

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: P452530

Luminaire Tested: **GALN-SA3C-727-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17888 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

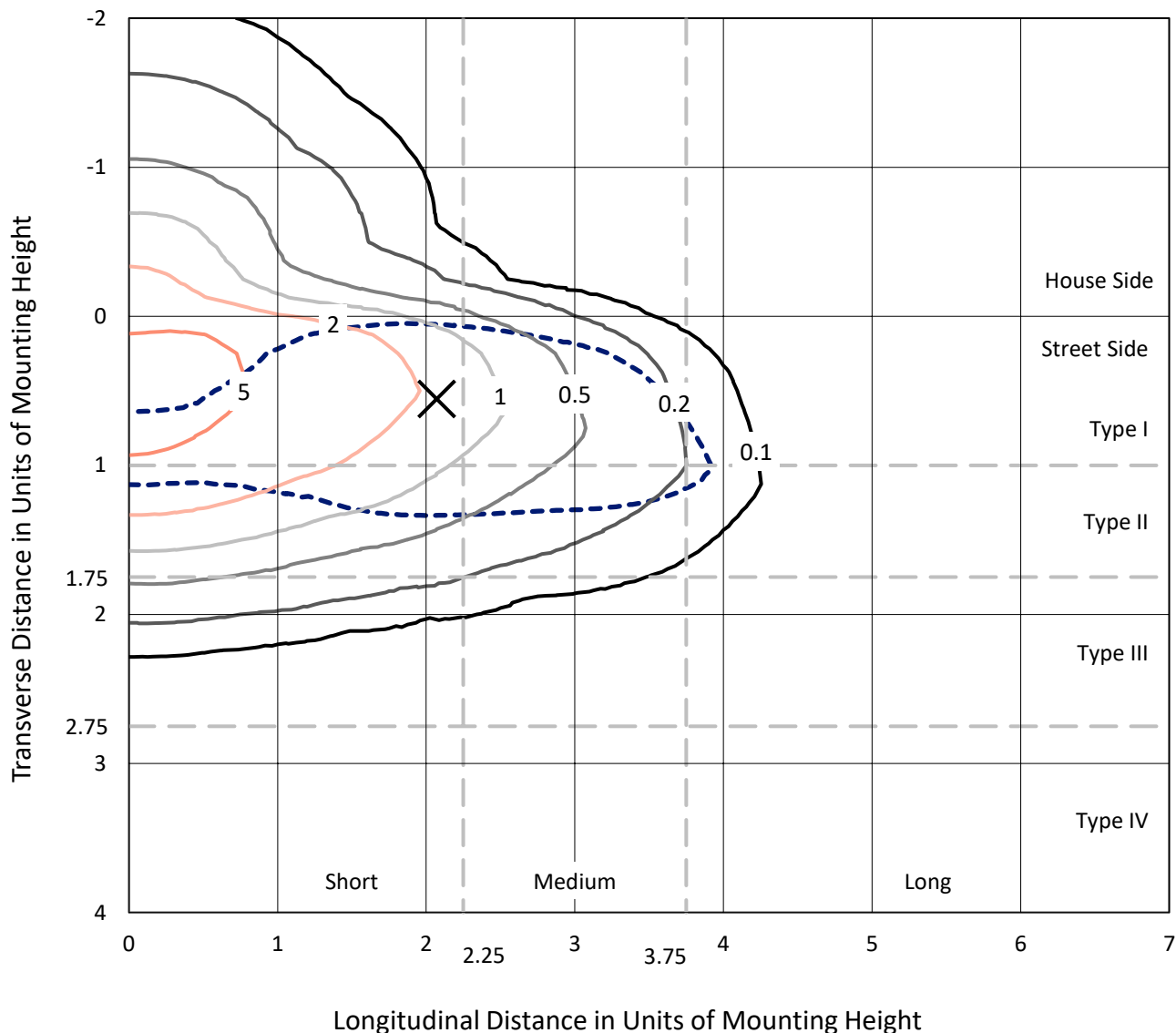
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452530  
 CATALOG NUMBER: GALN-SA3C-727-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

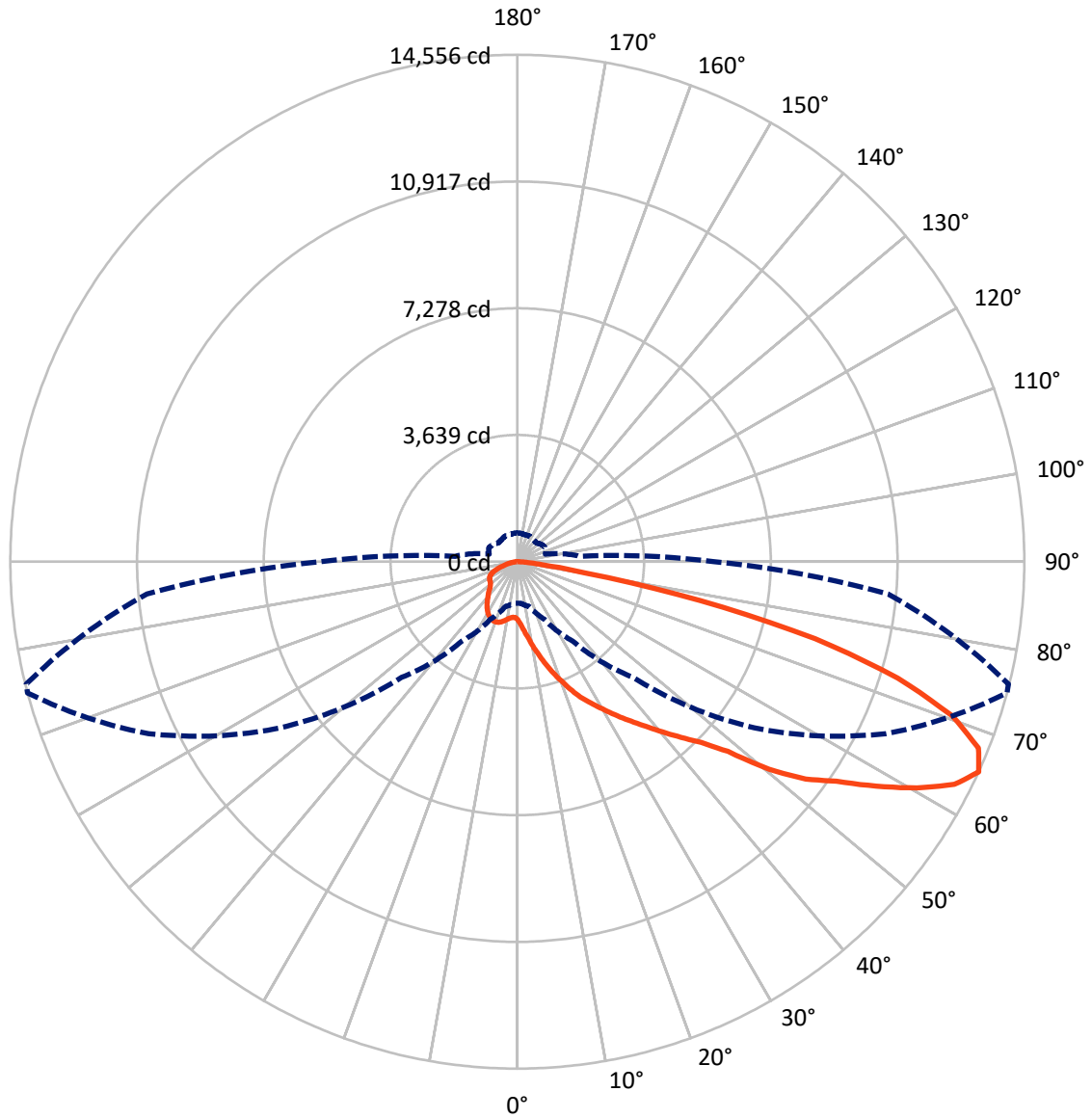
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P452530  
CATALOG NUMBER: GALN-SA3C-727-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P452530

CATALOG NUMBER: GALN-SA3C-727-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3007.2	0.0	3007.2
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	14880.8	0.0	14880.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	17888.0	0.0	17888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.9	1.1
10°-20°	790.9	4.4
20°-30°	1527.8	8.5
30°-40°	2481.6	13.9
40°-50°	3413.7	19.1
50°-60°	4030.4	22.5
60°-70°	3531.3	19.7
70°-80°	1685.9	9.4
80°-90°	224.3	1.3
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°	17888.0	100.0
0°-180°	17888.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452530

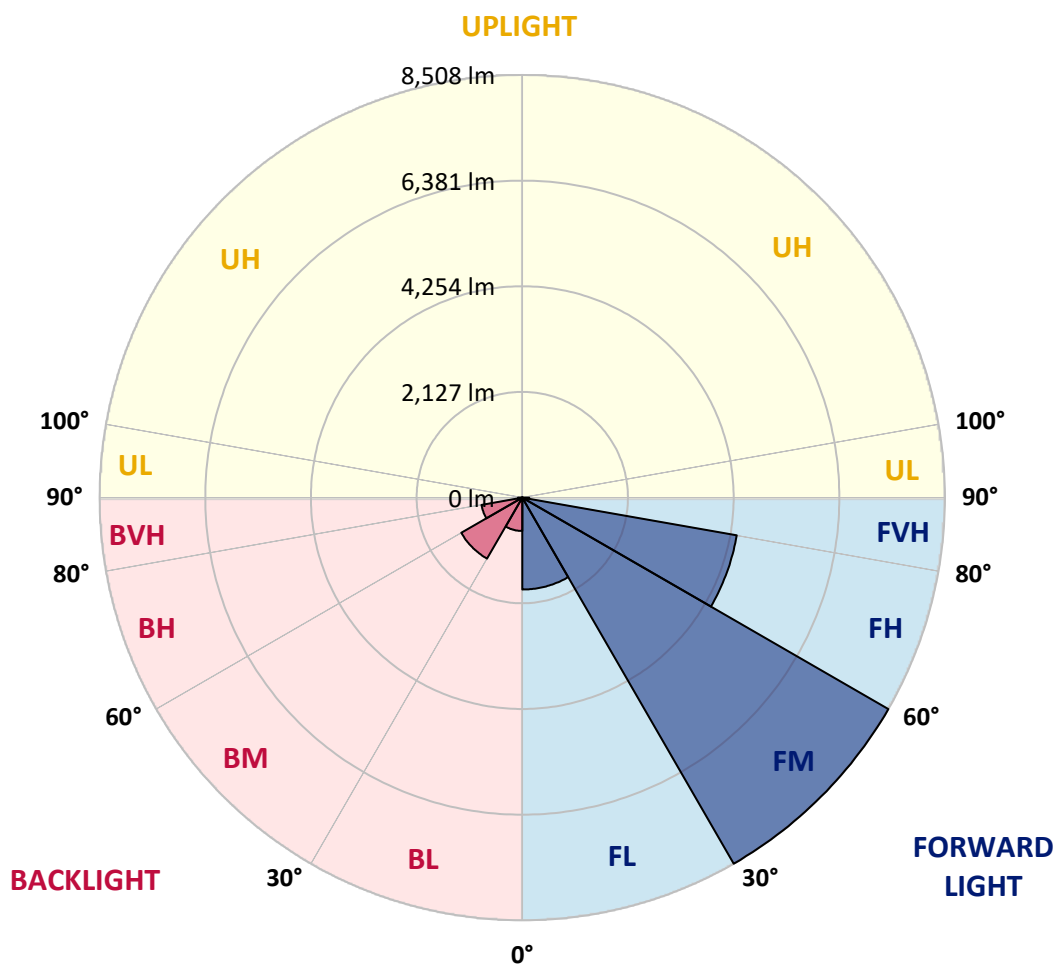
CATALOG NUMBER: GALN-SA3C-727-U-T2R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1849.3	10.3			
FM	(30°-60°)	8507.9	47.6			
FH	(60°-80°)	4383.4	24.5			G2/5000
FVH	(80°-90°)	140.2	0.8			G2/225
BL	(0°-30°)	671.3	3.8	B2/1000		
