

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: P453719

Luminaire Tested: **GALN-SA4D-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453719
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-SA4D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 28404 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

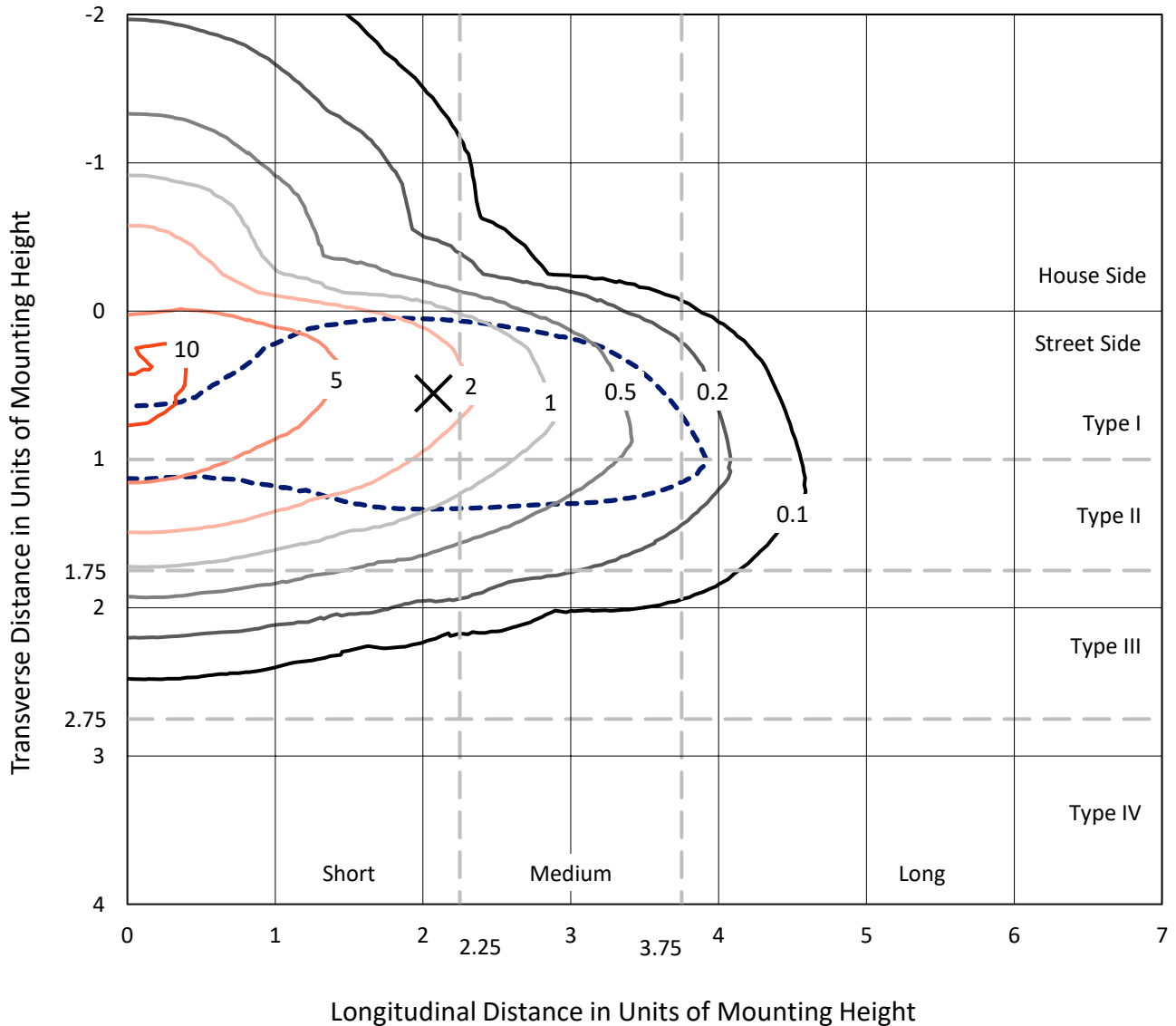
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453719
 CATALOG NUMBER: GALN-SA4D-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

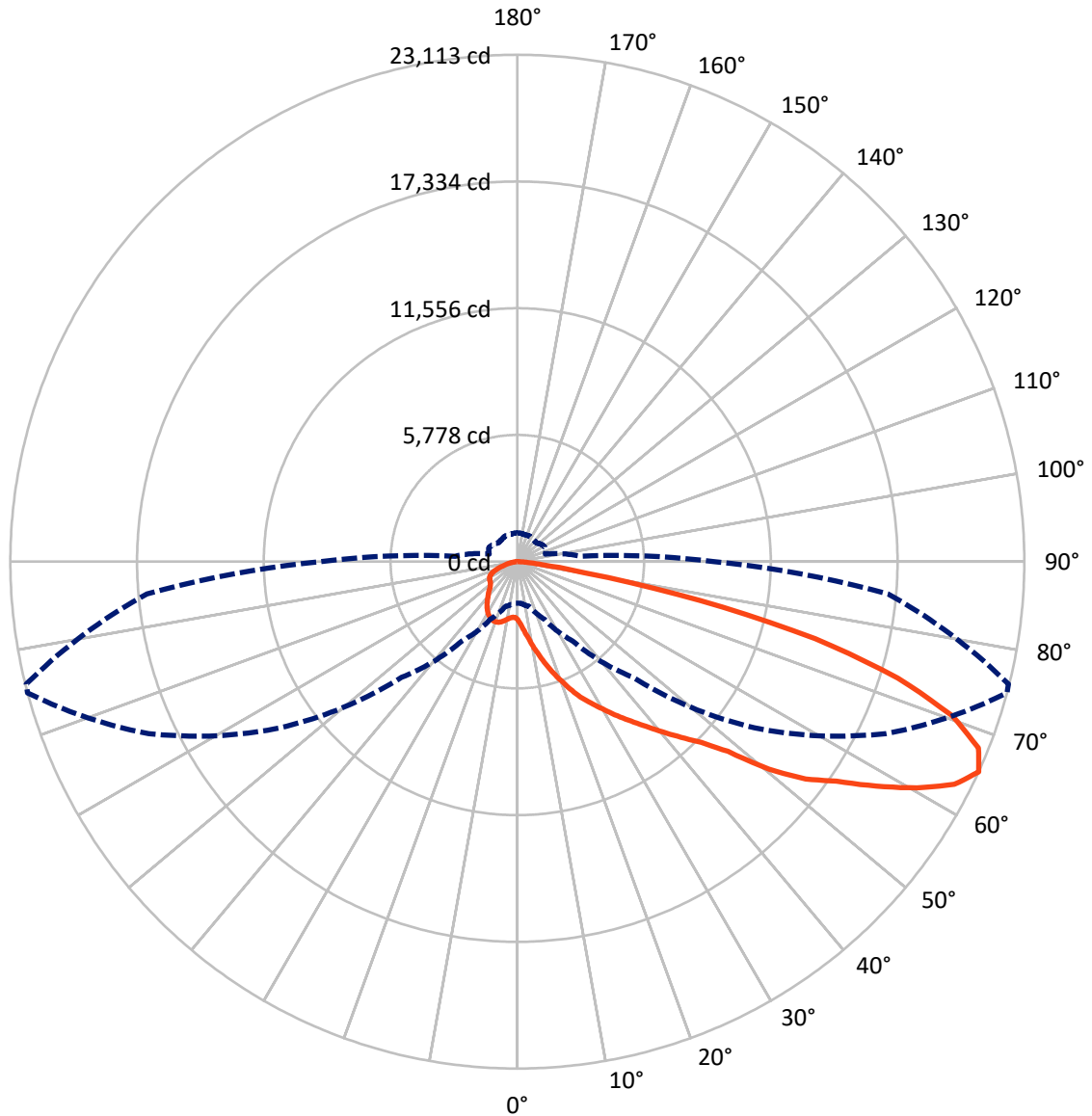
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P453719
CATALOG NUMBER: GALN-SA4D-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453719

CATALOG NUMBER: GALN-SA4D-730-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4775.1	0.0	4775.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23628.9	0.0	23628.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	28404.0	0.0	28404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	1.1
10°-20°	1255.9	4.4
20°-30°	2426.0	8.5
30°-40°	3940.5	13.9
40°-50°	5420.6	19.1
50°-60°	6399.8	22.5
60°-70°	5607.3	19.7
70°-80°	2677.0	9.4
80°-90°	356.2	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°	28404.0	100.0
0°-180°	28404.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453719

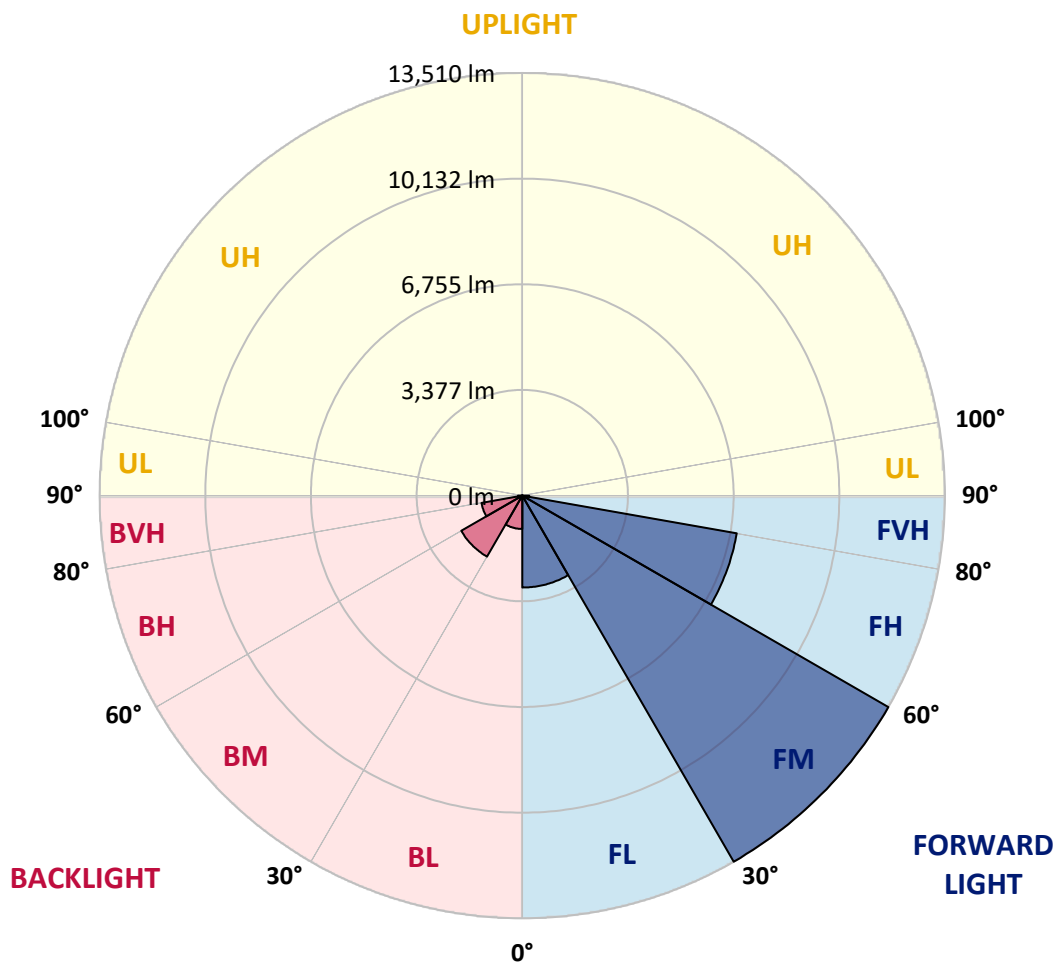
