

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: P452528

Luminaire Tested: **GALN-SA3C-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452528  
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-SA3C-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17652 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

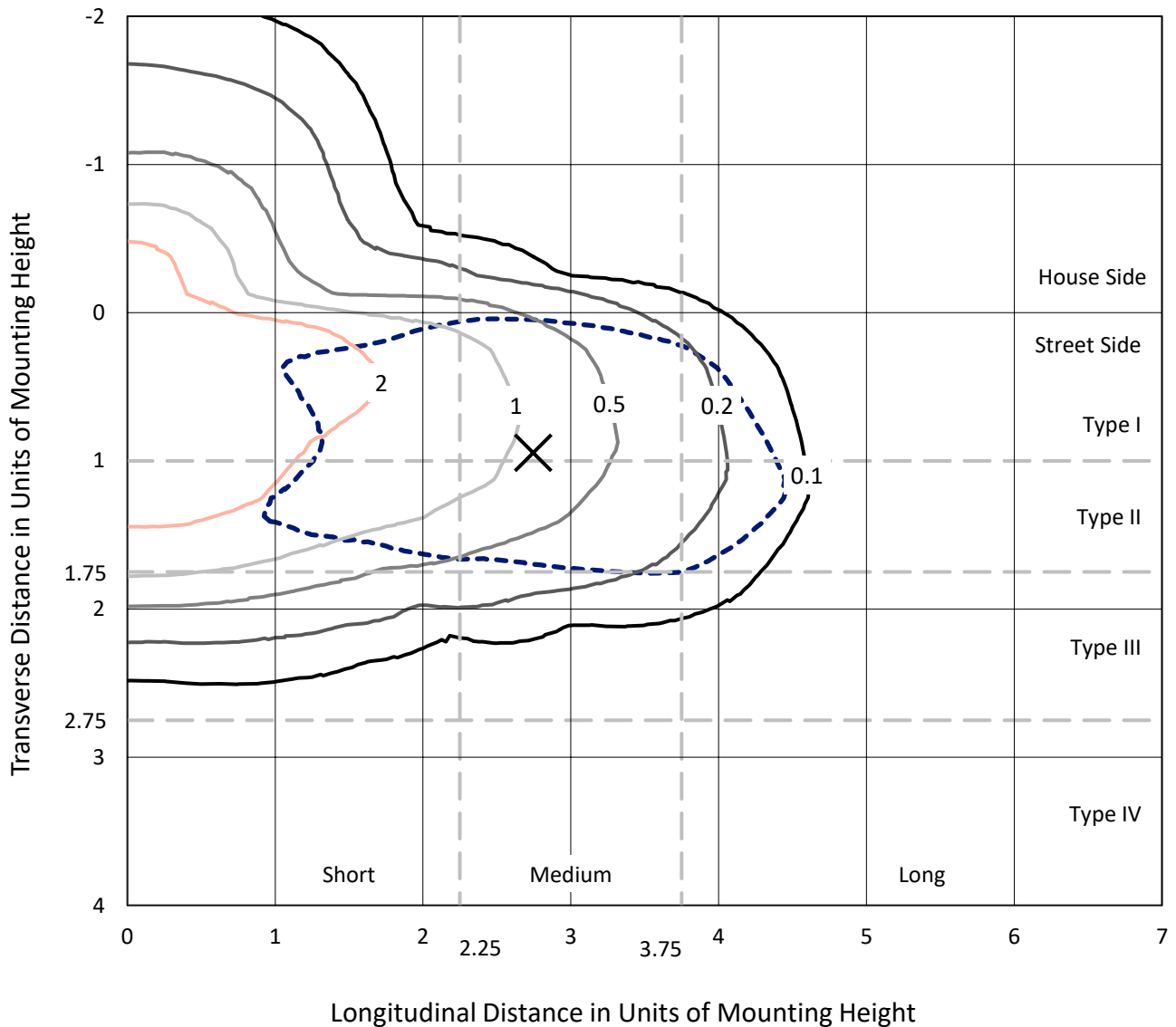
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452528  
 CATALOG NUMBER: GALN-SA3C-727-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