BM	(30°-60°)	1417.9	7.9	B2/2500		
BH	(60°-80°)	833.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	84.1	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 Short





REPORT NUMBER: P452530  
 CATALOG NUMBER: GALN-SA3C-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	2208.3	2193.7	2178.2	2135.5	2089.9	2038.5	1964.7	1893.9	1799.8	1796.9	1727.0
5°	2820.5	2810.8	2741.9	2702.1	2596.4	2455.7	2336.3	2151.0	1979.3	1958.9	1823.1
7.5°	3383.2	3345.4	3319.2	3247.4	3142.6	2962.1	2731.2	2480.9	2193.7	2166.5	1941.5
10°	3807.2	3803.3	3789.8	3727.7	3649.1	3469.6	3213.4	2854.4	2465.4	2412.0	2085.0
12.5°	4124.5	4127.4	4125.5	4124.5	4068.2	3915.9	3638.4	3260.0	2740.0	2702.1	2251.0
15°	4333.1	4362.2	4373.8	4422.4	4427.2	4325.3	4086.7	3652.0	3049.5	2993.2	2429.5
17.5°	4470.9	4485.4	4539.8	4622.2	4689.2	4670.7	4458.3	4014.9	3365.8	3271.6	2614.8
20°	4602.8	4628.0	4669.8	4782.3	4900.7	4955.0	4805.6	4386.5	3679.2	3619.0	2819.5
22.5°	4877.4	4913.3	4927.8	4985.1	5086.0	5182.1	5114.1	4742.5	4022.6	3941.1	3036.9
25°	5342.1	5380.0	5339.2	5325.6	5358.6	5406.2	5391.6	5078.2	4346.7	4230.2	3242.5
27.5°	5947.6	5952.4	5872.9	5797.2	5715.7	5691.4	5646.8	5376.1	4628.0	4531.0	3449.2
30°	6597.6	6574.3	6442.4	6305.6	6167.8	6032.0	5903.9	5663.3	4941.4	4829.9	3652.0
32.5°	7201.1	7188.5	7042.0	6829.5	6596.7	6468.6	6209.5	5953.4	5277.1	5169.4	3860.6
35°	7653.3	7671.7	7510.6	7278.7	7024.5	6911.0	6584.0	6258.0	5624.5	5507.1	4087.6
37.5°	7974.4	7964.7	7822.1	7621.2	7398.1	7299.1	7021.6	6590.8	5998.0	5885.5	4336.0
