

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: P451368

Luminaire Tested: **GALN-SA2B-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9624 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

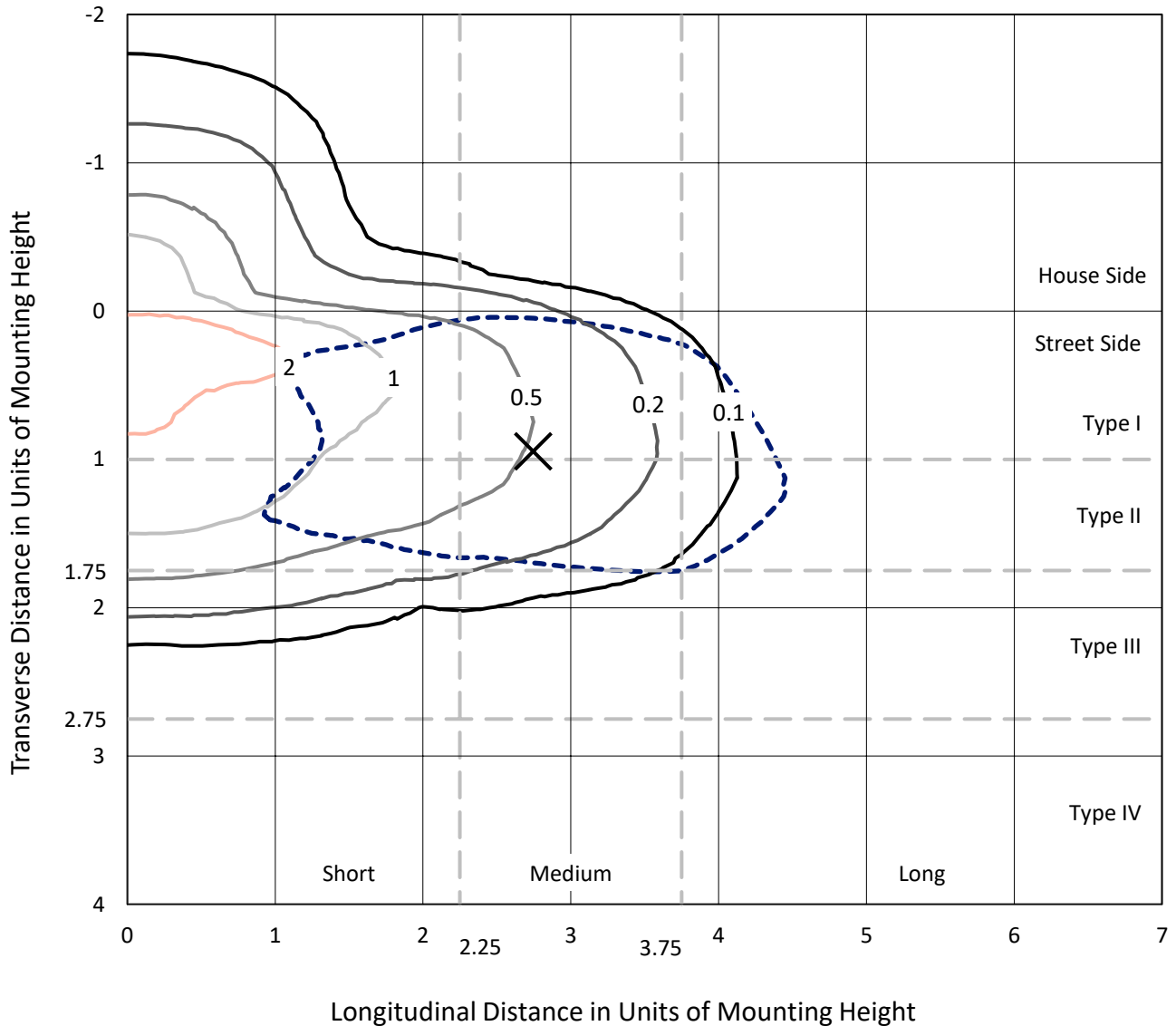
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

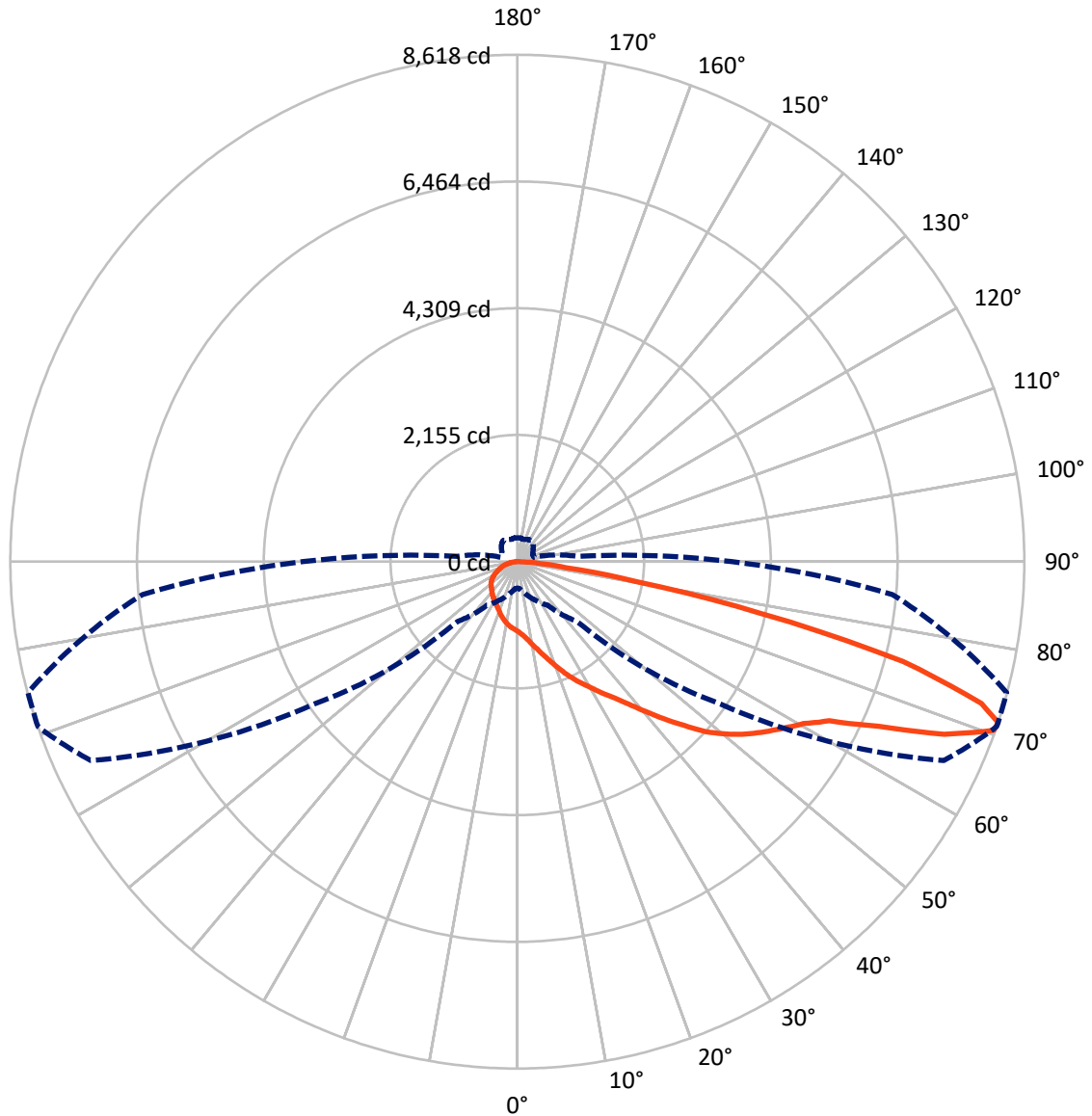
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1730.9	0.0	1730.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	7893.1	0.0	7893.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	9624.0	0.0	9624.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.6	1.2
10°-20°	385.3	4.0
20°-30°	673.4	7.0
30°-40°	1001.5	10.4
40°-50°	1475.6	15.3
50°-60°	2065.9	21.5
60°-70°	2310.7	24.0
70°-80°	1411.4	14.7
80°-90°	181.6	1.9
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°	9624.0	100.0
0°-180°	9624.0	100.0

**Coefficient of Utilization**



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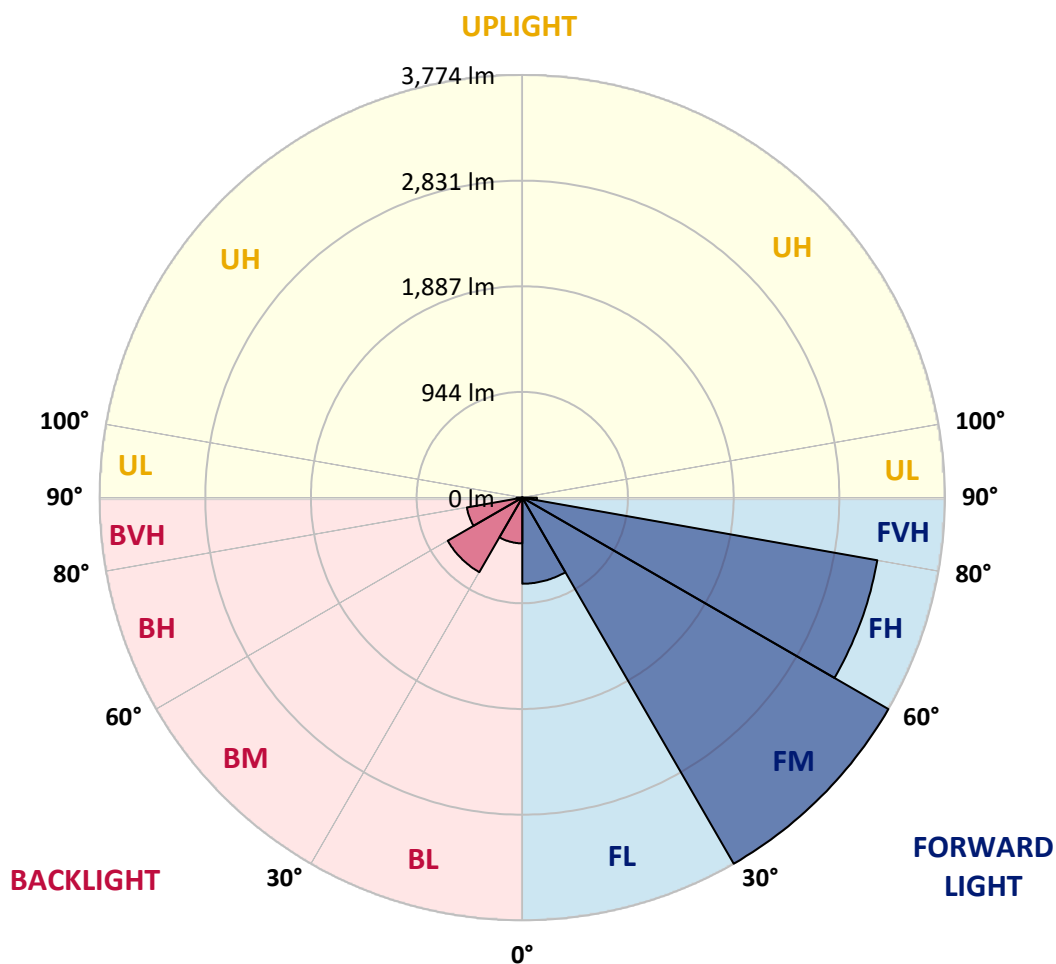
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.0	8.0			
FM	(30°-60°)	3774.3	39.2			
FH	(60°-80°)	3219.2	33.4			G2/5000
FVH	(80°-90°)	130.6	1.4			G2/225
BL	(0°-30°)	408.3	4.2	B1/500		
BM	(30°-60°)	768.7	8.0	B1/1000		
BH	(60°-80°)	502.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	50.9	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2
2.5°	1311.3	1304.9	1305.5	1296.5	1284.8	1272.1	1254.2	1238.3	1225.6	1218.2	1196.5