CATALOG NUMBER: GALN-SA4D-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2936.5	10.3			
FM	(30°-60°)	13509.5	47.6			
FH	(60°-80°)	6960.3	24.5			G3/7500
FVH	(80°-90°)	222.6	0.8			G2/225
BL	(0°-30°)	1066.0	3.8	B3/2500		
BM	(30°-60°)	2251.4	7.9	B2/2500		
BH	(60°-80°)	1324.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	133.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P453719

CATALOG NUMBER: GALN-SA4D-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1
2.5°	3506.5	3483.4	3458.7	3390.9	3318.5	3236.9	3119.8	3007.3	2857.9	2853.2	2742.3
5°	4478.6	4463.2	4353.8	4290.6	4122.7	3899.3	3709.8	3415.6	3142.9	3110.5	2894.8
7.5°	5372.2	5312.1	5270.5	5156.5	4990.1	4703.5	4336.9	3939.4	3483.4	3440.2	3082.8
10°	6045.4	6039.2	6017.7	5919.1	5794.3	5509.3	5102.5	4532.5	3914.7	3830.0	3310.8
12.5°	6549.2	6553.8	6550.7	6549.2	6459.8	6218.0	5777.3	5176.5	4350.7	4290.6	3574.2
15°	6880.4	6926.6	6945.1	7022.2	7029.9	6868.1	6489.1	5798.9	4842.2	4752.8	3857.7
17.5°	7099.2	7122.3	7208.6	7339.5	7445.8	7416.6	7079.2	6375.1	5344.4	5195.0	4152.0
20°	7308.7	7348.8	7415.0	7593.7	7781.7	7868.0	7630.7	6965.2	5842.0	5746.5	4477.1
22.5°	7744.7	7801.7	7824.8	7915.7	8076.0	8228.5	8120.6	7530.6	6387.4	6258.0	4822.2
25°	8482.7	8542.8	8478.1	8456.5	8508.9	8584.4	8561.3	8063.6	6902.0	6717.1	5148.8
27.5°	9444.0	9451.7	9325.4	9205.2	9075.8	9037.3	8966.4	8536.6	7348.8	7194.7	5476.9