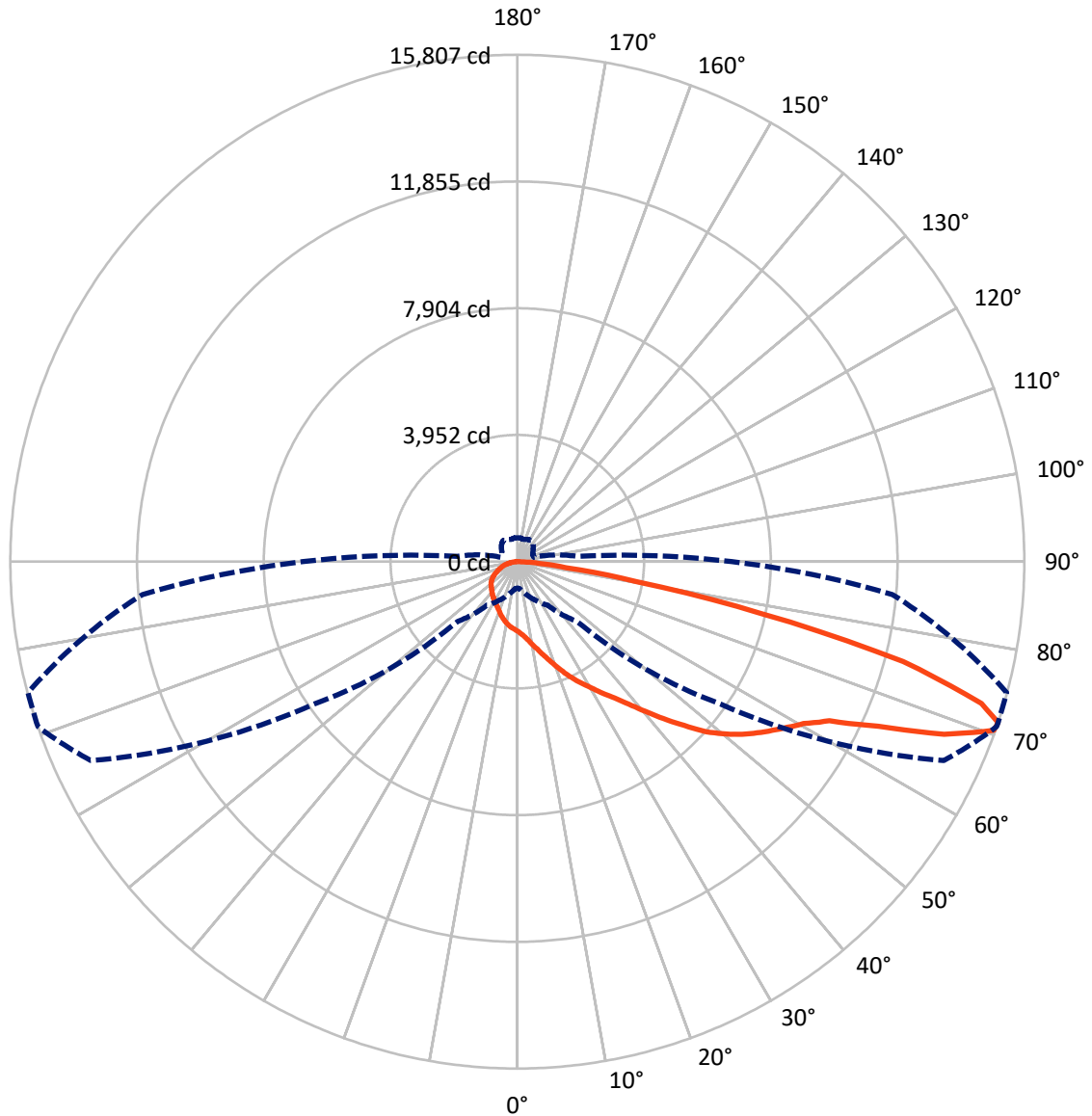
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P452528  
CATALOG NUMBER: GALN-SA3C-727-U-T2

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA3C-727-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3174.7	0.0	3174.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	14477.3	0.0	14477.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	17652.0	0.0	17652.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.5	1.2
10°-20°	706.7	4.0
20°-30°	1235.1	7.0
30°-40°	1837.0	10.4
40°-50°	2706.6	15.3
50°-60°	3789.2	21.5
60°-70°	4238.1	24.0
70°-80°	2588.8	14.7
80°-90°	333.0	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°	17652.0	100.0
0°-180°	17652.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452528

