

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: P452791

Luminaire Tested: **GALN-SA3D-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452791
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-SA3D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21434 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

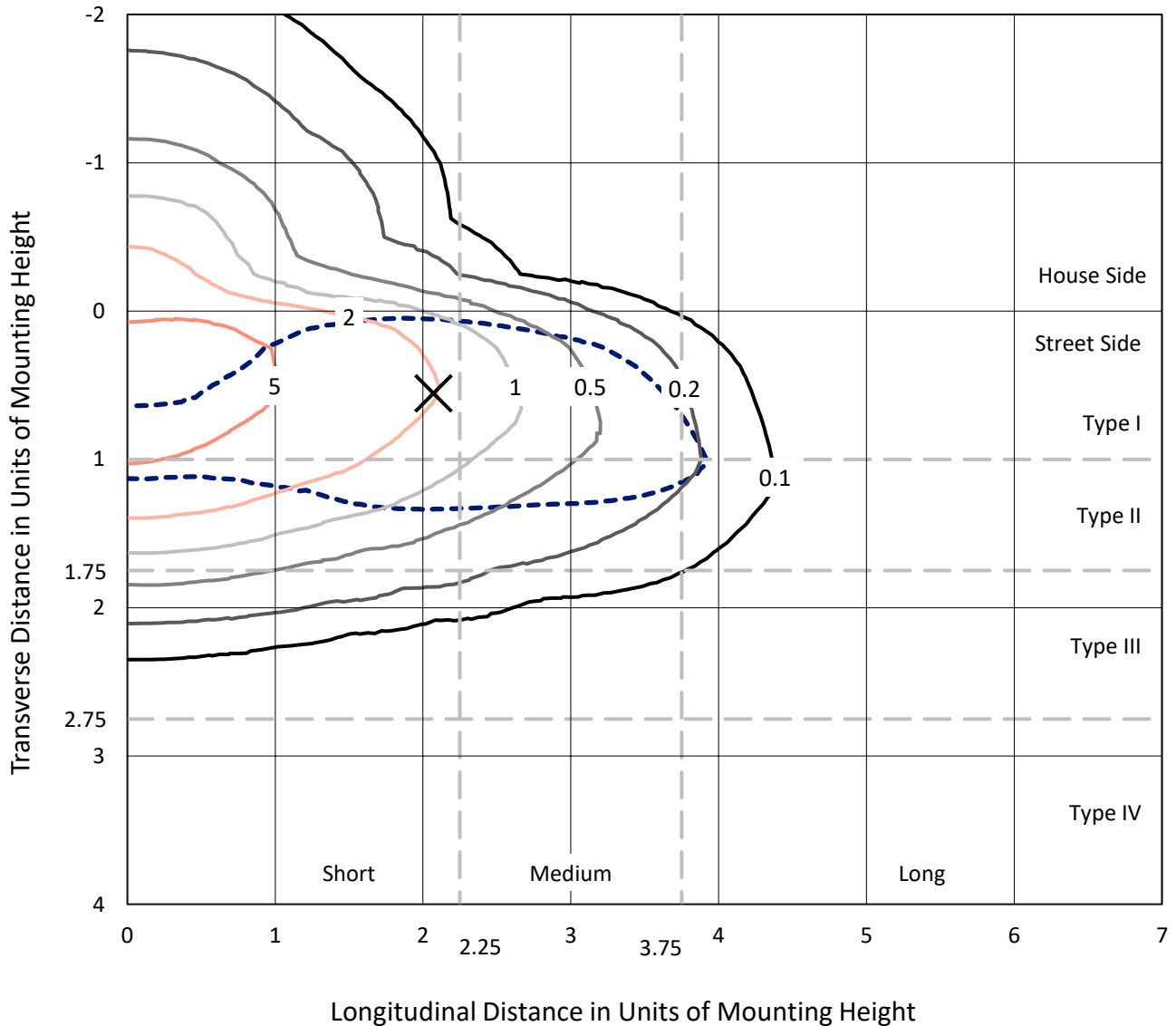
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452791
 CATALOG NUMBER: GALN-SA3D-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

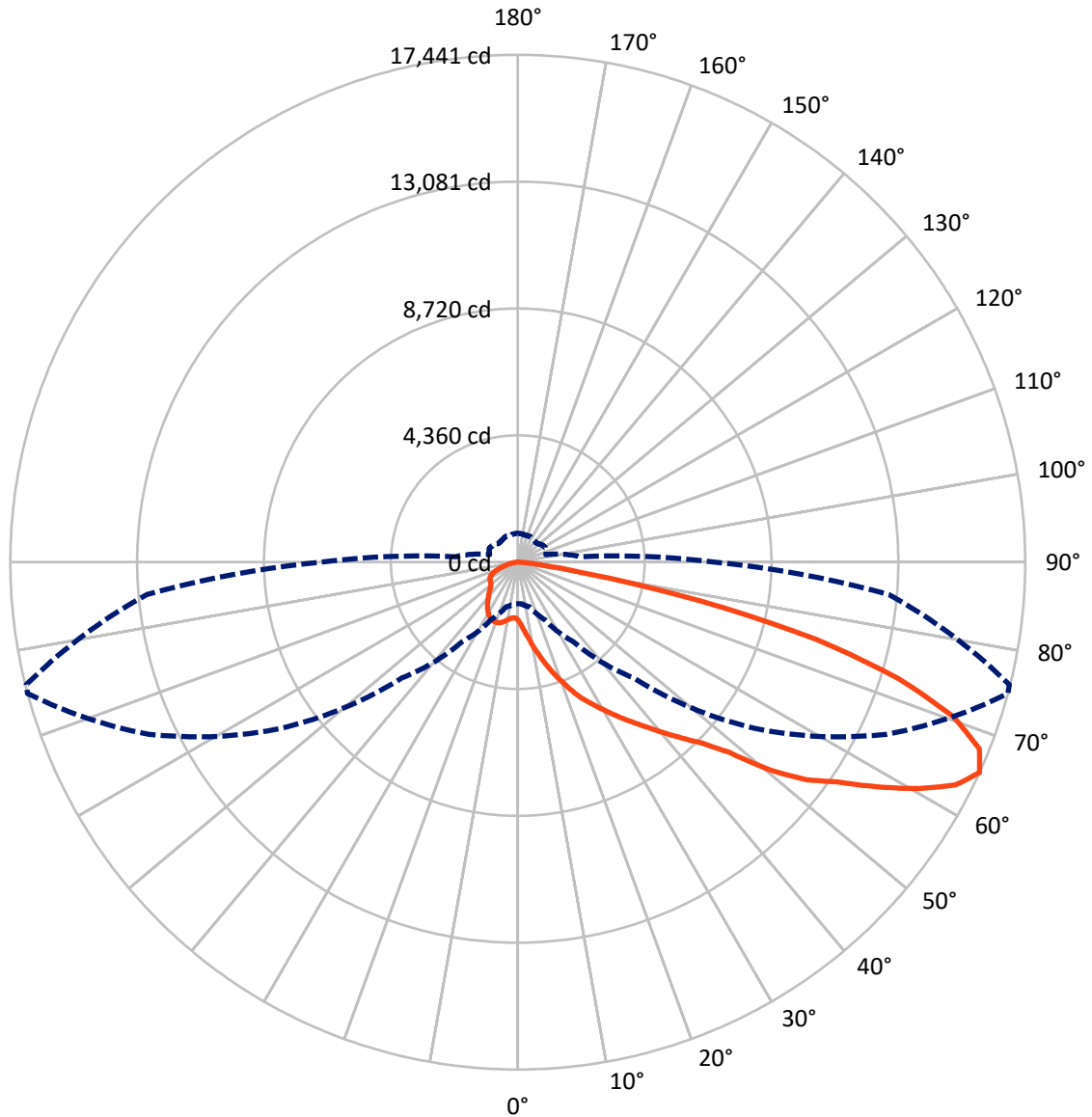
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

REPORT NUMBER: P452791
CATALOG NUMBER: GALN-SA3D-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452791

CATALOG NUMBER: GALN-SA3D-730-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3603.3	0.0	3603.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17830.7	0.0	17830.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	21434.0	0.0	21434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	1.1
10°-20°	947.7	4.4
20°-30°	1830.7	8.5
30°-40°	2973.6	13.9
40°-50°	4090.4	19.1
50°-60°	4829.4	22.5
60°-70°	4231.4	19.7
70°-80°	2020.1	9.4
80°-90°	268.8	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°	21434.0	100.0
0°-180°	21434.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452791

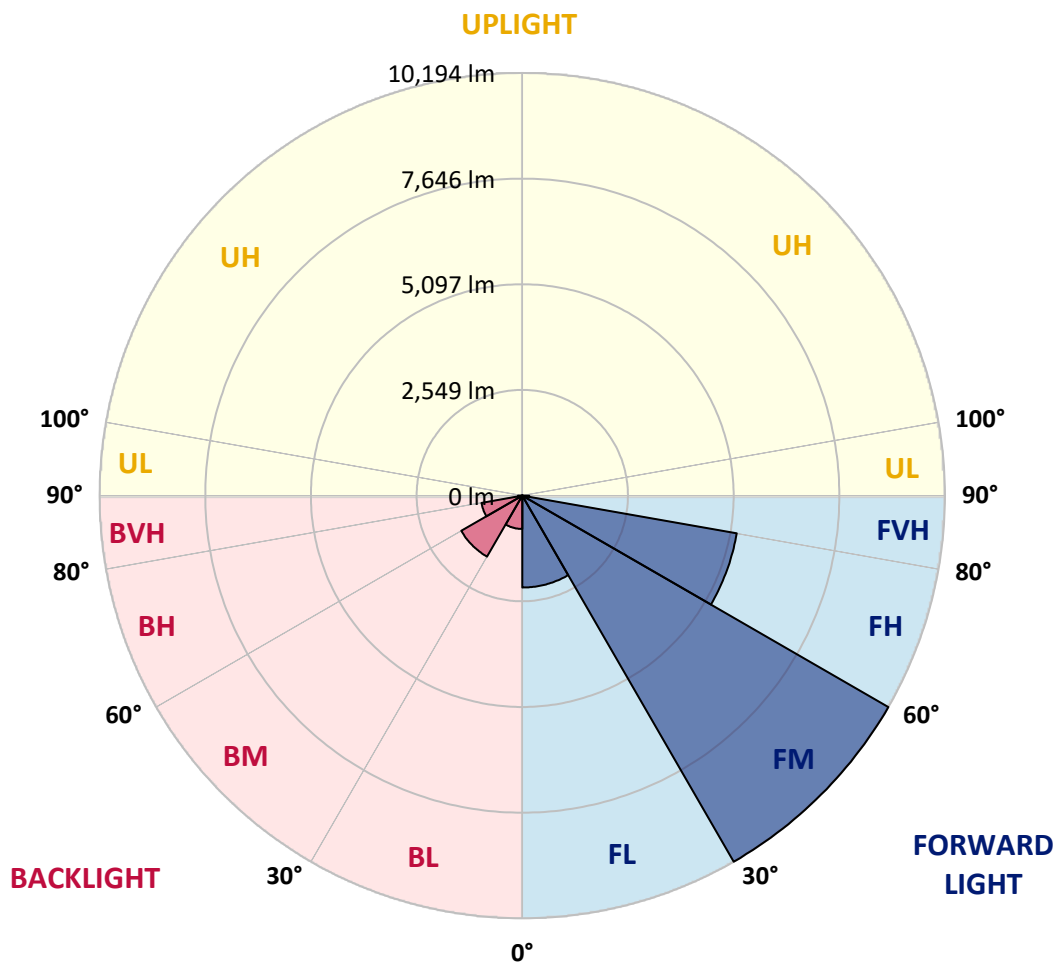
CATALOG NUMBER: GALN-SA3D-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2215.9	10.3			
FM	(30°-60°)	10194.5	47.6			
FH	(60°-80°)	5252.3	24.5			G3/7500
FVH	(80°-90°)	168.0	0.8			G2/225