30°	10476.2	10439.3	10229.7	10012.5	9793.8	9578.1	9374.7	8992.6	7846.4	7669.2	5798.9
32.5°	11434.5	11414.5	11181.9	10844.5	10474.7	10271.3	9860.0	9453.3	8379.5	8208.4	6130.1
35°	12152.4	12181.7	11926.0	11557.8	11154.1	10973.9	10454.7	9937.0	8931.0	8744.6	6490.7
37.5°	12662.4	12647.0	12420.5	12101.6	11747.3	11590.1	11149.5	10465.5	9524.1	9345.4	6885.1
40°	12844.2	12834.9	12667.0	12434.4	12209.5	12154.0	11876.7	11035.5	10203.6	9994.0	7359.6
42.5°	12728.6	12748.7	12637.7	12574.6	12533.0	12573.0	12599.2	11782.7	10944.6	10752.0	7874.1
45°	12374.3	12363.5	12348.1	12451.3	12685.5	12949.0	13314.1	12488.3	11750.3	11596.3	8564.3
47.5°	11741.1	11818.1	11856.6	12141.7	12653.2	13277.1	14136.8	13434.2	12919.7	12785.6	9616.6
50°	10855.2	10916.9	11144.9	11651.7	12414.4	13400.4	14941.0	14981.0	14870.1	14619.0	10759.7
52.5°	9471.8	9567.3	10037.2	10966.2	11924.4	13349.5	15427.8	16307.5	16453.9	16265.9	11885.9
55°	7923.4	8057.5	8553.5	9772.2	11249.6	13072.2	15763.7	17076.3	17660.2	17486.1	12970.5
57.5°	6407.5	6549.2	7059.1	8239.3	10072.6	12459.0	15984.0	17932.9	19302.5	19076.0	14320.1
60°	4802.1	4950.0	5387.6	6603.1	8396.4	11260.4	15834.5	18675.5	20943.3	20846.2	15671.2
62.5°	3098.2	3261.5	3642.0	4648.1	6453.7	9622.7	15035.0	19085.3	22363.7	22246.6	16657.2
65°	1887.3	1905.8	2115.3	2885.6	4417.0	7450.5	13206.2	18541.4	23112.5	23077.0	16957.7
67.5°	1220.2	1249.4	1345.0	1728.6	2648.3	5175.0	10559.4	16746.6	22674.9	22662.6	16336.8