40°	8088.9	8083.1	7977.3	7830.8	7689.2	7654.2	7479.6	6949.8	6425.9	6293.9	4634.8
42.5°	8016.1	8028.7	7958.9	7919.1	7892.9	7918.1	7934.6	7420.4	6892.6	6771.3	4958.9
45°	7793.0	7786.2	7776.5	7841.5	7989.0	8154.9	8384.8	7864.8	7400.0	7303.0	5393.6
47.5°	7394.2	7442.7	7467.0	7646.5	7968.6	8361.5	8902.9	8460.5	8136.4	8052.0	6056.2
50°	6836.3	6875.1	7018.7	7337.9	7818.2	8439.1	9409.4	9434.6	9364.8	9206.6	6776.2
52.5°	5965.0	6025.2	6321.1	6906.2	7509.7	8407.1	9716.0	10270.0	10362.2	10243.8	7485.4
55°	4989.9	5074.4	5386.8	6154.2	7084.7	8232.5	9927.5	10754.1	11121.9	11012.2	8168.5
57.5°	4035.2	4124.5	4445.6	5188.8	6343.4	7846.3	10066.2	11293.6	12156.1	12013.5	9018.4
60°	3024.2	3117.4	3392.9	4158.4	5287.8	7091.5	9972.1	11761.2	13189.4	13128.3	9869.3
62.5°	1951.2	2054.0	2293.6	2927.2	4064.3	6060.1	9468.6	12019.3	14084.0	14010.3	10490.2
65°	1188.5	1200.2	1332.1	1817.3	2781.7	4692.1	8316.9	11676.8	14555.5	14533.2	10679.4
67.5°	768.4	786.9	847.0	1088.6	1667.8	3259.0	6650.0	10546.5	14280.0	14272.2	10288.4
70°	649.1	654.9	682.1	734.5	969.3	1976.4	4669.8	8744.8	13233.1	13233.1	9348.3
72.5°	580.2	588.0	597.7	614.2	691.8	1119.7	2786.5	6807.2	11425.5	11501.2	7956.9
75°	526.8	524.9	530.7	533.6	589.9	731.6	1440.8	5034.6	8838.9	8687.5	5762.3
77.5°	451.2	454.1	451.2	463.8	521.0	556.9	731.6	3378.4	5356.7	5160.7	2892.3
80°	370.6	375.5	380.3	388.1	445.3	423.0	439.5	1539.8	1981.2	1939.5	893.6
82.5°	278.5	285.3	293.0	311.4	350.3	279.4	277.5	657.8	715.1	654.9	328.9
