

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: P453023

Luminaire Tested: **GALN-SA4A-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453023  
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-SA4A-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16791 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

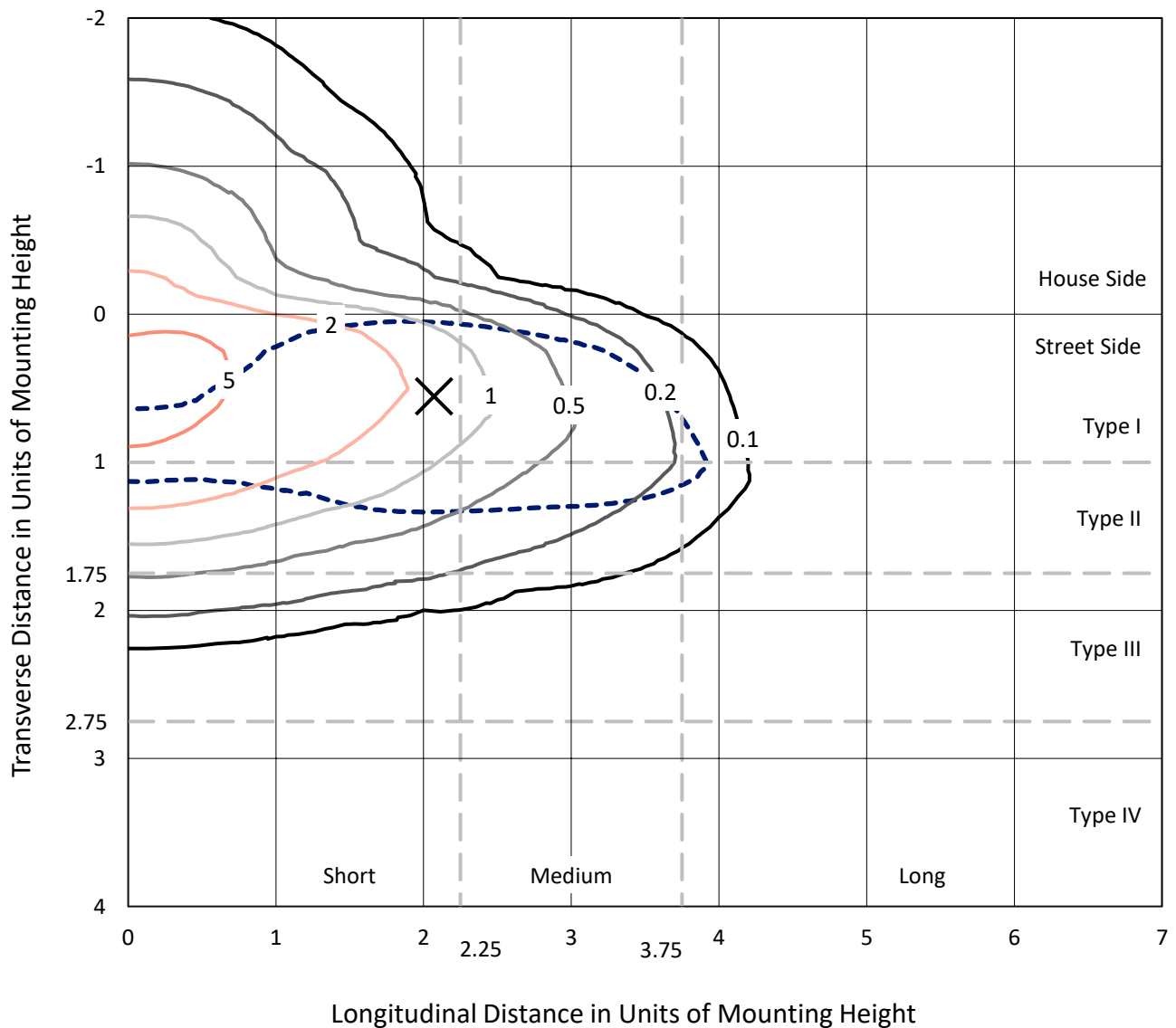
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453023  
 CATALOG NUMBER: GALN-SA4A-730-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

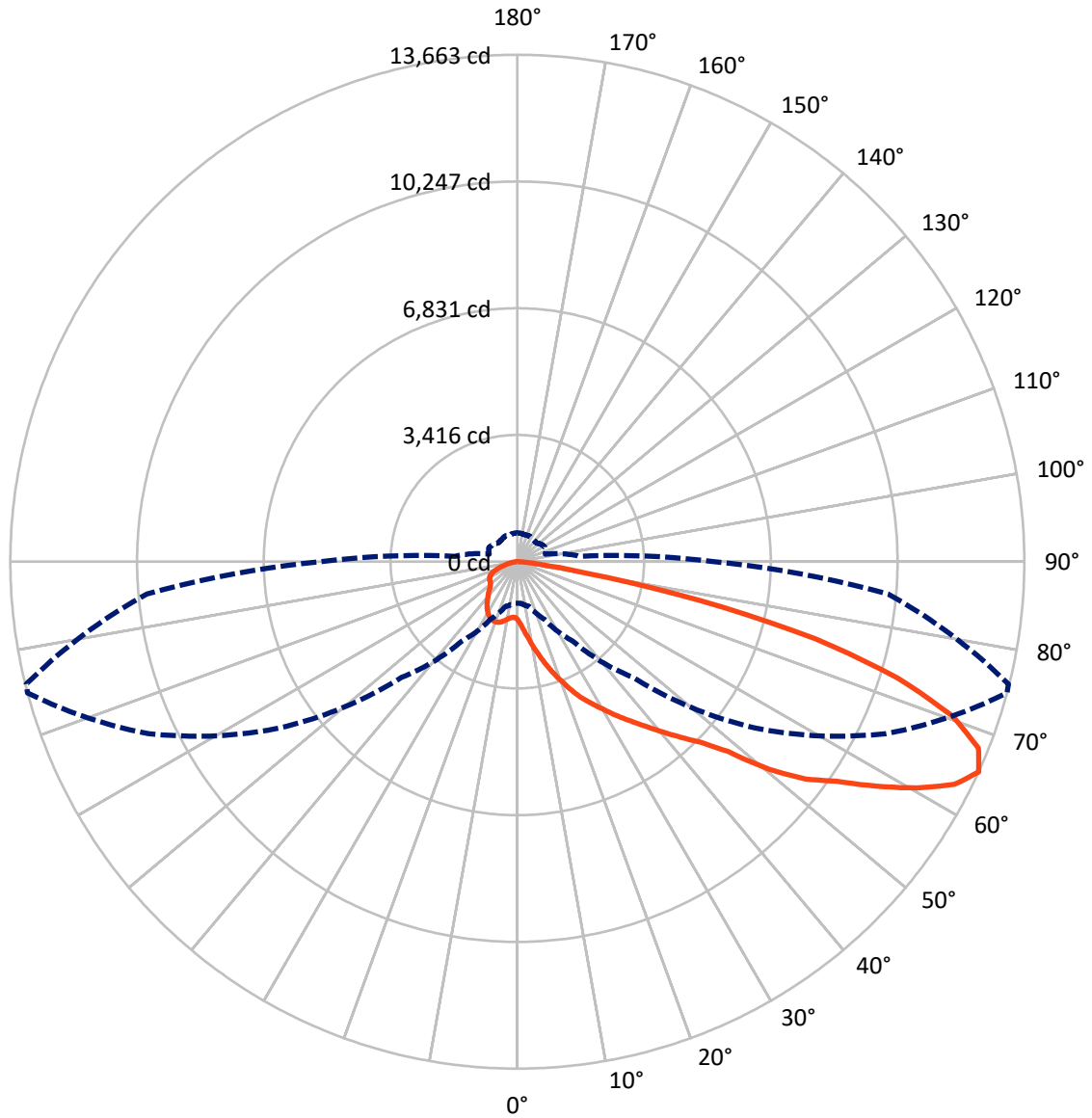
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P453023  
CATALOG NUMBER: GALN-SA4A-730-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P453023

CATALOG NUMBER: GALN-SA4A-730-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2822.8	0.0	2822.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	13968.2	0.0	13968.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	16791.0	0.0	16791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.5	1.1
10°-20°	742.4	4.4
20°-30°	1434.1	8.5
30°-40°	2329.5	13.9
40°-50°	3204.4	19.1
50°-60°	3783.3	22.5
60°-70°	3314.8	19.7
70°-80°	1582.5	9.4
80°-90°	210.6	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°	16791.0	100.0
0°-180°	16791.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453023

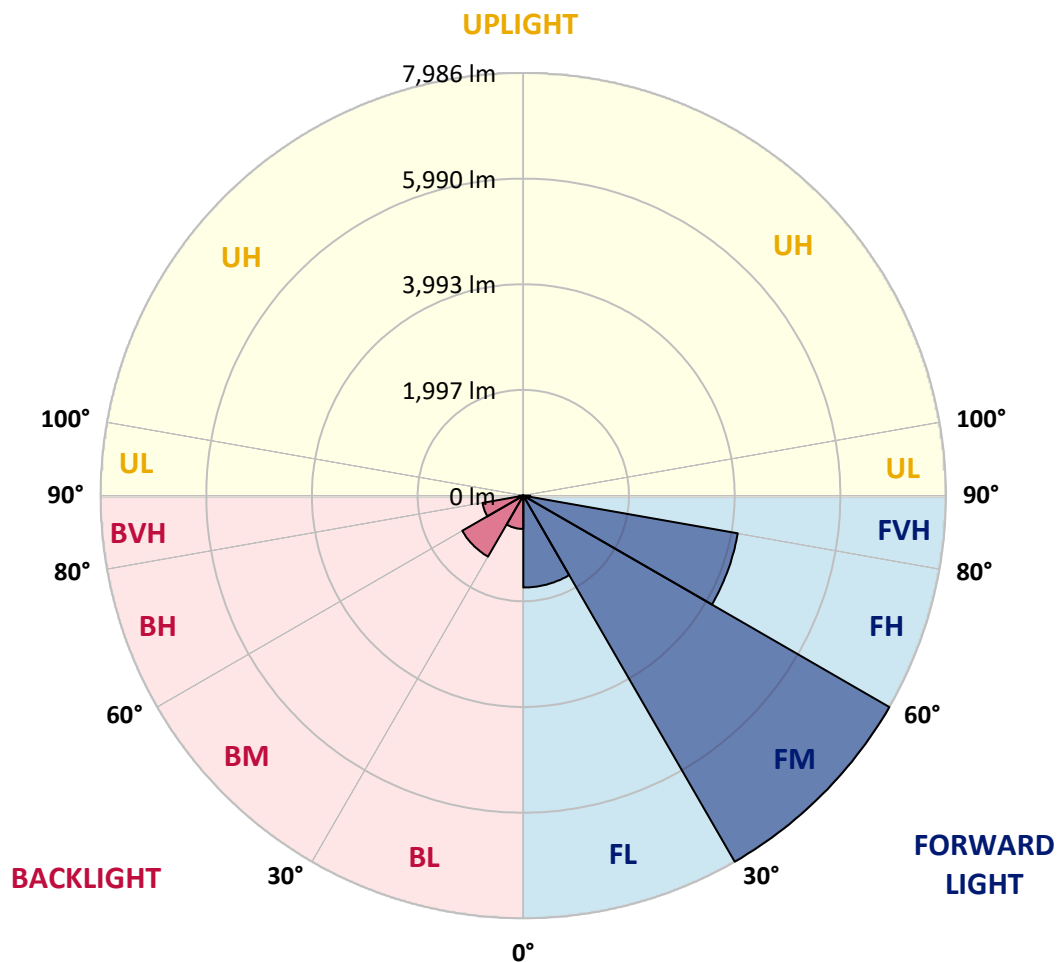
CATALOG NUMBER: GALN-SA4A-730-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.9	10.3			
FM (30°-60°)	7986.2	47.6			
FH (60°-80°)	4114.5	24.5			G2/5000
