

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: P452099

Luminaire Tested: **GALN-SA3A-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12723 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

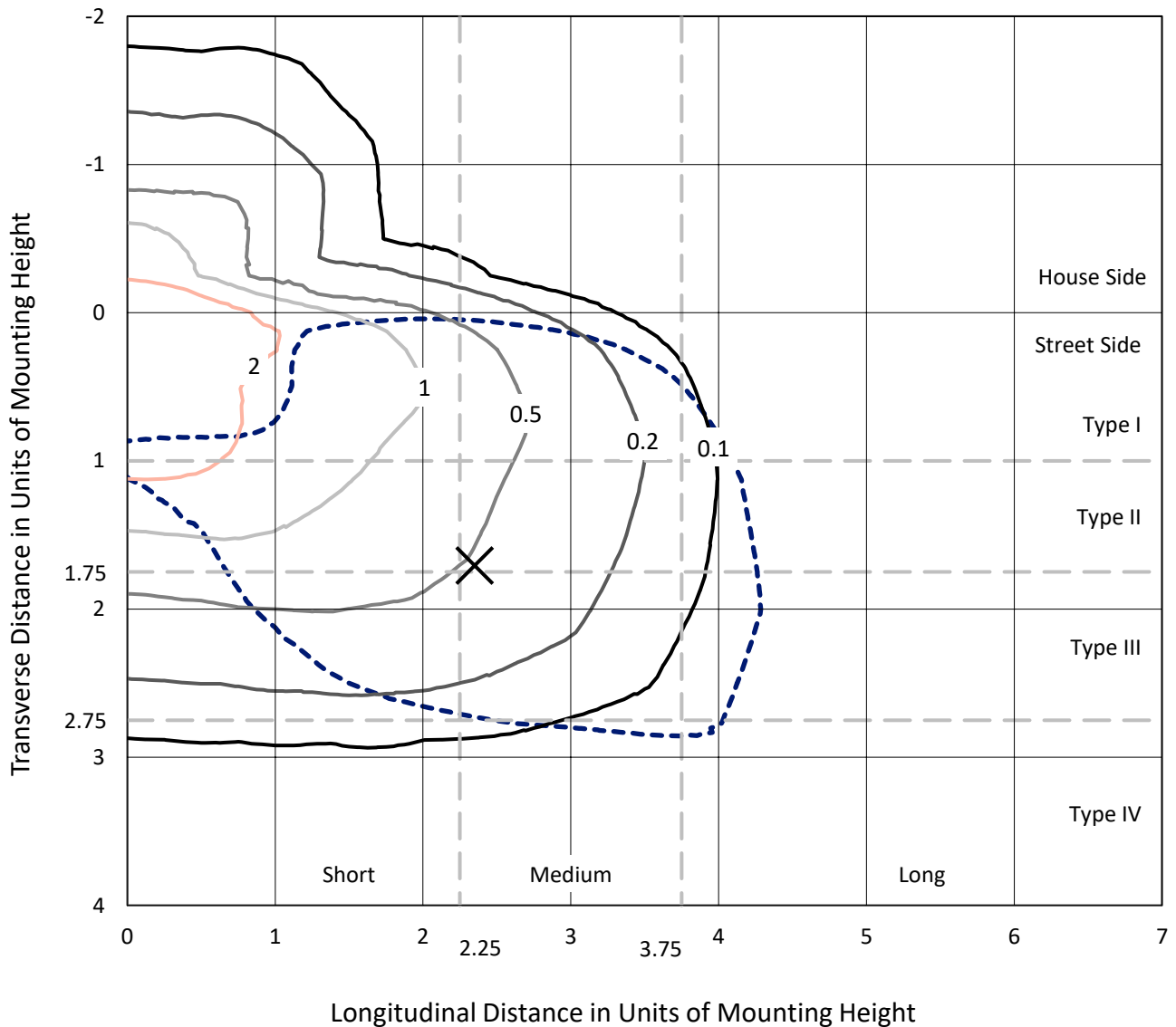
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

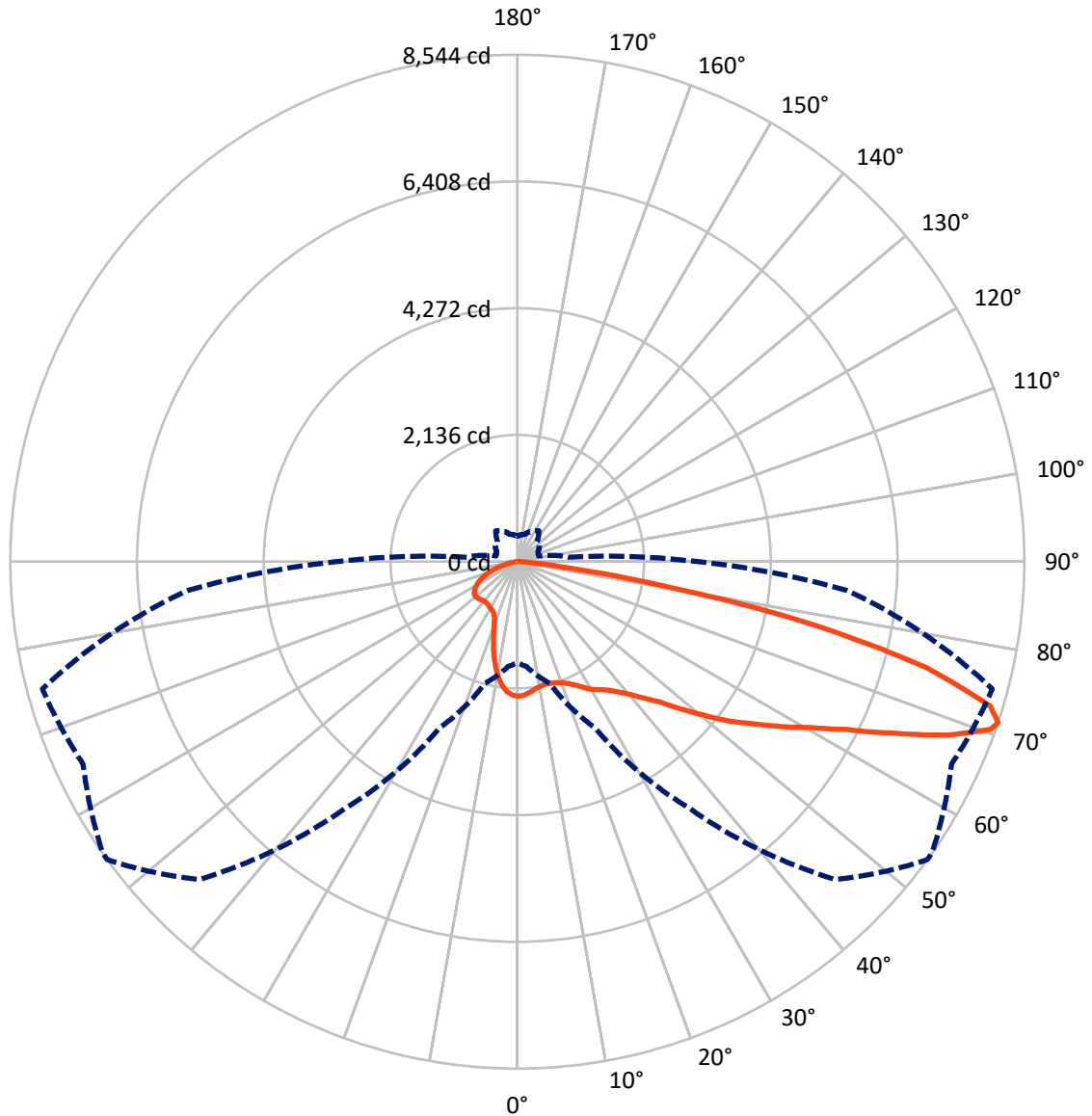
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2297.1	0.0	2297.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10425.9	0.0	10425.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	12723.0	0.0	12723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.3	1.6
10°-20°	534.1	4.2
20°-30°	889.4	7.0
30°-40°	1315.1	10.3
40°-50°	1852.3	14.6
50°-60°	2480.4	19.5
60°-70°	3126.3	24.6
70°-80°	2135.3	16.8
80°-90°	187.8	1.5
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°	12723.0	100.0
0°-180°	12723.0	100.0

**Coefficient of Utilization**



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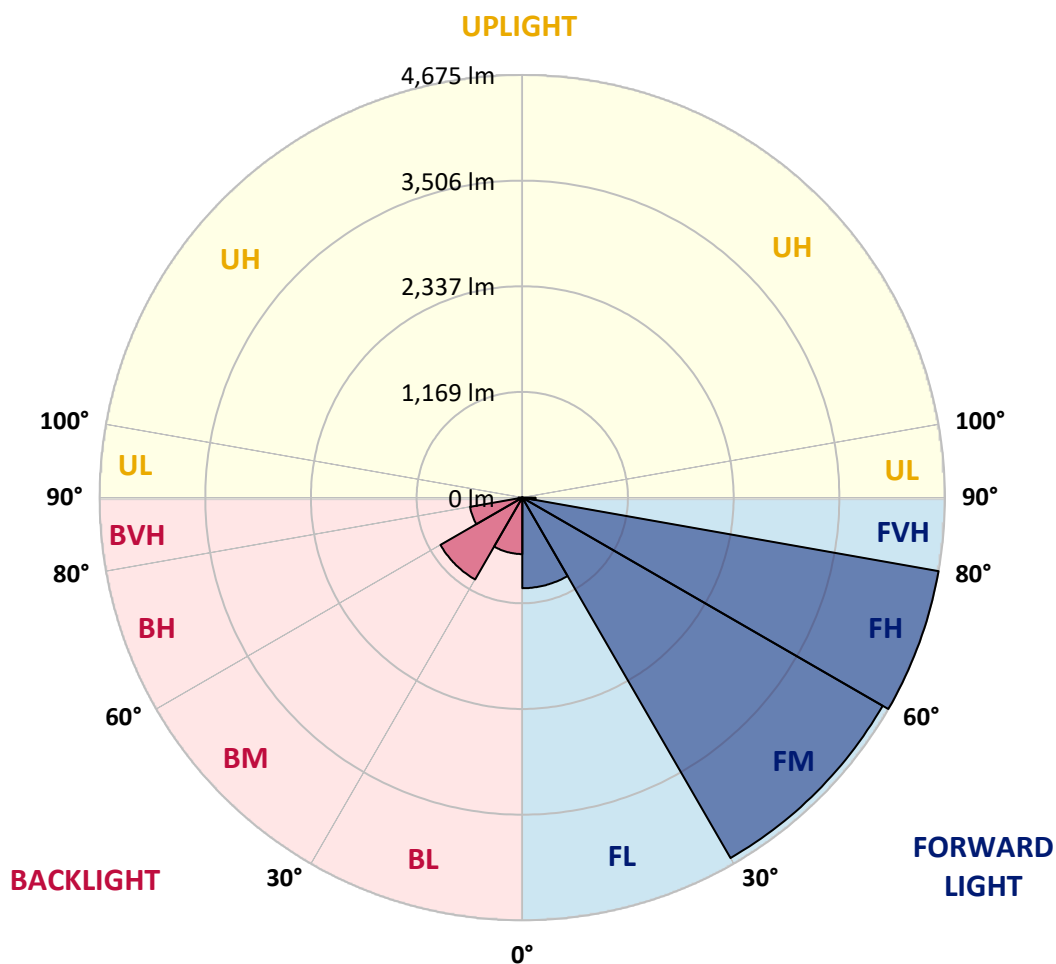
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.5	7.9			
FM	(30°-60°)	4602.7	36.2			
FH	(60°-80°)	4674.9	36.7			G2/5000
FVH	(80°-90°)	146.8	1.2			G2/225
BL	(0°-30°)	624.3	4.9	B2/1000		
BM	(30°-60°)	1045.1	8.2	B2/2500		
BH	(60°-80°)	586.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	41.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0
2.5°	2193.0	2203.3	2206.1	2212.9	2227.4	2239.0	2250.7	2249.4	2265.8	2272.7	2278.9
