

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: P452559

Luminaire Tested: **GALN-SA3C-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452559  
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-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 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: 19479 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

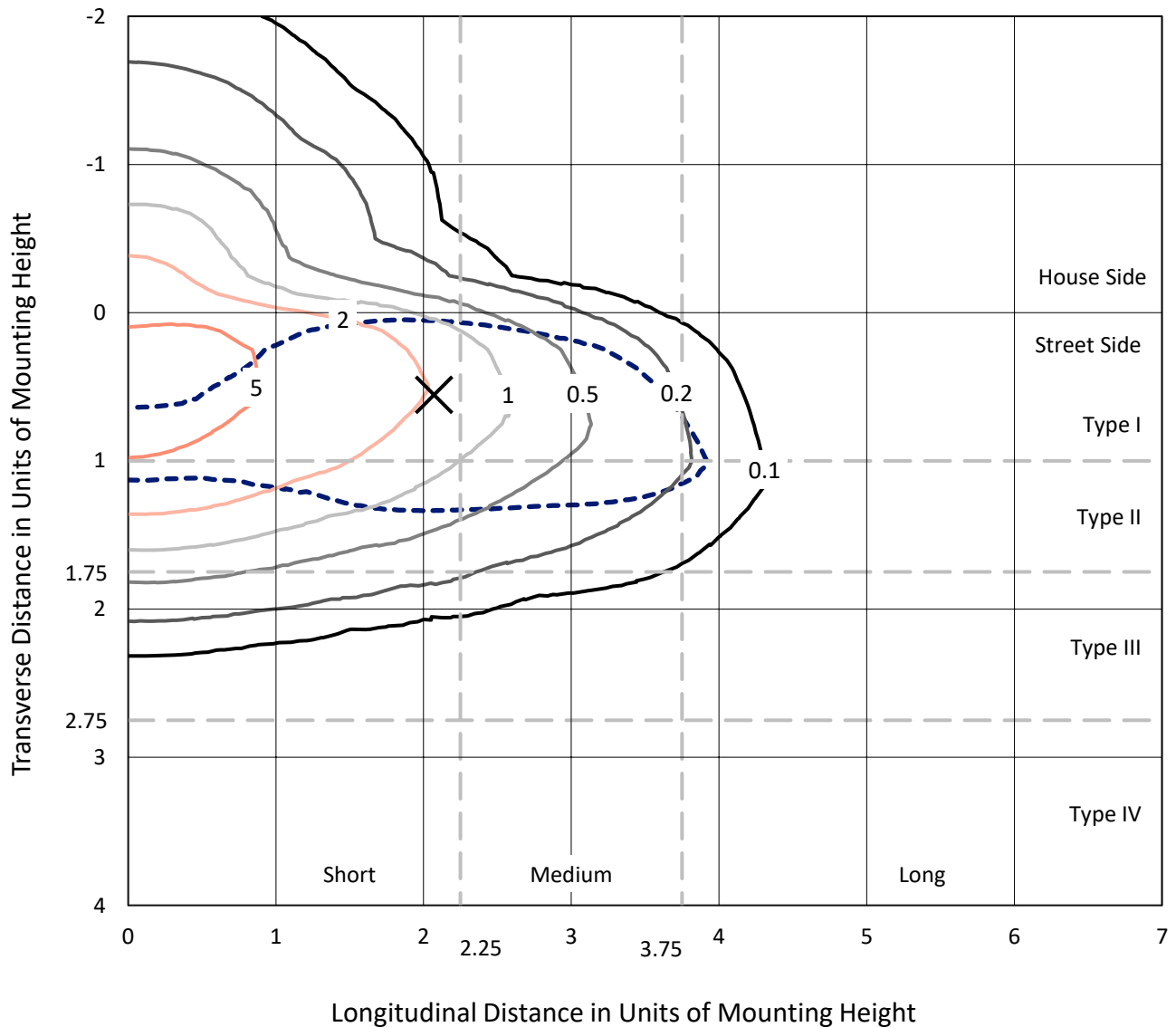
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

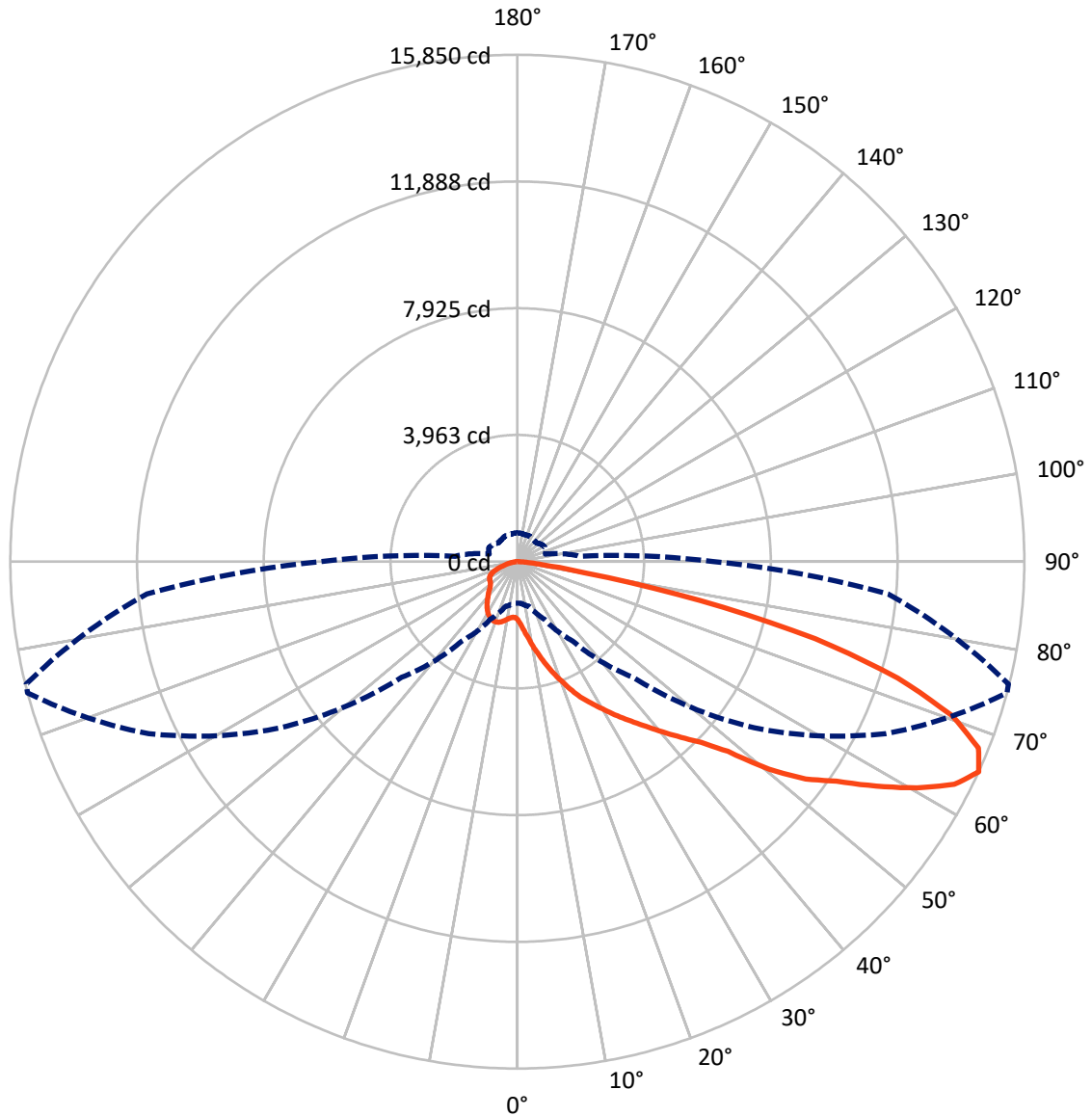
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3274.7	0.0	3274.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	16204.3	0.0	16204.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	19479.0	0.0	19479.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.9	1.1
10°-20°	861.3	4.4
20°-30°	1663.7	8.5
30°-40°	2702.4	13.9
40°-50°	3717.3	19.1
50°-60°	4388.9	22.5
60°-70°	3845.4	19.7
70°-80°	1835.8	9.4
80°-90°	244.3	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°	19479.0	100.0
0°-180°	19479.0	100.0



REPORT NUMBER: P452559

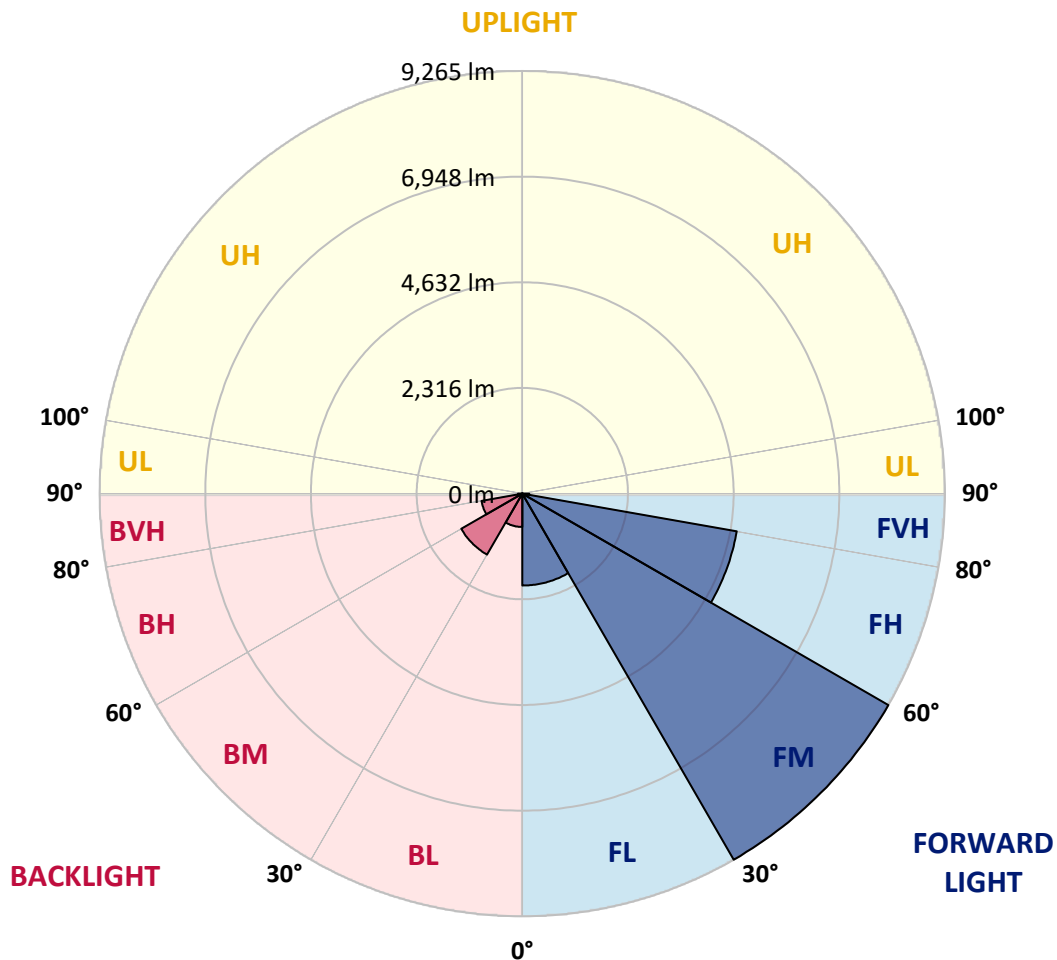
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2013.8	10.3			
FM	(30°-60°)	9264.6	47.6			
FH	(60°-80°)	4773.2	24.5			G2/5000
FVH	(80°-90°)	152.7	0.8			G2/225
BL	(0°-30°)	731.1	3.8	B2/1000		
BM	(30°-60°)	1544.0	7.9	B2/2500		