85°	112.5	132.9	200.8	219.3	220.2	153.3	170.8	274.6	292.0	285.3	129.0
87.5°	26.2	31.0	65.0	98.0	90.2	57.2	63.1	89.3	101.9	94.1	43.7
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: P452530  
 CATALOG NUMBER: GALN-SA3C-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1695.0	1661.1	1602.8	1558.2	1526.2	1498.1	1480.6	1469.9	1466.0	1465.1	1466.0
5°	1752.3	1692.1	1599.9	1541.7	1509.7	1491.3	1480.6	1479.6	1480.6	1481.6	1478.6
7.5°	1830.8	1744.5	1624.2	1569.8	1545.6	1532.0	1527.2	1525.2	1526.2	1525.2	1525.2
10°	1935.6	1817.3	1671.7	1615.4	1595.1	1579.6	1571.8	1566.9	1563.1	1559.2	1557.2
12.5°	2051.1	1897.8	1723.1	1668.8	1639.7	1615.4	1598.0	1585.4	1576.6	1567.9	1566.0
15°	2180.1	1983.2	1780.4	1704.7	1663.0	1627.1	1597.0	1576.6	1561.1	1548.5	1547.5
17.5°	2303.3	2063.7	1819.2	1721.2	1660.1	1609.6	1569.8	1541.7	1522.3	1505.8	1503.9
20°	2435.3	2140.3	1836.7	1710.5	1631.0	1569.8	1517.5	1483.5	1461.2	1442.7	1439.8
22.5°	2568.2	2205.4	1834.7	1676.6	1580.5	1508.7	1453.4	1417.5	1391.3	1372.9	1366.1
25°	2695.3	2257.7	1810.5	1622.2	1510.7	1436.0	1379.7	1346.7	1323.4	1301.1	1301.1
27.5°	2809.8	2288.8	1764.9	1556.3	1438.9	1360.3	1315.6	1285.6	1264.2	1249.7	1240.9
30°	2922.4	2303.3	1702.8	1472.8	1363.2	1296.2	1260.3	1242.9	1223.5	1207.0	1205.0
32.5°	3023.3	2300.4	1625.2	1391.3	1291.4	1243.8	1229.3	1215.7	1195.3	1172.0	1166.2
35°	3121.3	2281.0	1533.0	1302.1	1231.2	1212.8	1216.7	1197.3	1160.4	1131.3	1126.4
37.5°	3228.0	2246.1	1432.1	1229.3	1180.8	1198.2	1207.9	1165.3	1105.1	1059.5	1048.8