FVH (80°-90°)	131.6	0.8			G2/225
BL (0°-30°)	630.2	3.8	B2/1000		
BM (30°-60°)	1330.9	7.9	B2/2500		
BH (60°-80°)	782.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	79.0	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: P453023

CATALOG NUMBER: GALN-SA4A-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1
2.5°	2072.8	2059.2	2044.6	2004.5	1961.7	1913.5	1844.2	1777.8	1689.4	1686.7	1621.1
5°	2647.5	2638.4	2573.7	2536.4	2437.1	2305.1	2193.1	2019.1	1857.9	1838.8	1711.3
7.5°	3175.7	3140.2	3115.6	3048.2	2949.9	2780.5	2563.7	2328.8	2059.2	2033.7	1822.4
10°	3573.7	3570.1	3557.3	3499.1	3425.3	3256.8	3016.4	2679.4	2314.2	2264.1	1957.2
12.5°	3871.6	3874.3	3872.5	3871.6	3818.7	3675.7	3415.3	3060.1	2571.9	2536.4	2112.9
15°	4067.4	4094.7	4105.6	4151.1	4155.7	4060.1	3836.0	3428.0	2862.5	2809.6	2280.5
17.5°	4196.7	4210.3	4261.3	4338.8	4401.6	4384.3	4184.8	3768.6	3159.4	3071.0	2454.4
20°	4320.5	4344.2	4383.4	4489.0	4600.1	4651.1	4510.9	4117.5	3453.5	3397.1	2646.6
22.5°	4578.3	4612.0	4625.6	4679.4	4774.1	4864.3	4800.5	4451.7	3775.9	3699.4	2850.6
25°	5014.5	5050.0	5011.8	4999.0	5030.0	5074.6	5061.0	4766.8	4080.1	3970.8	3043.7
27.5°	5582.8	5587.4	5512.7	5441.7	5365.2	5342.4	5300.5	5046.4	4344.2	4253.2	3237.7
30°	6193.0	6171.2	6047.3	5918.9	5789.6	5662.1	5541.8	5316.0	4638.4	4533.7	3428.0
32.5°	6759.5	6747.7	6610.1	6410.7	6192.1	6071.9	5828.7	5588.3	4953.5	4852.4	3623.8
35°	7183.9	7201.2	7050.0	6832.4	6593.8	6487.2	6180.3	5874.3	5279.6	5169.4	3836.9