5°	1453.0	1446.7	1438.8	1419.2	1410.7	1379.5	1339.8	1303.9	1276.4	1261.0	1217.7
7.5°	1567.8	1566.2	1564.1	1553.0	1531.3	1487.9	1454.1	1391.7	1351.0	1321.9	1247.8
10°	1638.7	1641.3	1642.9	1645.0	1636.1	1613.3	1566.8	1487.9	1436.1	1399.1	1286.9
12.5°	1674.7	1677.3	1686.3	1705.9	1718.0	1715.4	1677.3	1600.1	1528.7	1480.0	1328.7
15°	1696.9	1701.1	1717.0	1742.9	1783.6	1809.6	1791.0	1719.6	1641.3	1583.7	1378.5
17.5°	1721.2	1726.0	1743.4	1780.5	1833.9	1890.0	1910.1	1848.7	1763.5	1694.8	1434.0
20°	1735.0	1741.3	1766.2	1814.8	1877.3	1958.7	2025.4	1993.1	1900.0	1823.8	1498.0
22.5°	1757.2	1762.5	1783.6	1835.5	1910.1	2012.1	2140.7	2133.8	2051.8	1953.4	1568.4
25°	1817.5	1826.0	1836.5	1867.7	1939.7	2066.6	2236.4	2284.0	2198.9	2088.8	1632.9
27.5°	1931.2	1938.1	1937.6	1941.8	1982.5	2113.7	2319.5	2432.7	2344.9	2225.8	1695.3
30°	2060.8	2063.5	2065.6	2056.0	2065.0	2161.8	2395.6	2579.7	2491.9	2366.5	1749.8
32.5°	2218.4	2223.7	2205.7	2181.4	2174.0	2233.2	2458.6	2726.8	2665.9	2509.4	1803.7
35°	2404.6	2418.4	2381.9	2339.0	2308.9	2335.9	2543.2	2877.0	2844.2	2691.9	1875.1
37.5°	2617.3	2634.2	2600.3	2516.2	2473.4	2480.8	2653.8	3062.6	3069.5	2899.7	1981.5
40°	2791.3	2813.5	2814.6	2695.6	2630.5	2639.0	2793.9	3262.6	3341.4	3156.8	2106.8
42.5°	2906.1	2927.8	2950.5	2880.7	2812.5	2860.6	2957.4	3479.5	3647.1	3468.9	2281.9
45°	3032.0	3051.5	3064.2	3032.5	2994.4	3119.2	3154.7	3710.1	3973.0	3817.5	2473.4