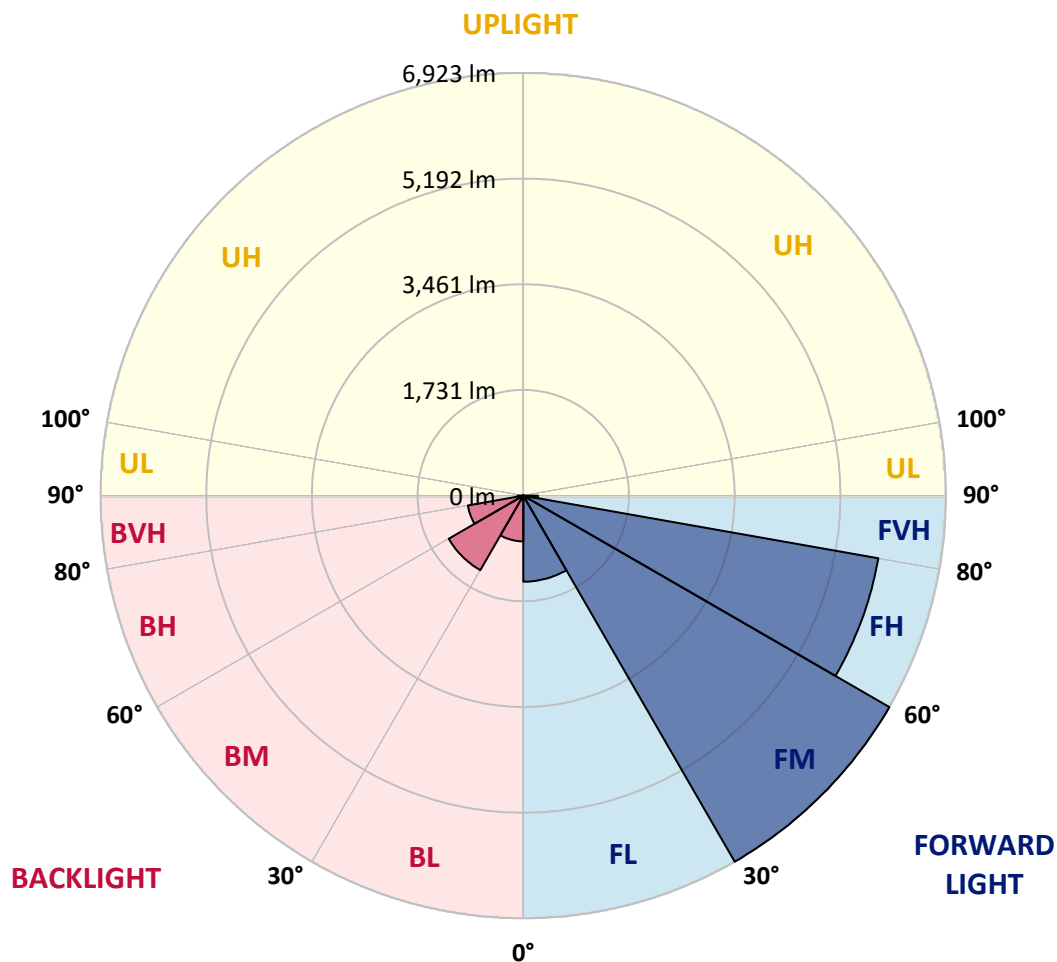
CATALOG NUMBER: GALN-SA3C-727-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.4	8.0			
FM (30°-60°)	6922.8	39.2			
FH (60°-80°)	5904.5	33.4			G3/7500
FVH (80°-90°)	239.6	1.4			G3/500
BL (0°-30°)	748.9	4.2	B2/1000		
BM (30°-60°)	1410.0	8.0	B2/2500		
BH (60°-80°)	922.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	93.4	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-G3**