5°	2095.4	2098.2	2108.5	2122.2	2147.6	2179.9	2211.6	2212.2	2252.8	2285.1	2300.9
7.5°	2023.9	2032.9	2039.7	2054.2	2081.0	2116.0	2166.2	2170.3	2242.5	2306.4	2340.1
10°	1977.2	1987.5	1995.1	2012.9	2039.7	2078.9	2133.2	2140.8	2234.9	2340.1	2399.2
12.5°	1934.6	1944.9	1951.8	1975.1	2010.2	2058.3	2119.5	2128.4	2237.7	2379.2	2463.8
15°	1960.7	1969.0	1966.2	1973.1	1996.4	2051.4	2125.0	2133.9	2248.0	2417.0	2527.7
17.5°	2076.9	2083.7	2061.0	2034.9	2023.9	2064.5	2142.1	2151.8	2268.6	2456.2	2593.0
20°	2248.0	2266.5	2217.1	2158.6	2105.7	2111.2	2177.9	2188.2	2297.5	2495.4	2659.6
22.5°	2470.6	2484.4	2423.9	2327.7	2230.1	2179.9	2231.5	2237.7	2340.8	2546.2	2732.5
25°	2732.5	2740.7	2656.9	2533.2	2392.3	2297.5	2305.0	2316.0	2412.2	2604.0	2797.1
27.5°	2986.8	3012.9	2916.0	2764.8	2579.2	2421.2	2406.0	2412.9	2489.9	2636.3	2841.8
30°	3288.5	3286.4	3184.0	3008.8	2771.0	2555.9	2501.6	2500.2	2531.8	2652.1	2874.1
32.5°	3529.0	3557.2	3456.8	3265.8	2990.2	2695.4	2567.5	2564.8	2564.1	2679.6	2922.2
35°	3802.5	3806.7	3714.6	3522.1	3227.3	2870.6	2659.6	2645.9	2630.1	2738.7	2987.5
37.5°	4047.2	4066.4	3981.9	3766.1	3460.3	3052.7	2786.1	2777.2	2729.1	2841.1	3091.9
40°	4238.2	4252.7	4201.8	3996.3	3689.8	3249.3	2946.9	2930.4	2872.0	3008.8	3231.4
42.5°	4300.8	4330.3	4350.3	4249.2	3953.7	3482.3	3144.8	3124.2	3079.5	3263.0	3392.2
45°	4305.6	4352.3	4457.5	4462.3	4219.0	3761.3	3375.7	3361.3	3357.9	3588.8	3618.3