47.5°	3178.0	3199.6	3211.8	3181.7	3167.4	3346.2	3367.3	3925.4	4321.0	4156.0	2685.0
50°	3372.6	3389.0	3382.7	3363.6	3360.5	3520.2	3571.5	4126.9	4608.3	4520.4	2904.5
52.5°	3614.9	3634.4	3641.3	3614.3	3602.2	3644.5	3736.0	4310.5	4869.6	4833.6	3138.8
55°	3761.4	3792.6	3897.3	3939.7	3968.7	3805.3	3913.2	4513.0	5103.9	5163.7	3390.6
57.5°	3573.6	3613.8	3848.1	4059.7	4333.2	4207.3	4164.5	4724.6	5338.2	5483.7	3692.1
60°	3115.5	3124.5	3426.6	3816.4	4366.5	4724.1	4688.7	5061.0	5592.1	5806.3	4089.3
62.5°	2161.3	2180.4	2537.4	3159.4	3955.0	4910.3	5580.5	5641.8	5956.0	6289.3	4671.7
65°	1114.5	1089.6	1415.0	1985.7	2981.7	4468.1	6303.0	6709.8	6745.2	7044.6	5491.6
67.5°	686.1	697.2	849.5	1159.5	1763.0	3247.3	6227.4	8014.7	7828.0	7971.9	6252.8
70°	515.2	529.0	633.7	793.4	1074.8	1856.6	5008.1	8331.0	8591.8	8554.8	6484.5
71°	448.0	462.3	571.3	722.0	902.9	1432.9	4219.5	7999.9	8618.3	8611.9	6397.2
72.5°	381.9	390.9	476.1	611.5	761.2	1004.5	3170.0	7174.7	8250.6	8461.7	6085.6
75°	299.9	306.8	344.9	466.5	599.3	616.8	1701.1	5378.9	6776.4	7178.4	5066.3
77.5°	244.4	249.1	268.7	346.5	462.3	436.9	892.3	3501.2	4245.4	4650.0	2984.4
80°	194.1	199.4	211.1	234.9	346.5	311.6	425.8	1774.1	2050.8	2046.5	1191.2
82.5°	150.8	152.3	166.1	172.4	237.0	221.1	230.6	751.1	832.0	859.6	430.0
85°	95.2	100.0	147.0	132.2	141.8	129.6	113.7	298.3	367.6	362.3	171.9
87.5°	29.1	30.7	49.7	56.1	62.9	56.6	41.8	87.8	107.4	116.4	42.8