37.5°	7485.4	7476.3	7342.4	7153.9	6944.4	6851.5	6591.0	6186.7	5630.2	5524.5	4070.1
40°	7592.8	7587.4	7488.1	7350.6	7217.6	7184.8	7020.9	6523.6	6031.8	5908.0	4350.6
42.5°	7524.5	7536.4	7470.8	7433.5	7408.9	7432.5	7448.0	6965.3	6469.9	6356.0	4654.8
45°	7315.1	7308.7	7299.6	7360.6	7499.0	7654.8	7870.6	7382.5	6946.2	6855.1	5062.8
47.5°	6940.7	6986.3	7009.0	7177.5	7479.9	7848.7	8356.9	7941.6	7637.5	7558.2	5684.8
50°	6417.1	6453.5	6588.3	6887.9	7338.7	7921.6	8832.3	8856.0	8790.5	8642.0	6360.6
52.5°	5599.2	5655.7	5933.5	6482.6	7049.1	7891.6	9120.1	9640.2	9726.7	9615.6	7026.4
55°	4683.9	4763.2	5056.4	5776.8	6650.2	7727.6	9318.7	10094.6	10439.8	10336.9	7667.5
57.5°	3787.8	3871.6	4173.0	4870.6	5954.4	7365.1	9448.9	10601.0	11410.6	11276.8	8465.3
60°	2838.8	2926.2	3184.9	3903.4	4963.5	6656.6	9360.6	11040.0	12380.6	12323.2	9264.0
62.5°	1831.5	1928.0	2153.0	2747.7	3815.1	5688.5	8887.9	11282.2	13220.3	13151.1	9846.9
65°	1115.7	1126.6	1250.4	1705.8	2611.1	4404.3	7806.9	10960.7	13662.9	13642.0	10024.5
67.5°	721.3	738.6	795.1	1021.8	1565.6	3059.2	6242.2	9899.7	13404.3	13397.0	9657.5
70°	609.3	614.7	640.2	689.4	909.8	1855.2	4383.4	8208.5	12421.6	12421.6	8775.0
72.5°	544.6	551.9	561.0	576.5	649.4	1051.0	2615.6	6389.7	10724.9	10795.9	7469.0
75°	494.5	492.7	498.2	500.9	553.7	686.7	1352.4	4725.8	8296.8	8154.8	5408.9
77.5°	423.5	426.2	423.5	435.3	489.1	522.8	686.7	3171.2	5028.2	4844.2	2714.9
80°	347.9	352.5	357.0	364.3	418.0	397.1	412.6	1445.3	1859.7	1820.6	838.8
82.5°	261.4	267.8	275.0	292.3	328.8	262.3	260.5	617.5	671.2	614.7	308.7