Type II Medium





REPORT NUMBER: P452528

CATALOG NUMBER: GALN-SA3C-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4
2.5°	2405.1	2393.5	2394.4	2377.9	2356.6	2333.3	2300.3	2271.2	2247.9	2234.3	2194.6
5°	2665.1	2653.5	2638.9	2603.0	2587.5	2530.3	2457.5	2391.5	2341.1	2312.9	2233.4
7.5°	2875.6	2872.7	2868.9	2848.5	2808.7	2729.1	2667.1	2552.6	2477.9	2424.5	2288.7
10°	3005.6	3010.5	3013.4	3017.3	3000.8	2959.1	2873.7	2729.1	2634.1	2566.2	2360.5
12.5°	3071.6	3076.5	3093.0	3128.9	3151.2	3146.3	3076.5	2934.8	2803.8	2714.6	2437.1
15°	3112.4	3120.1	3149.2	3196.8	3271.5	3319.0	3285.1	3154.1	3010.5	2904.7	2528.3
17.5°	3157.0	3165.7	3197.7	3265.7	3363.6	3466.5	3503.4	3390.8	3234.6	3108.5	2630.2
20°	3182.2	3193.9	3239.5	3328.7	3443.2	3592.6	3714.9	3655.7	3484.9	3345.2	2747.6
22.5°	3223.0	3232.7	3271.5	3366.6	3503.4	3690.6	3926.4	3913.7	3763.4	3582.9	2876.6
25°	3333.6	3349.1	3368.5	3425.7	3557.7	3790.5	4102.0	4189.3	4033.1	3831.3	2995.0
27.5°	3542.2	3554.8	3553.8	3561.6	3636.3	3876.9	4254.3	4461.9	4300.9	4082.6	3109.5
30°	3779.9	3784.7	3788.6	3771.1	3787.6	3965.2	4394.0	4731.6	4570.6	4340.6	3209.4
32.5°	4069.0	4078.7	4045.7	4001.1	3987.5	4096.1	4509.4	5001.3	4889.8	4602.6	3308.3
35°	4410.5	4435.7	4368.8	4290.2	4234.9	4284.4	4664.7	5276.9	5216.7	4937.3	3439.3
37.5°	4800.5	4831.5	4769.5	4615.2	4536.6	4550.2	4867.4	5617.4	5630.0	5318.6	3634.3
40°	5119.7	5160.4	5162.4	4944.1	4824.8	4840.3	5124.5	5984.1	6128.7	5790.1	3864.3
42.5°	5330.2	5370.0	5411.7	5283.7	5158.5	5246.8	5424.3	6381.9	6689.5	6362.5	4185.4
45°	5561.1	5597.0	5620.3	5562.1	5492.2	5721.2	5786.2	6804.9	7287.1	7001.9	4536.6
47.5°	5828.9	5868.7	5891.0	5835.7	5809.5	6137.4	6176.2	7199.8	7925.5	7622.8	4924.7
50°	6185.9	6216.0	6204.4	6169.4	6163.6	6456.6	6550.7	7569.4	8452.3	8291.2	5327.3
52.5°	6630.3	6666.2	6678.8	6629.3	6607.0	6684.6	6852.5	7906.1	8931.6	8865.6	5757.1
55°	6899.0	6956.3	7148.4	7226.0	7279.3	6979.5	7177.5	8277.7	9361.4	9471.0	6218.9
57.5°	6554.6	6628.3	7058.1	7446.2	7947.8	7716.9	7638.3	8665.7	9791.2	10058.0	6771.9
60°	5714.4	5730.9	6284.9	6999.9	8008.9	8664.8	8599.8	9282.8	10256.9	10649.8	7500.5
62.5°	3964.2	3999.1	4654.0	5794.9	7254.1	9006.3	10235.5	10348.0	10924.3	11535.6	8568.7
65°	2044.2	1998.6	2595.3	3642.1	5469.0	8195.2	11560.8	12306.9	12371.9	12921.0	10072.5
67.5°	1258.3	1278.7	1558.1	2126.7	3233.6	5956.0	11422.0	14700.3	14357.8	14621.7	11468.6
70°	945.0	970.2	1162.3	1455.3	1971.4	3405.4	9185.8	15280.5	15758.8	15690.9	11893.6
71°	821.8	847.9	1047.8	1324.3	1656.1	2628.2	7739.2	14673.2	15807.3	15795.7	11733.5
72.5°	700.5	717.0	873.2	1121.5	1396.1	1842.4	5814.4	13159.7	15133.0	15520.1	11162.0
75°	550.1	562.7	632.6	855.7	1099.2	1131.2	3120.1	9865.9	12429.1	13166.5	9292.5
77.5°	448.2	457.0	492.9	635.5	847.9	801.4	1636.7	6421.7	7786.7	8528.9	5473.8
80°	356.1	365.8	387.1	430.8	635.5	571.4	781.0	3254.0	3761.4	3753.7	2184.9
82.5°	276.5	279.4	304.6	316.3	434.6	405.5	423.0	1377.7	1526.1	1576.6	788.8
85°	174.6	183.4	269.7	242.5	260.0	237.7	208.6	547.2	674.3	664.6	315.3
87.5°	53.4	56.3	91.2	102.8	115.5	103.8	76.6	161.1	196.9	213.4	78.6
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: P452528

