

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: P458756

Luminaire Tested: **GALN-SA3A-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458756  
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-SA3A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA 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: 12448 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

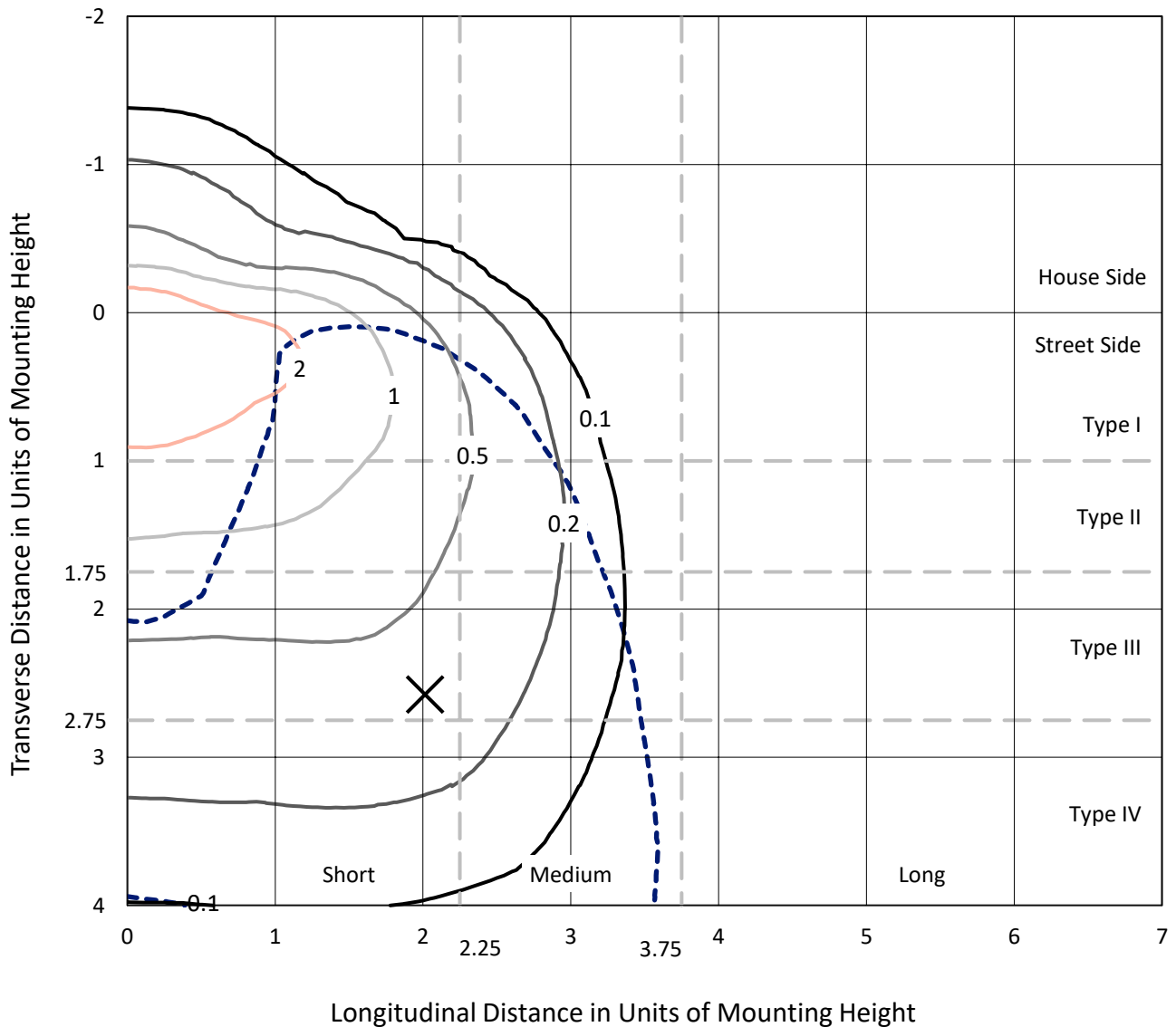
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458756  
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### Iso-Footcandle Lines of Horizontal Illumination

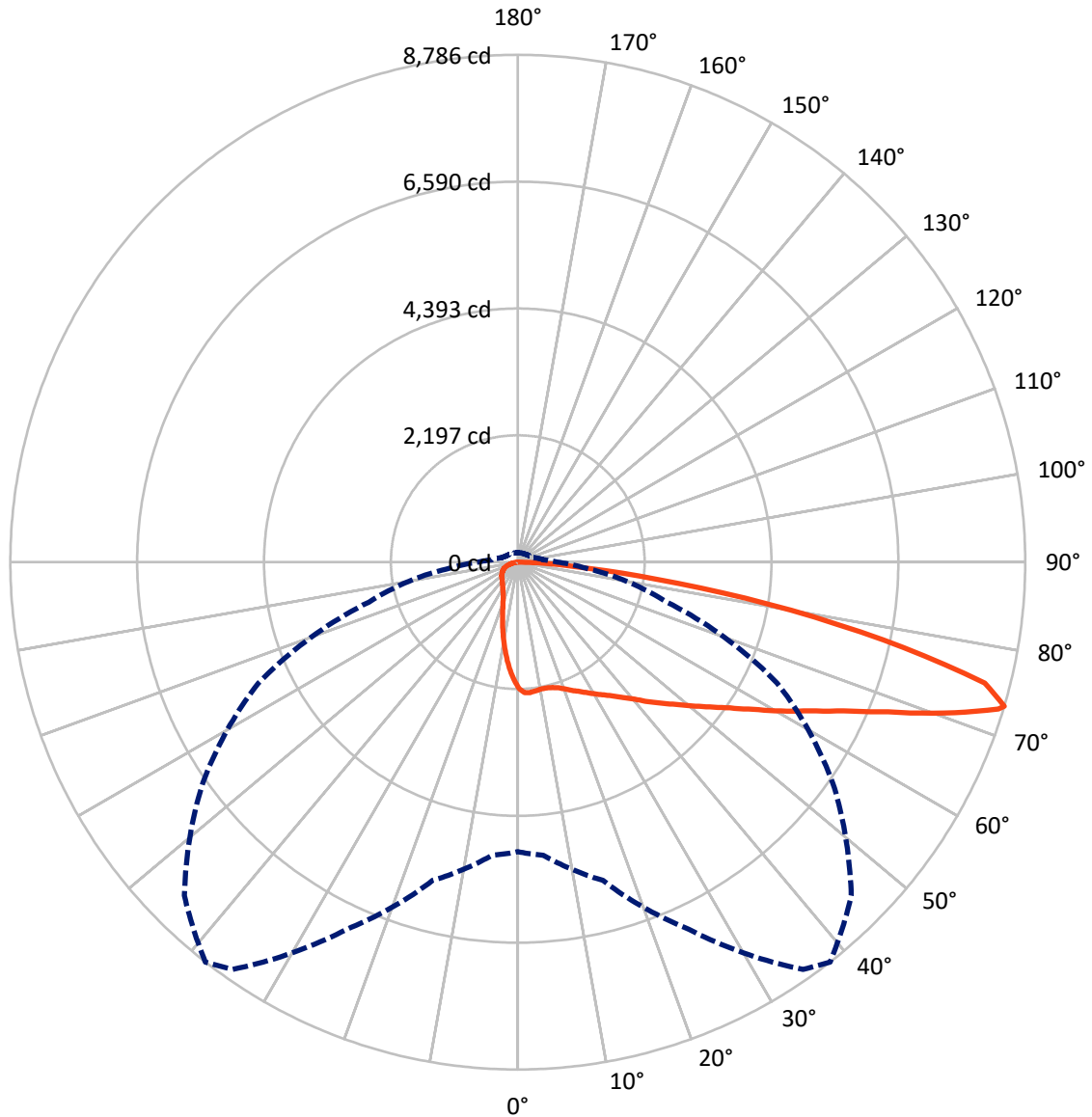
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P458756  
CATALOG NUMBER: GALN-SA3A-735-U-SL4

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA3A-735-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1673.4	0.0	1673.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	10774.6	0.0	10774.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	12448.0	0.0	12448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.9	1.5
10°-20°	489.5	3.9
20°-30°	762.3	6.1
30°-40°	1118.1	9.0
40°-50°	1658.5	13.3
50°-60°	2349.8	18.9
60°-70°	2980.8	23.9
70°-80°	2481.3	19.9
80°-90°	416.9	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°	12448.0	100.0
0°-180°	12448.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458756

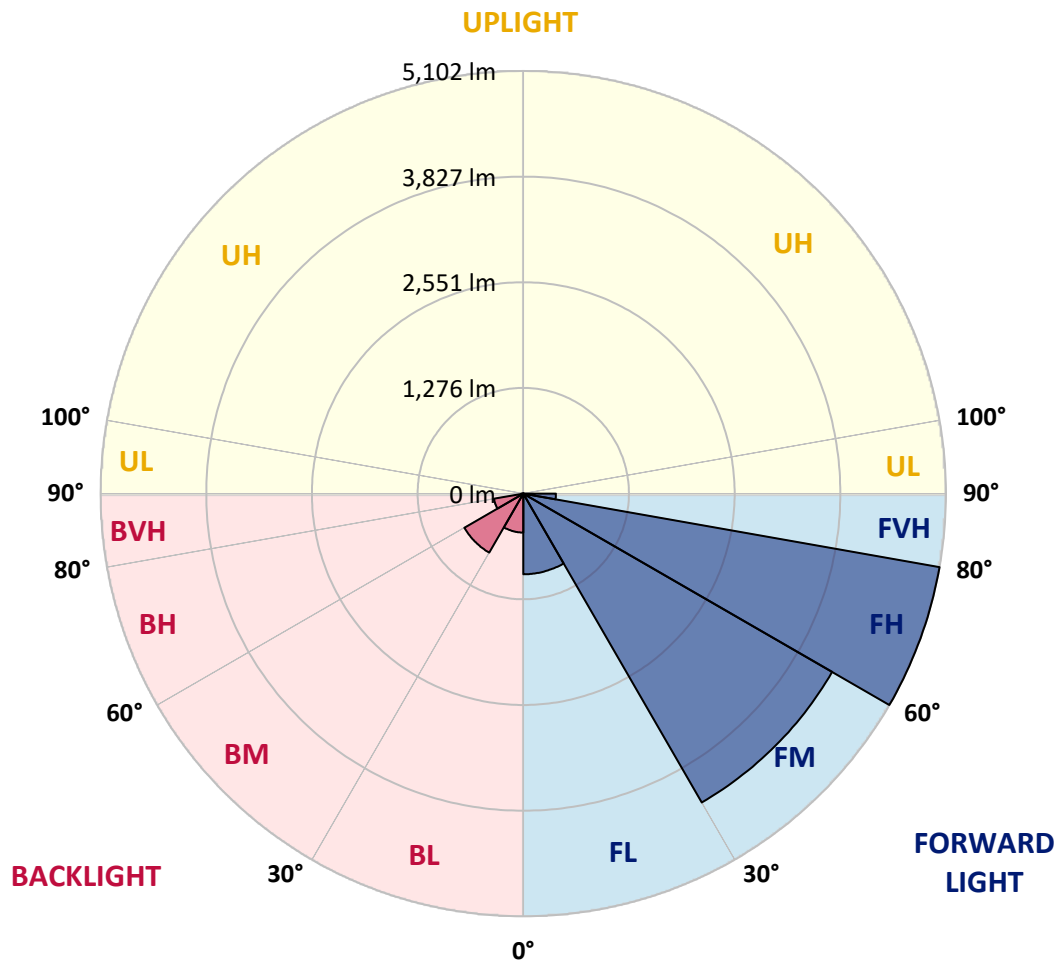
CATALOG NUMBER: GALN-SA3A-735-U-SL4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	973.1	7.8			