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°	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2	1181.2
2.5°	1188.0	1182.2	1161.6	1144.7	1128.8	1111.3	1096.5	1092.3	1088.6	1087.0	1086.5
5°	1199.1	1181.7	1141.0	1107.6	1081.2	1056.9	1041.5	1034.6	1027.8	1027.8	1029.9
7.5°	1215.0	1183.3	1120.3	1070.6	1037.3	1014.5	1003.4	1002.4	1004.0	1005.5	1006.1
10°	1232.5	1182.2	1090.2	1028.3	998.7	988.1	988.6	997.6	1006.1	1012.4	1013.5
12.5°	1249.4	1175.9	1054.7	988.6	969.6	971.7	986.5	1006.6	1023.0	1032.0	1032.5
15°	1268.4	1165.8	1011.9	951.1	944.7	961.1	988.6	1019.3	1044.2	1059.0	1060.6
17.5°	1284.3	1148.9	966.9	914.6	922.5	952.6	990.7	1030.4	1060.6	1079.1	1082.2
20°	1302.3	1127.2	920.4	879.7	902.4	943.1	986.5	1029.3	1060.6	1078.5	1082.8
22.5°	1316.6	1096.5	875.9	851.1	884.4	931.5	972.2	1006.6	1032.0	1041.5	1047.9
25°	1322.4	1057.9	834.2	827.8	870.1	912.4	940.0	959.5	967.5	966.4	969.0
27.5°	1319.2	1013.5	798.2	809.3	852.1	882.8	896.6	895.0	880.7	867.5	873.8
30°	1306.0	960.6	768.0	790.3	828.9	845.8	843.7	823.1	796.1	771.2	772.8
32.5°	1282.2	903.5	740.0	768.6	796.1	803.5	789.2	762.2	723.6	691.3	686.6
35°	1262.1	849.0	715.1	743.7	763.3	759.6	745.8	710.9	676.0	647.4	642.7
37.5°	1258.9	802.4	691.3	715.7	726.8	721.5	704.6	674.9	662.3	640.6	637.9
40°	1275.8	769.6	667.0	686.1	691.3	687.1	668.6	651.7	663.3	658.0	658.0
42.5°	1321.9	752.2	645.3	656.4	660.7	663.8	650.6	636.3	650.6	626.3	618.3