CATALOG NUMBER: GALN-SA3C-727-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4	2166.4
2.5°	2179.0	2168.4	2130.5	2099.5	2070.4	2038.4	2011.2	2003.4	1996.7	1993.7	1992.8
5°	2199.4	2167.4	2092.7	2031.6	1983.1	1938.4	1910.3	1897.7	1885.1	1885.1	1889.0
7.5°	2228.5	2170.3	2054.9	1963.7	1902.5	1860.8	1840.5	1838.5	1841.4	1844.3	1845.3
10°	2260.5	2168.4	1999.6	1886.0	1831.7	1812.3	1813.3	1829.8	1845.3	1856.9	1858.9
12.5°	2291.6	2156.7	1934.6	1813.3	1778.4	1782.2	1809.4	1846.3	1876.3	1892.8	1893.8
15°	2326.5	2138.3	1856.0	1744.4	1732.8	1762.8	1813.3	1869.6	1915.2	1942.3	1945.2
17.5°	2355.6	2107.3	1773.5	1677.5	1692.0	1747.3	1817.2	1889.9	1945.2	1979.2	1985.0
20°	2388.6	2067.5	1688.1	1613.4	1655.1	1729.8	1809.4	1888.0	1945.2	1978.2	1986.0
22.5°	2414.8	2011.2	1606.6	1561.0	1622.2	1708.5	1783.2	1846.3	1892.8	1910.3	1921.9
25°	2425.5	1940.4	1530.0	1518.3	1596.0	1673.6	1724.0	1759.9	1774.5	1772.5	1777.4
27.5°	2419.7	1858.9	1464.0	1484.4	1563.0	1619.2	1644.5	1641.6	1615.4	1591.1	1602.8
30°	2395.4	1761.9	1408.7	1449.5	1520.3	1551.3	1547.5	1509.6	1460.1	1414.5	1417.4
32.5°	2351.7	1657.1	1357.3	1409.7	1460.1	1473.7	1447.5	1398.0	1327.2	1268.0	1259.3
35°	2314.9	1557.2	1311.7	1364.1	1400.0	1393.2	1368.0	1303.9	1239.9	1187.5	1178.8
37.5°	2309.1	1471.8	1268.0	1312.7	1333.0	1323.3	1292.3	1238.0	1214.7	1174.9	1170.0
40°	2340.1	1411.6	1223.4	1258.3	1268.0	1260.3	1226.3	1195.3	1216.6	1206.9	1206.9
42.5°	2424.5	1379.6	1183.6	1204.0	1211.8	1217.6	1193.3	1167.1	1193.3	1148.7	1134.2
45°	2558.4	1380.6	1147.7	1150.6	1173.9	1194.3	1177.8	1139.0	1125.4	1036.2	1018.7
47.5°	2755.3	1413.6	1118.6	1100.2	1141.9	1175.9	1152.6	1096.3	1036.2	977.0	966.3
50°	2985.3	1472.7	1092.4	1047.8	1099.2	1152.6	1135.1	1069.1	1007.1	971.2	964.4
52.5°	3240.4	1547.5	1060.4	989.6	1046.8	1141.9	1139.0	1065.3	979.9	955.6	949.8
55°	3555.7	1621.2	1020.6	921.7	1000.3	1133.2	1128.3	1033.3	974.1	956.6	954.7
57.5°	3922.5	1727.9	963.4	852.8	946.9	1097.3	1086.6	1013.8	954.7	942.1	941.1
60°	4513.3	1893.8	881.9	789.7	892.6	1034.2	1047.8	980.9	923.6	920.7	919.7
62.5°	5290.4	2126.7	797.5	724.7	829.5	952.7	991.5	936.2	890.6	905.2	907.1
65°	6363.5	2322.6	710.2	669.4	759.7	874.1	938.2	894.5	853.8	881.9	881.9
67.5°	7063.0	2326.5	630.6	612.2	688.8	808.2	881.9	845.0	806.2	853.8	855.7
70°	6917.5	2038.4	564.7	552.0	620.0	737.3	819.8	790.7	746.1	788.8	773.2
71°	6682.7	1878.3	538.5	528.8	592.8	703.4	790.7	766.5	721.8	750.0	741.2
72.5°	6308.2	1630.9	495.8	497.7	552.0	660.7	750.0	724.7	680.1	695.6	692.7
75°	5332.2	1424.2	424.0	432.7	474.4	587.9	668.5	649.1	603.5	603.5	600.5
77.5°	3333.6	995.4	352.2	357.0	402.6	503.5	574.4	557.9	514.2	499.6	495.8
80°	1243.8	514.2	275.5	281.4	309.5	396.8	475.4	459.9	415.2	398.7	383.2
82.5°	470.5	258.1	202.8	197.9	228.0	302.7	372.6	354.1	319.2	279.4	267.8
85°	177.5	128.1	124.2	120.3	133.9	179.5	230.9	227.0	190.2	162.0	159.1
87.5°	46.6	41.7	48.5	35.9	37.8	34.0	34.9	14.6	6.8	2.9	1.9
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)