FM	(30°-60°)	4304.9	34.6			
FH	(60°-80°)	5102.4	41.0			G3/7500
FVH	(80°-90°)	394.3	3.2			G3/500
BL	(0°-30°)	469.6	3.8	B1/500		
BM	(30°-60°)	821.5	6.6	B1/1000		
BH	(60°-80°)	359.7	2.9	B1/500		G1/500
BVH	(80°-90°)	22.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P458756

CATALOG NUMBER: GALN-SA3A-735-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9
2.5°	2274.8	2286.0	2280.4	2272.7	2267.7	2262.8	2255.8	2235.4	2219.2	2201.7	2174.2
5°	2291.6	2298.7	2293.8	2283.9	2272.7	2267.7	2254.4	2227.7	2201.7	2172.1	2131.4
7.5°	2281.8	2284.6	2279.0	2267.0	2257.2	2248.1	2232.6	2203.1	2171.4	2135.6	2082.2
10°	2246.7	2257.2	2257.2	2247.4	2237.5	2232.6	2217.1	2189.0	2160.2	2119.4	2056.2
12.5°	2217.8	2229.1	2238.2	2235.4	2234.7	2234.7	2222.8	2201.7	2167.9	2129.3	2054.0
15°	2198.1	2211.5	2231.2	2242.4	2249.5	2251.6	2246.7	2228.4	2193.9	2148.9	2062.5
17.5°	2193.9	2210.1	2246.0	2270.6	2288.8	2288.1	2286.7	2261.4	2223.5	2177.1	2073.0
20°	2212.9	2234.0	2283.9	2322.6	2349.3	2344.4	2336.6	2303.6	2259.3	2207.3	2082.9
22.5°	2269.9	2291.6	2346.5	2388.7	2414.7	2414.7	2391.5	2347.9	2300.8	2242.4	2096.2
25°	2351.4	2375.3	2433.6	2476.5	2488.5	2479.3	2456.1	2403.4	2349.3	2293.0	2124.3
27.5°	2451.2	2480.0	2534.2	2570.0	2566.5	2559.5	2535.6	2468.1	2414.0	2362.6	2172.1
30°	2575.6	2596.7	2653.0	2661.4	2648.7	2647.3	2613.6	2546.1	2495.5	2456.1	2240.3
32.5°	2693.0	2712.0	2757.0	2760.5	2738.0	2740.8	2709.2	2647.3	2618.5	2604.5	2354.9
35°	2817.5	2827.3	2866.0	2861.7	2847.0	2844.9	2832.2	2773.2	2782.3	2807.6	2517.3
