

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: P452521

Luminaire Tested: **GALN-SA3C-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17180 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

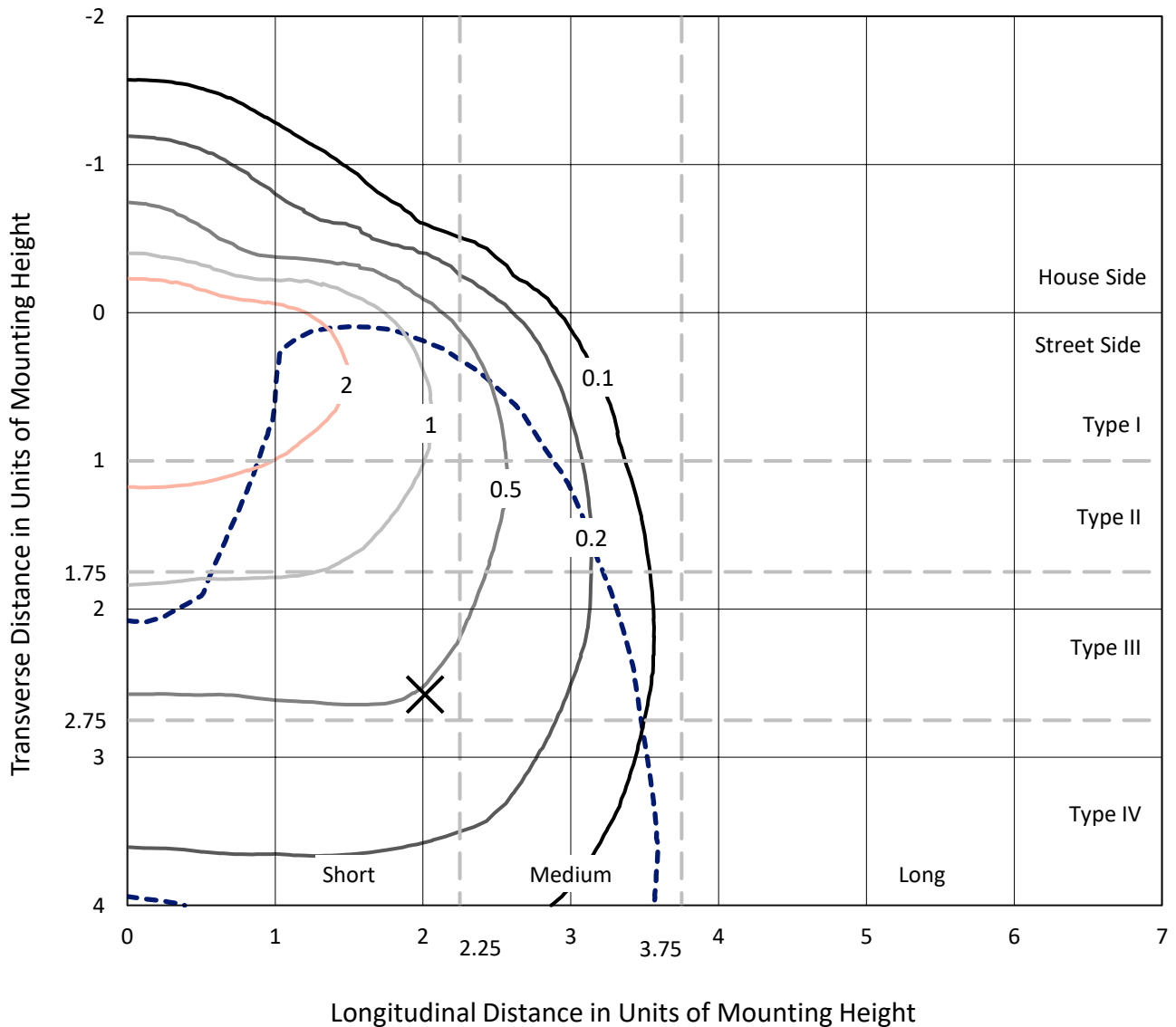
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

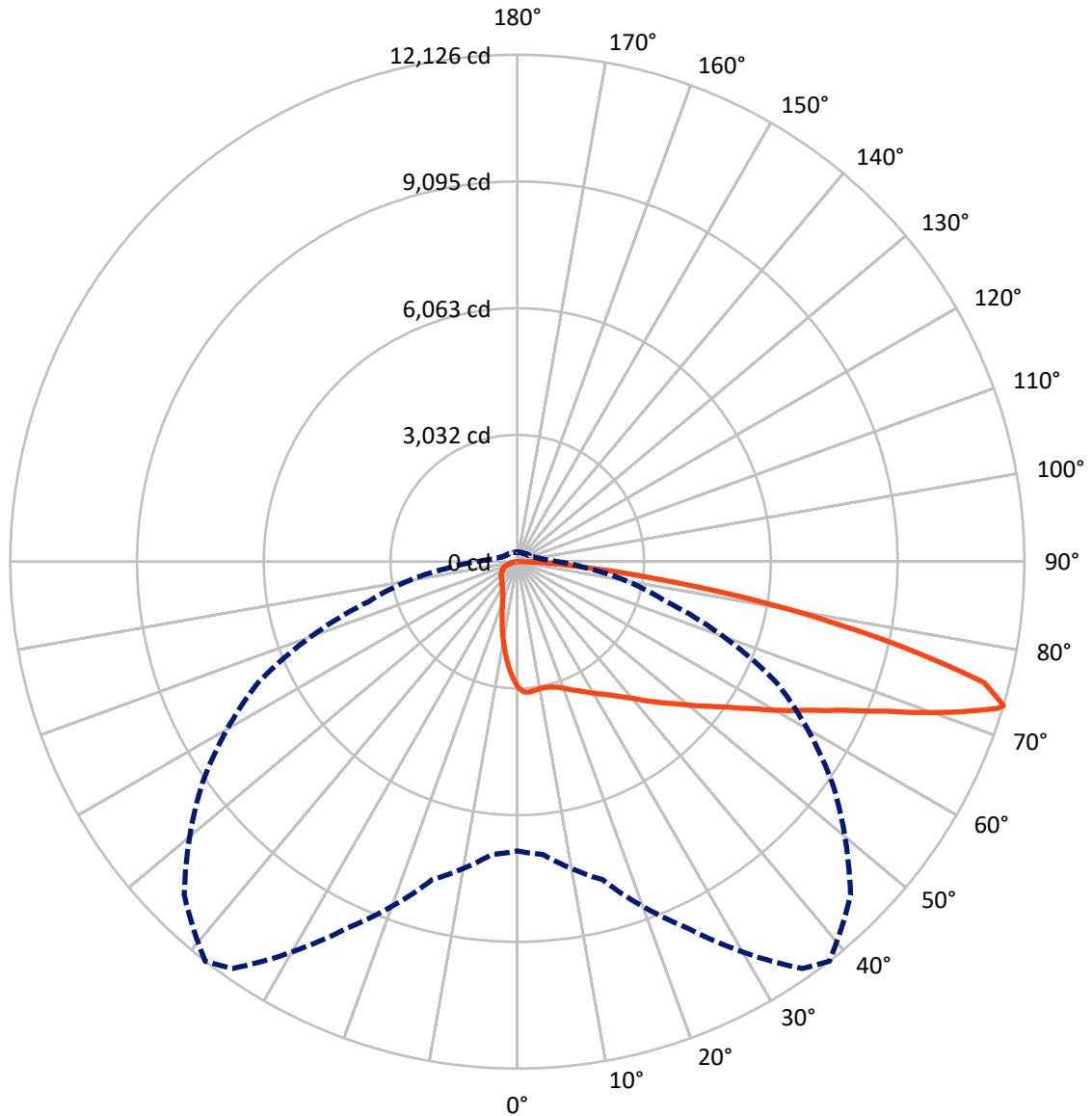
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2309.5	0.0	2309.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	14870.5	0.0	14870.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	17180.0	0.0	17180.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.5	1.5
10°-20°	675.6	3.9
20°-30°	1052.0	6.1
30°-40°	1543.1	9.0
40°-50°	2289.0	13.3
50°-60°	3243.1	18.9
60°-70°	4113.9	23.9
70°-80°	3424.5	19.9
80°-90°	575.4	3.3
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°	17180.0	100.0
0°-180°	17180.0	100.0

**Coefficient of Utilization**



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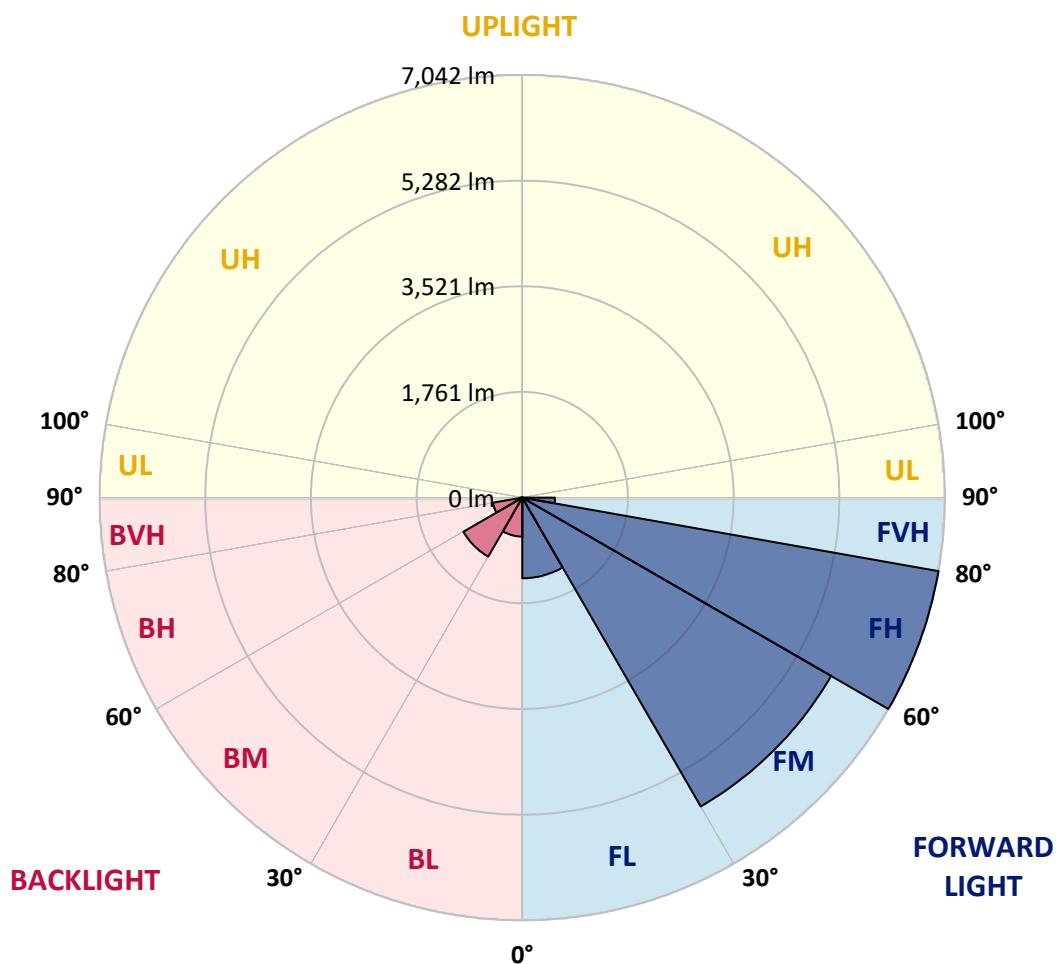
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1343.0	7.8			
FM	(30°-60°)	5941.3	34.6			
FH	(60°-80°)	7042.0	41.0			G3/7500
FVH	(80°-90°)	544.2	3.2			G4/750
BL	(0°-30°)	648.1	3.8	B2/1000		
BM	(30°-60°)	1133.8	6.6	B2/2500		
BH	(60°-80°)	496.4	2.9	B1/500		G1/500
BVH	(80°-90°)	31.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2
2.5°	3139.5	3155.0	3147.3	3136.6	3129.8	3123.0	3113.3	3085.2	3062.9	3038.6	3000.8