BH	(60°-80°)	908.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	91.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	2404.7	2388.8	2371.9	2325.4	2275.8	2219.8	2139.5	2062.4	1959.9	1956.7	1880.6
5°	3071.3	3060.8	2985.8	2942.5	2827.3	2674.1	2544.1	2342.3	2155.3	2133.1	1985.2
7.5°	3684.1	3642.9	3614.4	3536.2	3422.1	3225.6	2974.1	2701.6	2388.8	2359.2	2114.1
10°	4145.8	4141.6	4126.8	4059.2	3973.6	3778.2	3499.2	3108.3	2684.7	2626.5	2270.5
12.5°	4491.3	4494.5	4492.4	4491.3	4430.1	4264.2	3962.0	3550.0	2983.7	2942.5	2451.2
15°	4718.5	4750.2	4762.9	4815.7	4821.0	4710.0	4450.1	3976.8	3320.7	3259.4	2645.6
17.5°	4868.5	4884.4	4943.5	5033.3	5106.2	5086.2	4854.8	4371.9	3665.1	3562.6	2847.4
20°	5012.2	5039.7	5085.1	5207.7	5336.6	5395.7	5233.0	4776.6	4006.4	3940.9	3070.3
22.5°	5311.2	5350.3	5366.1	5428.5	5538.4	5643.0	5569.0	5164.3	4380.4	4291.6	3307.0
25°	5817.3	5858.5	5814.1	5799.3	5835.2	5887.0	5871.2	5529.9	4733.3	4606.5	3530.9
27.5°	6476.6	6481.8	6395.2	6312.8	6224.0	6197.6	6149.0	5854.3	5039.7	4934.0	3756.0
30°	7184.4	7159.1	7015.4	6866.4	6716.4	6568.5	6429.0	6167.0	5380.9	5259.4	3976.8
32.5°	7841.6	7827.9	7668.3	7437.0	7183.4	7043.9	6761.8	6482.9	5746.5	5629.2	4204.0
35°	8334.0	8354.0	8178.6	7926.1	7649.3	7525.7	7169.6	6814.7	6124.7	5996.9	4451.2
37.5°	8683.7	8673.1	8517.8	8299.1	8056.1	7948.3	7646.1	7177.0	6531.5	6408.9	4721.7
40°	8808.3	8802.0	8686.8	8527.3	8373.0	8335.0	8144.8	7568.0	6997.4	6853.7	5047.1
42.5°	8729.1	8742.8	8666.8	8623.4	8594.9	8622.4	8640.3	8080.4	7505.6	7373.6	5400.0