BL	(0°-30°)	804.4	3.8	B2/1000		
BM	(30°-60°)	1698.9	7.9	B2/2500		
BH	(60°-80°)	999.1	4.7	B2/1000		G2/1000
BVH	(80°-90°)	100.8	0.5			G2/225
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 Short





REPORT NUMBER: P452791
 CATALOG NUMBER: GALN-SA3D-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5
2.5°	2646.0	2628.6	2610.0	2558.8	2504.2	2442.6	2354.2	2269.3	2156.6	2153.1	2069.4
5°	3379.6	3368.0	3285.4	3237.8	3111.0	2942.5	2799.5	2577.4	2371.7	2347.2	2184.5
7.5°	4053.9	4008.6	3977.2	3891.1	3765.6	3549.3	3272.6	2972.7	2628.6	2596.0	2326.3
10°	4561.9	4557.3	4541.0	4466.6	4372.4	4157.4	3850.4	3420.3	2954.1	2890.2	2498.4
12.5°	4942.1	4945.6	4943.3	4942.1	4874.7	4692.1	4359.7	3906.2	3283.1	3237.8	2697.2
15°	5192.1	5226.9	5240.9	5299.0	5304.8	5182.8	4896.8	4375.9	3654.0	3586.5	2911.1
17.5°	5357.1	5374.6	5439.7	5538.5	5618.7	5596.6	5342.0	4810.7	4033.0	3920.2	3133.1
20°	5515.3	5545.5	5595.5	5730.3	5872.2	5937.3	5758.2	5256.0	4408.5	4336.4	3378.4
22.5°	5844.3	5887.3	5904.7	5973.3	6094.2	6209.3	6127.9	5682.7	4820.0	4722.4	3638.9
25°	6401.1	6446.5	6397.6	6381.4	6420.9	6477.9	6460.4	6084.9	5208.3	5068.8	3885.3
27.5°	7126.6	7132.4	7037.1	6946.4	6848.7	6819.7	6766.2	6441.8	5545.5	5429.2	4133.0
30°	7905.5	7877.6	7719.5	7555.6	7390.5	7227.7	7074.3	6785.9	5921.0	5787.3	4375.9
32.5°	8628.6	8613.5	8438.0	8183.4	7904.3	7750.9	7440.5	7133.6	6323.2	6194.2	4625.9
35°	9170.4	9192.5	8999.5	8721.6	8417.0	8281.0	7889.2	7498.6	6739.4	6598.8	4897.9
37.5°	9555.2	9543.6	9372.7	9132.0	8864.6	8746.0	8413.5	7897.4	7187.0	7052.2	5195.5