85°	105.6	124.8	188.5	205.8	206.7	143.9	160.3	257.7	274.1	267.8	121.1
87.5°	24.6	29.1	61.0	92.0	84.7	53.7	59.2	83.8	95.6	88.3	41.0
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: P453023  
 CATALOG NUMBER: GALN-SA4A-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1	1560.1
2.5°	1591.1	1559.2	1504.5	1462.6	1432.6	1406.2	1389.8	1379.8	1376.1	1375.2	1376.1
5°	1644.8	1588.3	1501.8	1447.2	1417.1	1399.8	1389.8	1388.9	1389.8	1390.7	1388.0
7.5°	1718.6	1637.5	1524.6	1473.6	1450.8	1438.1	1433.5	1431.7	1432.6	1431.7	1431.7
10°	1816.9	1705.8	1569.2	1516.4	1497.3	1482.7	1475.4	1470.8	1467.2	1463.6	1461.7
12.5°	1925.3	1781.4	1617.5	1566.5	1539.1	1516.4	1500.0	1488.1	1480.0	1471.8	1469.9
15°	2046.4	1861.6	1671.2	1600.2	1561.0	1527.3	1499.1	1480.0	1465.4	1453.5	1452.6
17.5°	2162.1	1937.1	1707.6	1615.7	1558.3	1510.9	1473.6	1447.2	1428.9	1413.5	1411.6
20°	2286.0	2009.1	1724.0	1605.6	1531.0	1473.6	1424.4	1392.5	1371.6	1354.3	1351.5
22.5°	2410.7	2070.1	1722.2	1573.8	1483.6	1416.2	1364.3	1330.6	1306.0	1288.7	1282.3
25°	2530.0	2119.3	1699.4	1522.8	1418.0	1347.9	1295.1	1264.1	1242.2	1221.3	1221.3
27.5°	2637.5	2148.4	1656.6	1460.8	1350.6	1276.9	1235.0	1206.7	1186.7	1173.0	1164.8
30°	2743.1	2162.1	1598.3	1382.5	1279.6	1216.7	1183.1	1166.7	1148.4	1133.0	1131.1
32.5°	2837.9	2159.4	1525.5	1306.0	1212.2	1167.6	1153.9	1141.2	1122.0	1100.2	1094.7
35°	2929.8	2141.1	1439.0	1222.2	1155.7	1138.4	1142.1	1123.9	1089.2	1061.9	1057.4
37.5°	3030.0	2108.4	1344.3	1153.9	1108.4	1124.8	1133.9	1093.8	1037.3	994.5	984.5