45°	8486.1	8478.7	8468.1	8538.9	8699.5	8880.2	9130.6	8564.3	8058.2	7952.5	5873.3
47.5°	8051.9	8104.7	8131.1	8326.6	8677.3	9105.2	9694.8	9213.0	8860.1	8768.2	6594.9
50°	7444.3	7486.6	7643.0	7990.6	8513.6	9189.7	10246.3	10273.8	10197.7	10025.5	7378.8
52.5°	6495.6	6561.1	6883.3	7520.4	8177.6	9154.9	10580.1	11183.4	11283.8	11154.9	8151.2
55°	5433.8	5525.7	5865.9	6701.6	7714.8	8964.7	10810.5	11710.6	12111.1	11991.7	8895.0
57.5°	4394.1	4491.3	4841.0	5650.4	6907.6	8544.2	10961.6	12298.1	13237.3	13082.0	9820.5
60°	3293.2	3394.6	3694.7	4528.3	5758.1	7722.2	10859.1	12807.3	14362.5	14296.0	10747.1
62.5°	2124.7	2236.7	2497.6	3187.6	4425.8	6599.1	10310.7	13088.4	15336.7	15256.4	11423.3
65°	1294.3	1306.9	1450.6	1978.9	3029.1	5109.4	9056.6	12715.4	15850.1	15825.8	11629.3
67.5°	836.8	856.9	922.4	1185.4	1816.2	3548.9	7241.5	11484.5	15550.1	15541.6	11203.5
70°	706.8	713.2	742.7	799.8	1055.5	2152.2	5085.1	9522.6	14410.1	14410.1	10179.7
72.5°	631.8	640.3	650.8	668.8	753.3	1219.2	3034.4	7412.7	12441.8	12524.2	8664.6
75°	573.7	571.6	577.9	581.1	642.4	796.6	1569.0	5482.4	9625.0	9460.2	6274.8
77.5°	491.3	494.5	491.3	505.0	567.4	606.5	796.6	3678.9	5833.1	5619.7	3149.5
80°	403.6	408.9	414.2	422.6	484.9	460.6	478.6	1676.7	2157.4	2112.0	973.1
82.5°	303.2	310.6	319.1	339.1	381.4	304.3	302.2	716.3	778.7	713.2	358.2
85°	122.6	144.7	218.7	238.8	239.8	166.9	186.0	299.0	318.0	310.6	140.5
87.5°	28.5	33.8	70.8	106.7	98.3	62.3	68.7	97.2	110.9	102.5	47.5