37.5°	2921.5	2941.2	2963.0	2966.5	2965.8	2972.8	2981.2	2953.1	3005.8	3085.3	2730.3
40°	3017.1	3034.0	3066.3	3077.6	3105.0	3119.0	3147.8	3148.5	3270.2	3400.9	2992.5
42.5°	3081.8	3110.6	3171.0	3191.4	3258.2	3300.4	3343.3	3389.0	3565.4	3733.4	3301.8
45°	3138.0	3176.0	3276.5	3339.8	3430.4	3481.8	3572.4	3668.0	3921.8	4141.8	3616.0
47.5°	3223.1	3256.8	3372.1	3483.9	3620.9	3680.0	3815.7	3958.4	4290.2	4531.3	3916.9
50°	3341.2	3361.5	3478.9	3661.0	3836.0	3912.0	4091.2	4297.2	4683.8	4915.8	4181.2
52.5°	3492.3	3500.7	3594.2	3836.7	4067.3	4161.5	4399.1	4639.5	5028.3	5249.7	4390.7
55°	3670.8	3656.8	3729.9	4023.0	4331.6	4454.6	4709.8	4986.1	5415.6	5519.6	4543.2
57.5°	3847.3	3825.5	3883.8	4249.4	4657.8	4806.1	5103.5	5343.2	5761.4	5772.0	4650.1
60°	4034.3	4018.1	4087.7	4515.1	5057.8	5233.5	5508.4	5713.6	6096.1	5947.7	4666.9
62.5°	4226.2	4200.2	4299.3	4813.9	5508.4	5668.0	5934.4	6107.3	6424.3	6013.1	4504.6
65°	4412.5	4400.5	4553.8	5168.9	6021.5	6202.9	6461.6	6579.0	6687.2	5914.7	4101.8
67.5°	4610.7	4634.6	4879.2	5642.6	6690.8	6918.5	7197.6	7087.2	6762.5	5448.6	3454.3
70°	4913.0	4928.4	5306.6	6263.4	7553.3	7828.1	7963.1	7267.9	6399.7	4563.6	2596.7
72.5°	5043.0	5111.2	5688.3	6915.0	8533.2	8701.2	8220.4	6865.1	5331.2	3100.0	1364.4
73°	5014.2	5095.7	5705.9	7014.1	8609.8	8786.3	8165.6	6657.7	4955.9	2669.8	1169.7
75°	4655.0	4755.5	5477.4	6931.2	8460.8	8355.4	7284.1	5674.3	3348.9	1214.0	532.8
77.5°	3673.0	3701.8	4340.1	5597.0	6662.6	6467.2	5451.4	3546.4	1368.0	451.3	302.3
80°	1842.5	1948.6	2446.3	3206.2	4455.3	4391.4	3441.0	1677.3	570.1	265.0	200.3
