180.9
15°	4477.9	4477.9	4418.4	4290.0	4161.7	4056.3	4047.1	3918.8	3760.6	3556.7	3316.1
17.5°	4519.2	4532.9	4468.8	4354.2	4251.1	4159.4	4157.1	4049.4	3923.4	3726.3	3453.6
20°	4503.2	4516.9	4466.5	4377.1	4306.1	4253.4	4246.5	4202.9	4086.1	3900.4	3600.2
22.5°	4468.8	4482.5	4445.9	4393.2	4358.8	4374.8	4363.4	4400.0	4338.2	4113.6	3774.4
25°	4475.7	4489.4	4461.9	4432.1	4461.9	4560.4	4590.2	4748.4	4693.4	4384.0	3962.3
27.5°	4691.1	4718.6	4679.6	4693.4	4798.8	5027.9	5085.2	5358.0	5115.0	4727.7	4255.7
30°	5170.0	5151.7	5078.4	5144.8	5511.5	5997.3	5981.3	5937.7	5557.3	5124.2	4604.0
32.5°	5605.5	5589.4	5584.8	5871.3	6535.9	6771.9	6760.5	6338.8	5953.8	5578.0	4947.7
35°	5781.9	5720.0	5706.3	6400.7	7512.1	7200.5	7129.4	6503.8	6435.0	6073.0	5298.4
37.5°	6313.6	6270.0	6056.9	6487.7	7122.5	7019.4	6964.4	6788.0	6948.4	6510.7	5694.8
40°	7409.0	7287.5	7095.0	6673.4	6570.2	6613.8	6668.8	7152.3	7555.7	7108.8	6224.2
42.5°	8770.3	8742.8	8385.3	7599.2	6826.9	6886.5	6957.5	7913.2	8428.8	8009.4	7088.2
45°	10404.2	10443.2	9927.6	8999.4	7986.5	8036.9	8140.1	9036.1	9611.3	9409.6	8447.1
47.5°	11889.2	11859.5	11685.3	10720.5	9785.5	9673.2	9840.5	10477.6	11247.6	11279.7	10133.8
50°	13383.4	13541.5	13282.6	12904.5	12210.1	11974.0	11912.2	12223.8	13397.2	13243.6	12159.7
52.5°	15530.7	15613.2	15127.4	15031.1	15189.3	14423.8	14362.0	14437.6	15487.2	14960.1	13676.8
55°	16880.5	16832.4	16651.4	17403.0	18028.7	17073.0	16995.1	16690.3	17222.0	16172.4	15136.6
57.5°	17306.8	17375.5	17797.2	19156.2	20636.6	19825.3	19683.2	18817.0	18473.2	17302.2	16479.5
60°	17116.6	17242.6	18152.4	20173.7	22227.0	22105.6	21984.1	20528.9	19371.6	18246.4	17421.4
62.5°	15762.2	15938.6	17393.9	19992.6	22765.6	23524.1	23372.9	21596.8	19969.7	18704.7	17586.4
65°	13209.3	13339.9	15429.9	18349.5	22000.1	24009.9	23954.9	21931.4	20063.7	18285.3	16456.6
67.5°	9416.5	9861.1	11797.6	15464.3	19736.0	23180.4	23274.3	21530.3	19181.4	16472.6	13628.6
70°	5919.4	6221.9	7610.7	11071.1	15821.8	20336.4	20645.8	19694.7	16646.8	12840.3	9123.2
72.5°	2823.4	3047.9	4037.9	7008.0	11167.4	16000.5	16245.7	16167.8	12872.4	8089.6	4707.1
75°	1258.1	1342.9	1927.3	3577.3	7209.6	10754.9	11389.7	11495.1	8043.8	3957.7	1831.1
77.5°	641.7	644.0	902.9	1732.5	3600.2	6416.7	6542.7	6911.7	4361.1	1744.0	637.1
80°	341.5	364.4	479.0	818.1	1867.7	3160.2	3144.2	3455.9	1934.2	854.8	213.1
82.5°	153.5	169.6	270.4	428.5	912.1	1198.5	1292.5	1414.0	829.6	545.4	94.0
85°	45.8	55.0	132.9	215.4	330.0	346.0	387.3	499.6	469.8	387.3	48.1
87.5°	6.9	6.9	55.0	59.6	48.1	61.9	64.2	71.0	151.3	142.1	25.2
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°	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3	2791.3