5°	3162.8	3172.5	3165.7	3152.1	3136.6	3129.8	3111.4	3074.5	3038.6	2997.9	2941.6
7.5°	3149.2	3153.1	3145.3	3128.8	3115.3	3102.6	3081.3	3040.5	2996.9	2947.4	2873.7
10°	3100.7	3115.3	3115.3	3101.7	3088.1	3081.3	3060.0	3021.1	2981.4	2925.1	2837.8
12.5°	3060.9	3076.4	3089.1	3085.2	3084.2	3084.2	3067.7	3038.6	2992.0	2938.7	2834.9
15°	3033.8	3052.2	3079.4	3094.9	3104.6	3107.5	3100.7	3075.5	3027.9	2965.8	2846.5
17.5°	3027.9	3050.3	3099.7	3133.7	3158.9	3157.9	3156.0	3121.1	3068.7	3004.7	2861.1
20°	3054.1	3083.2	3152.1	3205.5	3242.3	3235.6	3224.9	3179.3	3118.2	3046.4	2874.6
22.5°	3132.7	3162.8	3238.5	3296.7	3332.6	3332.6	3300.6	3240.4	3175.4	3094.9	2893.1
25°	3245.3	3278.2	3358.8	3417.9	3434.4	3421.8	3389.8	3317.1	3242.3	3164.7	2931.9
27.5°	3383.0	3422.8	3497.5	3547.0	3542.1	3532.4	3499.4	3406.3	3331.6	3260.8	2997.9
30°	3554.7	3583.9	3661.5	3673.1	3655.6	3653.7	3607.1	3514.0	3444.1	3389.8	3092.0
32.5°	3716.8	3743.0	3805.1	3809.9	3778.9	3782.7	3739.1	3653.7	3613.9	3594.5	3250.1
35°	3888.5	3902.1	3955.4	3949.6	3929.2	3926.3	3908.9	3827.4	3840.0	3874.9	3474.2
37.5°	4032.1	4059.2	4089.3	4094.2	4093.2	4102.9	4114.5	4075.7	4148.5	4258.1	3768.2
40°	4164.0	4187.3	4231.9	4247.5	4285.3	4304.7	4344.5	4345.4	4513.3	4693.7	4130.1
42.5°	4253.3	4293.1	4376.5	4404.6	4496.8	4555.0	4614.2	4677.2	4920.8	5152.6	4556.9
45°	4330.9	4383.3	4522.0	4609.3	4734.5	4805.3	4930.5	5062.4	5412.6	5716.3	4990.6