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°	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1845.8	1808.8	1745.4	1696.8	1661.9	1631.3	1612.3	1600.7	1596.4	1595.4	1596.4
5°	1908.1	1842.6	1742.2	1678.8	1644.0	1623.9	1612.3	1611.2	1612.3	1613.3	1610.2
7.5°	1993.7	1899.7	1768.6	1709.5	1683.1	1668.3	1663.0	1660.9	1661.9	1660.9	1660.9
10°	2107.8	1978.9	1820.4	1759.1	1736.9	1720.0	1711.6	1706.3	1702.1	1697.9	1695.7
12.5°	2233.5	2066.6	1876.4	1817.2	1785.5	1759.1	1740.1	1726.4	1716.9	1707.4	1705.2
15°	2374.0	2159.6	1938.7	1856.3	1810.9	1771.8	1739.1	1716.9	1700.0	1686.2	1685.2
17.5°	2508.2	2247.3	1981.0	1874.3	1807.7	1752.8	1709.5	1678.8	1657.7	1639.7	1637.6
20°	2651.9	2330.7	2000.0	1862.7	1776.0	1709.5	1652.4	1615.4	1591.1	1571.1	1567.9
22.5°	2796.6	2401.5	1997.9	1825.7	1721.1	1642.9	1582.7	1543.6	1515.1	1495.0	1487.6
25°	2935.1	2458.6	1971.5	1766.5	1645.0	1563.7	1502.4	1466.5	1441.1	1416.8	1416.8
27.5°	3059.7	2492.4	1921.8	1694.7	1566.8	1481.3	1432.7	1399.9	1376.7	1360.8	1351.3
30°	3182.3	2508.2	1854.2	1603.8	1484.4	1411.5	1372.4	1353.4	1332.3	1314.3	1312.2
32.5°	3292.2	2505.0	1769.7	1515.1	1406.2	1354.5	1338.6	1323.8	1301.7	1276.3	1270.0
35°	3398.9	2483.9	1669.3	1417.9	1340.7	1320.7	1324.9	1303.8	1263.6	1231.9	1226.6
37.5°	3515.1	2445.9	1559.4	1338.6	1285.8	1304.8	1315.4	1268.9	1203.4	1153.7	1142.1
40°	3649.3	2402.6	1445.3	1259.4	1242.5	1290.0	1290.0	1204.5	1114.6	1084.0	1075.6