47.5°	4269.2	4316.6	4493.2	4588.7	4455.4	4043.1	3709.1	3686.4	3688.4	3991.5	3871.9
50°	4181.2	4237.6	4452.0	4669.8	4640.3	4335.8	4060.9	4053.4	4096.0	4451.3	4135.2
52.5°	4015.6	4083.6	4409.4	4720.7	4777.7	4588.1	4460.9	4439.6	4547.5	4950.2	4423.1
55°	3557.2	3659.6	4253.4	4748.9	4908.3	4829.3	4821.0	4859.5	5002.5	5494.5	4739.9
57.5°	3318.0	3395.0	3914.5	4753.7	5073.2	5109.7	5241.6	5251.2	5501.4	6072.5	5098.0
60°	3187.4	3255.5	3729.0	4722.1	5303.5	5456.7	5671.8	5706.2	5988.7	6698.6	5469.1
62.5°	3073.4	3131.8	3617.7	4612.8	5563.3	5971.5	6229.2	6245.7	6541.9	7389.9	5835.4
65°	2804.6	2871.3	3393.6	4503.5	5787.3	6614.7	6968.7	6949.4	7130.9	7986.5	6064.9
67.5°	2442.5	2527.0	2975.1	4126.2	5897.9	7317.8	7801.6	7777.6	7712.3	8377.5	6130.9
70°	1980.0	2025.3	2439.7	3474.0	5456.0	7686.8	8459.3	8433.9	8072.4	8429.1	5818.9
71°	1703.7	1774.5	2124.3	3085.7	5088.4	7574.1	8543.8	8537.0	8073.1	8286.8	5583.9
72.5°	1329.8	1373.1	1682.4	2390.9	4324.8	6933.6	8334.9	8361.0	7897.8	7891.6	5099.4
75°	841.2	860.4	1055.6	1407.5	2373.1	4910.4	7115.1	7185.8	7012.7	6459.4	3792.2
77.5°	488.6	513.4	632.3	829.5	1025.4	2665.1	5091.1	5168.1	4872.6	3556.5	1552.5
80°	284.5	312.0	416.5	481.8	470.8	988.9	2592.3	2723.6	2109.8	898.2	435.7
82.5°	158.1	176.6	292.8	293.5	250.8	323.0	815.8	853.6	602.0	362.2	178.0
85°	114.8	129.9	189.0	171.1	120.3	138.8	283.8	297.6	243.3	152.6	57.7
87.5°	40.5	57.7	103.8	82.5	33.0	28.9	81.8	66.7	61.9	42.6	13.1