40°	3351.2	2206.3	1327.3	1156.5	1141.0	1184.7	1184.7	1106.1	1023.6	995.5	987.7
42.5°	3495.8	2173.3	1240.0	1095.4	1108.0	1151.7	1146.8	1027.5	993.5	979.0	975.1
45°	3724.8	2161.7	1149.7	1042.0	1080.8	1112.9	1073.1	1000.3	980.9	969.3	965.4
47.5°	4086.7	2175.3	1070.2	1002.3	1049.8	1074.1	990.6	981.9	968.3	951.8	949.9
50°	4422.4	2162.7	1013.9	979.9	1022.6	1027.5	956.7	959.6	951.8	933.4	929.5
52.5°	4696.9	2122.9	978.0	968.3	999.3	946.0	924.6	935.3	932.4	909.1	905.2
55°	4998.7	2098.6	960.5	968.3	983.8	875.2	894.6	910.1	906.2	889.7	888.7
57.5°	5364.5	2103.5	947.9	971.2	968.3	839.3	864.5	882.9	881.9	877.1	877.1
60°	5739.0	2105.4	928.5	970.2	949.9	811.1	833.4	859.6	861.6	864.5	864.5
62.5°	5863.2	2021.0	890.7	952.8	909.1	784.0	804.3	840.2	838.3	846.0	847.0
65°	5631.3	1787.2	834.4	913.0	856.7	764.5	782.0	815.0	804.3	824.7	828.6
67.5°	5125.8	1478.6	747.1	841.2	798.5	744.2	767.5	780.1	760.7	800.4	801.4
70°	4430.1	1154.6	636.5	739.3	732.5	722.8	755.8	736.4	709.2	757.8	748.1
72.5°	3704.4	881.9	508.4	604.5	644.2	690.8	735.4	680.1	642.3	656.9	639.4
75°	2782.6	652.0	408.5	473.5	536.5	645.2	717.0	612.2	554.0	540.4	536.5
77.5°	1418.5	425.9	305.6	354.1	402.6	583.1	691.8	532.7	458.9	437.6	427.9
80°	506.5	264.9	215.4	244.5	271.7	501.6	604.5	440.5	356.1	352.2	356.1
82.5°	234.8	170.8	144.6	160.1	161.1	334.7	460.9	328.9	270.7	411.4	347.3
85°	100.9	85.4	81.5	79.6	73.7	149.4	259.1	176.6	275.5	123.2	113.5
87.5°	30.1	34.0	30.1	22.3	16.5	16.5	26.2	9.7	6.8	4.9	4.9
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)