42.5°	3806.7	2366.6	1350.3	1192.8	1206.6	1254.1	1248.8	1118.9	1081.9	1066.0	1061.8
45°	4056.0	2354.0	1252.0	1134.7	1177.0	1211.8	1168.5	1089.3	1068.2	1055.5	1051.3
47.5°	4450.1	2368.8	1165.4	1091.4	1143.2	1169.6	1078.7	1069.2	1054.4	1036.5	1034.3
50°	4815.7	2355.0	1104.1	1067.1	1113.6	1118.9	1041.7	1044.9	1036.5	1016.4	1012.2
52.5°	5114.7	2311.7	1065.0	1054.4	1088.2	1030.1	1006.9	1018.5	1015.3	990.0	985.7
55°	5443.3	2285.3	1046.0	1054.4	1071.3	953.0	974.1	991.0	986.8	968.8	967.8
57.5°	5841.6	2290.6	1032.2	1057.6	1054.4	913.9	941.4	961.4	960.4	955.1	955.1
60°	6249.4	2292.7	1011.1	1056.5	1034.3	883.3	907.6	936.1	938.2	941.4	941.4
62.5°	6384.6	2200.8	969.9	1037.5	990.0	853.7	875.9	915.0	912.8	921.3	922.4
65°	6132.1	1946.1	908.6	994.2	932.9	832.5	851.6	887.5	875.9	898.1	902.3
67.5°	5581.7	1610.2	813.5	916.0	869.5	810.4	835.7	849.5	828.3	871.6	872.7
70°	4824.1	1257.3	693.1	805.1	797.7	787.1	823.0	801.9	772.3	825.2	814.6
72.5°	4033.9	960.4	553.6	658.2	701.5	752.3	800.9	740.6	699.4	715.3	696.3
75°	3030.1	710.0	444.8	515.6	584.3	702.6	780.8	666.7	603.3	588.5	584.3
77.5°	1544.7	463.8	332.8	385.6	438.5	635.0	753.3	580.0	499.7	476.5	465.9
80°	551.5	288.4	234.6	266.2	295.8	546.2	658.2	479.7	387.7	383.5	387.7
82.5°	255.7	186.0	157.4	174.3	175.4	364.5	501.9	358.2	294.8	448.0	378.2
85°	109.9	93.0	88.7	86.6	80.3	162.7	282.1	192.3	300.1	134.2	123.6
87.5°	32.8	37.0	32.8	24.3	18.0	18.0	28.5	10.6	7.4	5.3	5.3
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)