40°	3145.7	2071.0	1245.9	1085.6	1071.0	1112.0	1112.0	1038.2	960.8	934.4	927.1
42.5°	3281.4	2040.1	1163.9	1028.2	1040.1	1081.0	1076.5	964.5	932.6	918.9	915.3
45°	3496.3	2029.1	1079.2	978.1	1014.6	1044.6	1007.3	939.0	920.8	909.8	906.2
47.5°	3836.0	2041.9	1004.5	940.8	985.4	1008.2	929.9	921.7	908.9	893.4	891.6
50°	4151.1	2030.0	951.7	919.8	959.9	964.5	898.0	900.7	893.4	876.1	872.5
52.5°	4408.9	1992.7	918.0	908.9	938.1	888.0	867.9	878.0	875.2	853.4	849.7
55°	4692.1	1969.9	901.6	908.9	923.5	821.5	839.7	854.3	850.6	835.1	834.2
57.5°	5035.5	1974.5	889.8	911.6	908.9	787.8	811.5	828.8	827.9	823.3	823.3
60°	5387.0	1976.3	871.6	910.7	891.6	761.4	782.3	806.9	808.7	811.5	811.5
62.5°	5503.6	1897.1	836.1	894.3	853.4	735.9	755.0	788.7	786.9	794.2	795.1
65°	5285.9	1677.6	783.2	857.0	804.2	717.7	734.1	765.0	755.0	774.1	777.8
67.5°	4811.4	1388.0	701.3	789.6	749.5	698.5	720.4	732.2	714.0	751.4	752.3
70°	4158.4	1083.8	597.4	694.0	687.6	678.5	709.5	691.3	665.8	711.3	702.2
72.5°	3477.2	827.9	477.2	567.4	604.7	648.4	690.3	638.4	602.9	616.6	600.2
75°	2612.0	612.0	383.4	444.4	503.6	605.6	673.0	574.7	520.0	507.3	503.6
77.5°	1331.5	399.8	286.9	332.4	378.0	547.4	649.4	500.0	430.8	410.7	401.6
80°	475.4	248.6	202.2	229.5	255.0	470.9	567.4	413.5	334.2	330.6	334.2
82.5°	220.4	160.3	135.7	150.3	151.2	314.2	432.6	308.7	254.1	386.2	326.0
85°	94.7	80.1	76.5	74.7	69.2	140.3	243.2	165.8	258.6	115.7	106.6
87.5°	28.2	31.9	28.2	20.9	15.5	15.5	24.6	9.1	6.4	4.6	4.6
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)