40°	9692.4	9685.4	9558.7	9383.1	9213.4	9171.5	8962.3	8327.5	7699.7	7541.6	5553.6
42.5°	9605.2	9620.3	9536.6	9488.9	9457.5	9487.8	9507.5	8891.4	8258.9	8113.6	5941.9
45°	9337.8	9329.7	9318.0	9395.9	9572.6	9771.4	10047.0	9423.8	8867.0	8750.7	6462.7
47.5°	8860.0	8918.1	8947.2	9162.2	9548.2	10019.1	10667.8	10137.6	9749.3	9648.2	7256.8
50°	8191.5	8238.0	8410.1	8792.5	9368.0	10112.1	11274.6	11304.9	11221.2	11031.7	8119.4
52.5°	7147.5	7219.6	7574.2	8275.2	8998.3	10073.7	11642.0	12305.8	12416.3	12274.5	8969.3
55°	5979.1	6080.3	6454.6	7374.2	8489.1	9864.4	11895.5	12886.0	13326.6	13195.2	9787.7
57.5°	4835.1	4942.1	5326.9	6217.4	7600.9	9401.7	12061.7	13532.4	14565.9	14395.0	10806.1
60°	3623.7	3735.4	4065.5	4982.8	6336.0	8497.3	11948.9	14092.7	15804.0	15730.8	11825.7
62.5°	2337.9	2461.2	2748.3	3507.5	4870.0	7261.4	11345.6	14402.0	16875.9	16787.6	12569.8
65°	1424.2	1438.1	1596.2	2177.5	3333.1	5622.2	9965.6	13991.6	17440.9	17414.2	12796.5
67.5°	920.8	942.8	1014.9	1304.4	1998.5	3905.1	7968.3	12637.2	17110.8	17101.5	12327.9
70°	777.8	784.7	817.3	880.1	1161.4	2368.2	5595.5	10478.3	15856.3	15856.3	11201.4
72.5°	695.2	704.5	716.1	735.9	828.9	1341.6	3338.9	8156.6	13690.5	13781.2	9534.3
75°	631.3	629.0	635.9	639.4	706.8	876.6	1726.4	6032.6	10591.0	10409.7	6904.5
77.5°	540.6	544.1	540.6	555.7	624.3	667.3	876.6	4048.1	6418.6	6183.7	3465.6
80°	444.1	449.9	455.7	465.0	533.6	506.9	526.6	1845.0	2374.0	2324.0	1070.7
82.5°	333.7	341.8	351.1	373.2	419.7	334.8	332.5	788.2	856.8	784.7	394.1