70°	1030.7	1039.9	1083.1	1166.3	1539.1	3138.3	7415.0	13885.7	21012.6	21012.6	14843.9
72.5°	921.3	933.6	949.0	975.2	1098.5	1777.9	4424.7	10809.0	18142.4	18262.6	12634.7
75°	836.6	833.5	842.7	847.3	936.7	1161.6	2287.8	7994.3	14035.1	13794.8	9149.8
77.5°	716.4	721.0	716.4	736.4	827.3	884.3	1161.6	5364.5	8505.8	8194.6	4592.6
80°	588.5	596.2	603.9	616.2	707.1	671.7	697.9	2445.0	3146.0	3079.7	1418.9
82.5°	442.2	452.9	465.3	494.5	556.2	443.7	440.6	1044.5	1135.4	1039.9	522.3
85°	178.7	211.1	318.9	348.2	349.7	243.4	271.1	436.0	463.7	452.9	204.9
87.5°	41.6	49.3	103.2	155.6	143.3	90.9	100.1	141.7	161.8	149.4	69.3
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: P453719

CATALOG NUMBER: GALN-SA4D-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1	2639.1
2.5°	2691.5	2637.5	2545.1	2474.2	2423.4	2378.7	2351.0	2334.0	2327.9	2326.3	2327.9
5°	2782.4	2686.8	2540.5	2448.1	2397.2	2367.9	2351.0	2349.5	2351.0	2352.5	2347.9
7.5°	2907.2	2770.0	2579.0	2492.7	2454.2	2432.6	2424.9	2421.9	2423.4	2421.9	2421.9
10°	3073.5	2885.6	2654.5	2565.1	2532.8	2508.1	2495.8	2488.1	2481.9	2475.8	2472.7
12.5°	3256.9	3013.5	2736.1	2649.9	2603.7	2565.1	2537.4	2517.4	2503.5	2489.6	2486.6
15°	3461.8	3149.0	2827.0	2706.9	2640.6	2583.6	2535.9	2503.5	2478.9	2458.8	2457.3
17.5°	3657.4	3276.9	2888.7	2733.1	2636.0	2555.9	2492.7	2448.1	2417.2	2391.0	2388.0