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°	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0	2270.0
2.5°	2282.3	2283.7	2276.8	2264.5	2252.1	2236.3	2218.4	2204.7	2198.5	2197.8	2197.1
5°	2307.1	2310.5	2284.4	2245.9	2203.3	2151.1	2106.4	2055.6	2042.5	2021.9	2028.1
7.5°	2346.9	2344.9	2293.3	2211.6	2111.9	2001.3	1907.8	1853.5	1797.1	1781.3	1782.0
10°	2404.0	2390.9	2293.3	2141.5	1975.1	1810.9	1680.3	1597.8	1553.2	1516.1	1502.3
12.5°	2464.5	2431.5	2271.3	2043.2	1799.2	1597.8	1457.6	1346.3	1317.4	1287.2	1287.9
15°	2522.2	2467.2	2228.0	1905.0	1609.5	1370.4	1234.3	1167.6	1158.7	1162.1	1161.4
17.5°	2574.4	2492.6	2162.1	1751.1	1388.2	1175.2	1103.0	1107.8	1131.9	1149.1	1151.1
20°	2627.3	2507.8	2063.8	1544.9	1179.3	1057.0	1059.7	1097.5	1134.0	1157.3	1160.8
22.5°	2677.5	2514.6	1948.3	1345.6	1028.1	1006.8	1047.4	1087.9	1123.6	1146.3	1149.8
25°	2710.5	2498.8	1784.8	1137.4	953.9	988.9	1031.6	1065.9	1096.2	1119.5	1125.0
27.5°	2719.4	2448.0	1582.0	969.0	919.5	971.8	1010.9	1036.4	1059.7	1081.7	1085.8
30°	2714.6	2373.1	1359.4	870.1	899.6	951.8	982.1	1000.6	1028.8	1046.0	1049.4
32.5°	2707.1	2285.8	1127.1	817.1	883.1	933.3	951.1	967.6	967.0	960.1	964.9
35°	2709.8	2181.3	938.8	785.5	868.7	919.5	934.7	914.0	854.9	852.2	849.4
37.5°	2724.2	2078.2	802.0	763.5	861.1	917.5	925.7	830.9	778.6	754.6	748.4
40°	2761.4	1958.0	712.0	747.0	860.4	933.3	885.2	789.0	688.6	641.9	638.5