85°	134.9	159.3	240.7	262.7	263.9	183.7	204.6	329.0	349.9	341.8	154.6
87.5°	31.4	37.2	77.9	117.4	108.1	68.6	75.6	107.0	122.1	112.8	52.3
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: P452791
 CATALOG NUMBER: GALN-SA3D-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5	1991.5
2.5°	2031.0	1990.3	1920.6	1867.1	1828.7	1795.0	1774.1	1761.3	1756.6	1755.5	1756.6
5°	2099.6	2027.5	1917.1	1847.3	1809.0	1786.9	1774.1	1772.9	1774.1	1775.3	1771.8
7.5°	2193.8	2090.3	1946.1	1881.0	1852.0	1835.7	1829.9	1827.6	1828.7	1827.6	1827.6
10°	2319.3	2177.5	2003.1	1935.7	1911.3	1892.7	1883.4	1877.6	1872.9	1868.3	1865.9
12.5°	2457.7	2274.0	2064.7	1999.6	1964.8	1935.7	1914.8	1899.6	1889.2	1878.7	1876.4
15°	2612.3	2376.3	2133.3	2042.6	1992.7	1949.6	1913.6	1889.2	1870.6	1855.5	1854.3
17.5°	2760.0	2472.8	2179.8	2062.4	1989.2	1928.7	1881.0	1847.3	1824.1	1804.3	1802.0
20°	2918.1	2564.6	2200.8	2049.6	1954.3	1881.0	1818.3	1777.6	1750.8	1728.7	1725.3
22.5°	3077.3	2642.5	2198.4	2008.9	1893.8	1807.8	1741.5	1698.5	1667.1	1645.0	1636.9
25°	3229.6	2705.3	2169.4	1943.8	1810.1	1720.6	1653.2	1613.7	1585.8	1559.0	1559.0
27.5°	3366.8	2742.5	2114.7	1864.8	1724.1	1629.9	1576.5	1540.4	1514.8	1497.4	1486.9
30°	3501.7	2760.0	2040.3	1764.8	1633.4	1553.2	1510.2	1489.3	1466.0	1446.2	1443.9
32.5°	3622.6	2756.5	1947.3	1667.1	1547.4	1490.4	1473.0	1456.7	1432.3	1404.4	1397.4
35°	3740.0	2733.2	1836.9	1560.2	1475.3	1453.2	1457.9	1434.6	1390.4	1355.6	1349.7
37.5°	3867.9	2691.4	1716.0	1473.0	1414.9	1435.8	1447.4	1396.3	1324.2	1269.5	1256.7
40°	4015.5	2643.7	1590.4	1385.8	1367.2	1419.5	1419.5	1325.3	1226.5	1192.8	1183.5