47.5°	4448.3	4494.9	4654.0	4808.2	4997.4	5078.9	5266.1	5463.1	5921.0	6253.8	5405.9
50°	4611.3	4639.4	4801.4	5052.7	5294.3	5399.1	5646.5	5930.7	6464.3	6784.5	5770.6
52.5°	4819.9	4831.5	4960.5	5295.3	5613.5	5743.5	6071.4	6403.2	6939.7	7245.3	6059.8
55°	5066.3	5046.9	5147.8	5552.3	5978.3	6148.0	6500.2	6881.5	7474.3	7617.9	6270.3
57.5°	5309.8	5279.7	5360.3	5864.7	6428.4	6633.1	7043.5	7374.4	7951.6	7966.2	6417.8
60°	5567.9	5545.6	5641.6	6231.5	6980.5	7223.0	7602.3	7885.6	8413.4	8208.7	6441.0
62.5°	5832.7	5796.8	5933.6	6643.8	7602.3	7822.6	8190.3	8428.9	8866.5	8298.9	6216.9
65°	6089.8	6073.3	6284.8	7133.7	8310.6	8560.9	8917.9	9079.9	9229.3	8163.1	5661.0
67.5°	6363.4	6396.4	6734.0	7787.6	9234.2	9548.5	9933.7	9781.4	9333.1	7519.9	4767.5
70°	6780.6	6801.9	7323.9	8644.3	10424.6	10803.9	10990.2	10030.7	8832.5	6298.4	3583.9
72.5°	6960.1	7054.2	7850.7	9543.7	11777.0	12008.9	11345.3	9474.8	7357.9	4278.5	1883.1
73°	6920.3	7032.8	7875.0	9680.5	11882.8	12126.3	11269.6	9188.6	6839.8	3684.7	1614.4
75°	6424.5	6563.3	7559.7	9566.0	11677.1	11531.6	10053.0	7831.3	4621.9	1675.5	735.4
77.5°	5069.2	5109.0	5989.9	7724.6	9195.4	8925.7	7523.8	4894.6	1888.0	622.9	417.2
80°	2542.8	2689.3	3376.2	4425.0	6149.0	6060.7	4749.0	2314.9	786.8	365.8	276.5
82.5°	1223.4	1327.2	1644.5	2157.7	3397.6	3317.1	2351.7	1265.1	499.6	213.4	163.0
85°	787.8	865.4	1046.8	1029.4	1397.1	1334.0	1056.5	957.6	295.9	111.6	113.5
87.5°	520.0	569.5	683.0	546.2	508.4	459.9	466.7	539.4	58.2	42.7	15.5