45°	1394.9	752.7	625.8	627.3	640.0	651.1	642.2	621.0	613.6	564.9	555.4
47.5°	1502.2	770.7	609.9	599.8	622.6	641.1	628.4	597.7	564.9	532.7	526.8
50°	1627.6	803.0	595.6	571.3	599.3	628.4	618.9	582.9	549.1	529.5	525.8
52.5°	1766.7	843.7	578.1	539.5	570.7	622.6	621.0	580.8	534.2	521.0	517.8
55°	1938.6	883.9	556.5	502.5	545.4	617.8	615.2	563.3	531.1	521.5	520.5
57.5°	2138.6	942.1	525.3	465.0	516.3	598.2	592.4	552.8	520.5	513.6	513.1
60°	2460.7	1032.5	480.8	430.6	486.6	563.9	571.3	534.8	503.6	502.0	501.4
62.5°	2884.4	1159.5	434.8	395.1	452.3	519.4	540.6	510.4	485.6	493.5	494.6
65°	3469.4	1266.3	387.2	365.0	414.2	476.6	511.5	487.7	465.5	480.8	480.8
67.5°	3850.8	1268.4	343.8	333.8	375.6	440.6	480.8	460.7	439.6	465.5	466.5
70°	3771.4	1111.3	307.9	301.0	338.0	402.0	447.0	431.1	406.8	430.0	421.6
71°	3643.4	1024.1	293.6	288.3	323.2	383.5	431.1	417.9	393.5	408.9	404.1
72.5°	3439.3	889.2	270.3	271.4	301.0	360.2	408.9	395.1	370.8	379.3	377.7
75°	2907.1	776.5	231.2	235.9	258.7	320.5	364.4	353.9	329.0	329.0	327.4
77.5°	1817.5	542.7	192.0	194.7	219.5	274.5	313.1	304.1	280.3	272.4	270.3
80°	678.1	280.3	150.2	153.4	168.7	216.3	259.2	250.7	226.4	217.4	208.9
82.5°	256.5	140.7	110.6	107.9	124.3	165.0	203.1	193.1	174.0	152.3	146.0
85°	96.8	69.8	67.7	65.6	73.0	97.9	125.9	123.8	103.7	88.3	86.7
87.5°	25.4	22.7	26.4	19.6	20.6	18.5	19.0	7.9	3.7	1.6	1.1
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)