42.5°	4188.8	2604.2	1485.8	1312.5	1327.7	1380.0	1374.2	1231.2	1190.5	1173.0	1168.4
45°	4463.1	2590.2	1377.7	1248.6	1295.1	1333.5	1285.8	1198.6	1175.4	1161.4	1156.8
47.5°	4896.8	2606.5	1282.3	1200.9	1257.9	1287.0	1187.0	1176.5	1160.2	1140.5	1138.2
50°	5299.0	2591.4	1214.9	1174.2	1225.4	1231.2	1146.3	1149.8	1140.5	1118.4	1113.7
52.5°	5628.0	2543.7	1171.9	1160.2	1197.5	1133.5	1107.9	1120.7	1117.2	1089.3	1084.7
55°	5989.6	2514.6	1150.9	1160.2	1178.9	1048.6	1071.9	1090.5	1085.8	1066.1	1064.9
57.5°	6427.9	2520.5	1135.8	1163.7	1160.2	1005.6	1035.9	1057.9	1056.8	1051.0	1051.0
60°	6876.6	2522.8	1112.6	1162.6	1138.2	971.9	998.7	1030.0	1032.4	1035.9	1035.9
62.5°	7025.4	2421.6	1067.2	1141.6	1089.3	939.4	963.8	1006.8	1004.5	1013.8	1014.9
65°	6747.6	2141.5	999.8	1094.0	1026.6	916.1	937.0	976.6	963.8	988.2	992.8
67.5°	6141.9	1771.8	895.2	1008.0	956.8	891.7	919.6	934.7	911.5	959.1	960.3
70°	5308.3	1383.5	762.6	885.9	877.7	866.1	905.6	882.4	849.8	908.0	896.3
72.5°	4438.7	1056.8	609.2	724.3	771.9	827.8	881.2	815.0	769.6	787.1	766.1
75°	3334.3	781.2	489.4	567.3	642.9	773.1	859.1	733.6	663.8	647.6	642.9
77.5°	1699.7	510.4	366.2	424.3	482.5	698.7	828.9	638.3	549.9	524.3	512.7
80°	606.9	317.4	258.1	293.0	325.5	601.1	724.3	527.8	426.7	422.0	426.7
82.5°	281.3	204.6	173.2	191.8	193.0	401.1	552.2	394.1	324.4	492.9	416.2
85°	120.9	102.3	97.7	95.3	88.4	179.0	310.4	211.6	330.2	147.6	136.0
87.5°	36.0	40.7	36.0	26.7	19.8	19.8	31.4	11.6	8.1	5.8	5.8
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)