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°	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2
2.5°	2985.2	2972.6	2930.9	2890.2	2851.4	2814.5	2790.2	2758.2	2736.9	2742.7	2751.4
5°	2910.5	2882.4	2808.7	2736.9	2669.0	2588.4	2523.4	2471.1	2431.3	2416.7	2413.8
7.5°	2832.0	2784.4	2678.7	2555.5	2440.0	2340.1	2224.6	2167.4	2100.4	2077.2	2069.4
10°	2784.4	2720.4	2572.0	2400.2	2226.6	2060.7	1935.5	1833.6	1741.5	1724.0	1715.3
12.5°	2770.8	2686.4	2486.6	2265.4	2034.5	1830.7	1645.4	1511.5	1422.3	1401.9	1371.8
15°	2763.1	2658.3	2407.0	2129.5	1836.6	1588.2	1393.2	1237.0	1155.5	1101.2	1102.1
17.5°	2756.3	2626.3	2317.8	1981.1	1665.8	1379.6	1164.2	1023.5	948.8	919.7	916.8
20°	2746.6	2588.4	2214.9	1824.9	1470.8	1189.4	994.4	889.7	839.2	815.0	814.0
22.5°	2742.7	2551.6	2114.0	1665.8	1298.1	1042.9	881.9	808.2	776.1	759.7	759.7
25°	2752.4	2525.4	2008.3	1514.5	1144.8	917.8	804.3	753.8	735.4	726.7	723.8
27.5°	2782.5	2513.7	1903.5	1363.1	1004.1	832.4	751.9	717.0	703.4	696.6	697.6
30°	2839.7	2512.8	1800.7	1213.7	899.4	767.4	710.2	685.9	675.2	671.4	670.4
32.5°	2931.9	2534.1	1699.8	1090.5	811.1	713.1	671.4	653.9	649.1	646.1	645.2
35°	3088.1	2594.3	1599.8	977.9	743.2	664.6	634.5	625.8	619.0	621.9	622.9
37.5°	3298.6	2698.1	1504.8	889.7	691.7	628.7	603.5	595.7	591.8	594.7	597.6
40°	3580.9	2847.5	1425.2	818.8	654.9	598.6	576.3	569.5	565.6	570.5	571.4