82.5°	886.4	961.6	1191.5	1563.4	2461.8	2403.4	1704.0	916.7	362.0	154.7	118.1
85°	570.8	627.0	758.5	745.8	1012.3	966.6	765.5	693.8	214.4	80.8	82.2
87.5°	376.8	412.6	494.9	395.8	368.4	333.2	338.1	390.8	42.2	30.9	11.2
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: P458756  
 CATALOG NUMBER: GALN-SA3A-735-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9	2186.9
2.5°	2163.0	2153.9	2123.6	2094.1	2066.0	2039.3	2021.7	1998.5	1983.0	1987.3	1993.6
5°	2108.9	2088.5	2035.1	1983.0	1933.8	1875.5	1828.4	1790.4	1761.6	1751.1	1749.0
7.5°	2051.9	2017.5	1940.9	1851.6	1767.9	1695.5	1611.9	1570.4	1521.9	1505.0	1499.4
10°	2017.5	1971.1	1863.5	1739.1	1613.3	1493.1	1402.4	1328.6	1261.8	1249.2	1242.8
12.5°	2007.6	1946.5	1801.7	1641.4	1474.1	1326.5	1192.2	1095.2	1030.5	1015.8	994.0
15°	2002.0	1926.1	1744.0	1543.0	1330.7	1150.7	1009.4	896.3	837.2	797.9	798.6
17.5°	1997.1	1902.9	1679.4	1435.4	1207.0	999.6	843.5	741.6	687.5	666.4	664.3
20°	1990.1	1875.5	1604.9	1322.3	1065.7	861.8	720.5	644.6	608.1	590.5	589.8
22.5°	1987.3	1848.8	1531.7	1207.0	940.6	755.7	639.0	585.6	562.4	550.4	550.4
25°	1994.3	1829.8	1455.1	1097.3	829.5	665.0	582.8	546.2	532.8	526.5	524.4
27.5°	2016.1	1821.4	1379.2	987.7	727.6	603.1	544.8	519.5	509.6	504.7	505.4
30°	2057.6	1820.7	1304.7	879.4	651.6	556.0	514.6	497.0	489.3	486.4	485.7
32.5°	2124.3	1836.1	1231.6	790.1	587.7	516.7	486.4	473.8	470.3	468.2	467.5
35°	2237.5	1879.7	1159.2	708.6	538.5	481.5	459.7	453.4	448.5	450.6	451.3
37.5°	2390.1	1954.9	1090.3	644.6	501.2	455.5	437.2	431.6	428.8	430.9	433.0