42.5°	2810.8	1839.8	657.0	736.7	868.7	957.3	868.7	729.9	620.6	593.1	589.0
45°	2884.4	1704.4	626.8	731.9	881.0	966.3	863.2	686.6	593.1	571.1	571.1
47.5°	2967.5	1575.2	610.3	728.5	896.9	960.1	814.4	672.8	580.0	582.8	595.8
50°	3050.0	1463.1	597.9	720.9	910.6	956.6	794.5	672.1	583.5	618.5	641.9
52.5°	3145.5	1384.1	582.8	708.6	910.6	934.7	788.3	685.9	593.1	603.4	613.7
55°	3261.0	1359.4	563.5	681.7	894.1	879.7	784.8	705.8	600.0	575.9	580.0
57.5°	3413.5	1399.2	545.0	648.1	856.3	822.6	783.5	711.3	584.2	564.2	560.1
60°	3590.9	1478.3	539.5	613.7	804.8	773.8	775.2	695.5	562.2	541.5	545.0
62.5°	3715.2	1525.7	536.1	587.6	748.4	720.2	755.3	676.2	552.5	534.7	538.1
65°	3715.2	1468.0	504.4	547.7	675.6	655.6	731.2	652.2	540.2	519.6	516.1
67.5°	3574.4	1299.6	456.3	487.9	595.2	582.1	697.6	623.3	521.6	505.8	497.6
70°	3207.4	985.5	395.9	417.8	493.4	505.1	654.3	584.2	490.7	471.5	459.1
71°	3045.9	858.4	370.4	382.1	454.3	471.5	633.6	567.7	476.9	449.5	427.5
72.5°	2734.5	723.0	331.9	336.8	388.3	419.2	590.3	536.1	450.8	411.7	386.9
75°	2077.5	527.8	267.3	264.6	287.3	332.6	499.6	477.6	395.2	342.2	327.8
77.5°	897.5	287.3	200.0	202.1	195.2	252.2	393.1	410.3	338.8	278.3	265.3
80°	272.1	165.6	136.8	139.5	130.6	169.1	277.0	321.6	272.1	216.5	198.6
82.5°	139.5	99.0	93.5	92.1	83.2	95.5	167.7	219.9	194.5	135.4	119.6
85°	60.5	52.9	46.0	44.7	39.2	34.4	59.8	110.0	103.1	75.6	72.2
87.5°	15.1	13.7	8.9	8.2	4.8	0.7	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)