42.5°	3892.4	3020.2	1359.2	763.5	624.8	573.4	552.0	544.3	541.4	544.3	545.2
45°	4212.5	3221.0	1325.3	723.8	599.6	554.9	532.6	523.9	517.1	515.2	518.1
47.5°	4527.8	3395.6	1324.3	699.5	579.2	538.5	514.2	504.5	495.8	490.9	489.9
50°	4784.9	3534.4	1347.6	688.8	561.7	520.0	495.8	486.1	474.4	464.7	466.7
52.5°	4979.0	3624.6	1358.3	684.0	552.0	500.6	476.4	467.6	454.0	441.4	441.4
55°	5104.1	3645.9	1332.1	679.1	544.3	480.2	454.0	446.3	432.7	420.1	420.1
57.5°	5146.8	3580.0	1238.0	667.5	536.5	462.8	431.7	424.9	414.3	401.7	399.7
60°	5047.9	3356.8	1073.0	632.6	521.0	444.3	407.5	404.6	400.7	390.0	389.0
62.5°	4666.6	2883.4	893.5	587.0	494.8	424.9	385.2	390.0	392.9	387.1	386.1
65°	4032.1	2341.0	763.5	523.9	459.9	397.8	360.9	373.5	381.3	381.3	379.3
67.5°	3270.5	1797.7	643.2	469.6	416.2	360.9	333.7	343.4	349.3	347.3	352.2
70°	2324.6	1217.6	523.9	407.5	360.9	319.2	298.8	298.8	294.9	293.0	293.0
72.5°	1127.4	695.6	424.9	340.5	307.5	272.6	256.1	249.3	241.6	240.6	235.8
73°	942.0	623.8	405.5	327.9	294.9	265.8	247.4	236.7	231.9	228.0	227.0
75°	573.4	473.4	338.6	276.5	251.3	229.0	212.5	202.8	197.9	195.0	194.0
77.5°	377.4	353.1	262.9	211.5	192.1	178.5	171.7	162.0	159.1	155.2	155.2
80°	281.4	269.7	188.2	149.4	137.8	126.1	124.2	122.2	114.5	109.6	107.7
82.5°	181.4	192.1	128.1	99.9	87.3	77.6	78.6	81.5	73.7	66.9	65.0
85°	129.0	138.7	77.6	45.6	36.9	32.0	35.9	32.0	33.0	26.2	21.3
87.5°	21.3	36.9	13.6	5.8	2.9	1.9	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)