2.5°	2795.9	2779.8	2722.5	2674.4	2633.1	2607.9	2578.1	2559.8	2550.6	2543.8	2546.1
5°	2807.3	2768.4	2669.8	2591.9	2532.3	2468.1	2424.6	2399.4	2387.9	2369.6	2369.6
7.5°	2871.5	2809.6	2672.1	2552.9	2449.8	2362.7	2280.2	2250.4	2229.8	2225.2	2220.6
10°	2963.1	2885.2	2697.3	2532.3	2385.6	2266.5	2149.6	2046.5	1966.3	1918.1	1911.3
12.5°	3077.7	2965.4	2736.3	2518.6	2330.6	2119.8	1810.4	1601.9	1462.1	1418.6	1425.4
15°	3183.1	3061.7	2775.2	2507.1	2229.8	1757.7	1407.1	1168.8	1097.7	1090.8	1093.1
17.5°	3309.2	3164.8	2821.1	2491.1	1952.5	1342.9	1045.0	980.8	994.6	1017.5	1015.2
20°	3439.8	3274.8	2876.1	2394.8	1558.3	1010.6	923.5	930.4	951.0	971.7	976.3
22.5°	3579.6	3400.9	2940.2	2163.3	1189.4	880.0	875.4	884.6	905.2	928.1	932.7
25°	3772.1	3559.0	2988.4	1860.8	900.6	813.5	822.7	838.8	857.1	882.3	886.9
27.5°	4019.6	3772.1	3013.6	1466.7	779.2	754.0	756.3	779.2	802.1	825.0	825.0
30°	4340.4	4026.5	2963.1	1109.2	719.6	696.7	687.5	701.3	731.0	754.0	756.3
32.5°	4626.9	4267.1	2830.2	847.9	676.0	644.0	621.0	623.3	634.8	648.5	650.8
35°	4913.4	4500.9	2603.3	712.7	630.2	593.5	559.2	540.8	531.7	524.8	531.7
37.5°	5280.0	4791.9	2300.8	648.5	591.3	545.4	497.3	458.3	426.3	405.6	410.2
40°	5752.1	5195.2	1943.3	607.3	554.6	499.6	435.4	385.0	330.0	311.7	302.5
42.5°	6531.3	5807.1	1567.5	572.9	517.9	451.5	371.3	302.5	252.1	233.8	238.3
45°	7761.9	6579.4	1207.7	536.3	481.3	398.8	311.7	238.3	197.1	187.9	192.5
47.5°	9393.6	7578.6	930.4	495.0	435.4	341.5	245.2	187.9	162.7	160.4	158.1
50°	10929.0	8509.0	776.9	449.2	380.4	284.2	201.7	158.1	142.1	139.8	139.8
52.5°	12317.8	9175.9	632.5	396.5	320.8	233.8	169.6	139.8	126.0	119.2	119.2
55°	13553.0	9611.3	513.3	332.3	252.1	185.6	146.7	126.0	110.0	100.8	98.5
57.5°	14485.7	9664.0	385.0	265.8	187.9	144.4	126.0	110.0	91.7	80.2	75.6
60°	14884.5	9208.0	284.2	201.7	139.8	114.6	100.8	89.4	68.8	57.3	55.0
62.5°	14483.4	8321.1	210.8	153.5	107.7	84.8	71.0	66.5	48.1	34.4	32.1
65°	13046.5	7040.0	167.3	116.9	80.2	61.9	45.8	43.5	29.8	16.0	13.8
67.5°	10452.4	5513.8	132.9	87.1	57.3	41.3	29.8	27.5	16.0	4.6	4.6
70°	6797.1	3524.6	107.7	64.2	36.7	27.5	18.3	13.8	9.2	2.3	0.0
72.5°	3361.9	1647.7	87.1	50.4	25.2	13.8	6.9	4.6	6.9	0.0	0.0
75°	1304.0	586.7	64.2	34.4	13.8	6.9	4.6	0.0	2.3	0.0	0.0
77.5°	433.1	194.8	39.0	18.3	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	160.4	75.6	20.6	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	64.2	29.8	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.1	18.3	9.2	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.9	13.8	9.2	6.9	4.6	2.3	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)