40°	2594.6	2063.2	1032.6	593.3	474.5	433.7	417.6	412.6	409.8	413.3	414.0
42.5°	2820.3	2188.3	984.8	553.2	452.7	415.4	400.0	394.4	392.3	394.4	395.1
45°	3052.2	2333.8	960.2	524.4	434.4	402.1	385.9	379.6	374.7	373.3	375.4
47.5°	3280.7	2460.4	959.5	506.8	419.7	390.1	372.6	365.5	359.2	355.7	355.0
50°	3467.0	2560.9	976.4	499.1	407.0	376.8	359.2	352.2	343.7	336.7	338.1
52.5°	3607.6	2626.3	984.1	495.6	400.0	362.7	345.2	338.8	329.0	319.8	319.8
55°	3698.3	2641.7	965.2	492.1	394.4	348.0	329.0	323.4	313.5	304.4	304.4
57.5°	3729.2	2593.9	897.0	483.6	388.7	335.3	312.8	307.9	300.2	291.0	289.6
60°	3657.5	2432.2	777.5	458.3	377.5	322.0	295.2	293.1	290.3	282.6	281.9
62.5°	3381.2	2089.2	647.4	425.3	358.5	307.9	279.1	282.6	284.7	280.5	279.8
65°	2921.5	1696.2	553.2	379.6	333.2	288.2	261.5	270.6	276.3	276.3	274.9
67.5°	2369.7	1302.6	466.1	340.2	301.6	261.5	241.8	248.8	253.1	251.7	255.2
70°	1684.3	882.2	379.6	295.2	261.5	231.3	216.5	216.5	213.7	212.3	212.3
72.5°	816.8	504.0	307.9	246.7	222.8	197.5	185.6	180.7	175.0	174.3	170.8
73°	682.6	452.0	293.8	237.6	213.7	192.6	179.3	171.5	168.0	165.2	164.5
75°	415.4	343.0	245.3	200.3	182.1	165.9	153.9	146.9	143.4	141.3	140.6
77.5°	273.5	255.9	190.5	153.2	139.2	129.3	124.4	117.4	115.3	112.5	112.5
80°	203.9	195.4	136.4	108.3	99.8	91.4	90.0	88.6	82.9	79.4	78.0
82.5°	131.5	139.2	92.8	72.4	63.3	56.2	56.9	59.0	53.4	48.5	47.1
85°	93.5	100.5	56.2	33.0	26.7	23.2	26.0	23.2	23.9	19.0	15.5
87.5°	15.5	26.7	9.8	4.2	2.1	1.4	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)