20°	3867.0	3398.6	2916.4	2716.1	2589.8	2492.7	2409.5	2355.6	2320.2	2290.9	2286.3
22.5°	4078.0	3501.8	2913.3	2662.2	2509.7	2395.7	2307.9	2250.9	2209.3	2180.0	2169.2
25°	4279.9	3585.0	2874.8	2575.9	2398.8	2280.1	2190.8	2138.4	2101.4	2066.0	2066.0
27.5°	4461.6	3634.3	2802.4	2471.2	2284.7	2160.0	2089.1	2041.3	2007.4	1984.3	1970.5
30°	4640.4	3657.4	2703.8	2338.7	2164.6	2058.3	2001.3	1973.5	1942.7	1916.5	1913.5
32.5°	4800.6	3652.8	2580.5	2209.3	2050.6	1975.1	1952.0	1930.4	1898.0	1861.1	1851.8
35°	4956.2	3622.0	2434.2	2067.5	1955.1	1925.8	1931.9	1901.1	1842.6	1796.4	1788.7
37.5°	5125.7	3566.5	2274.0	1952.0	1874.9	1902.7	1918.1	1850.3	1754.8	1682.4	1665.4
40°	5321.3	3503.4	2107.6	1836.4	1811.8	1881.1	1881.1	1756.3	1625.4	1580.7	1568.4
42.5°	5550.9	3451.0	1968.9	1739.4	1759.4	1828.7	1821.0	1631.5	1577.6	1554.5	1548.3
45°	5914.5	3432.5	1825.6	1654.6	1716.3	1767.1	1703.9	1588.4	1557.6	1539.1	1532.9
47.5°	6489.1	3454.1	1699.3	1591.5	1667.0	1705.5	1573.0	1559.1	1537.5	1511.4	1508.3
50°	7022.2	3434.1	1610.0	1556.0	1623.8	1631.5	1519.1	1523.7	1511.4	1482.1	1475.9
52.5°	7458.2	3370.9	1552.9	1537.5	1586.8	1502.1	1468.2	1485.2	1480.5	1443.6	1437.4
55°	7937.3	3332.4	1525.2	1537.5	1562.2	1389.6	1420.5	1445.1	1438.9	1412.8	1411.2
57.5°	8518.1	3340.1	1505.2	1542.2	1537.5	1332.6	1372.7	1402.0	1400.4	1392.7	1392.7
60°	9112.8	3343.2	1474.4	1540.6	1508.3	1288.0	1323.4	1365.0	1368.1	1372.7	1372.7
62.5°	9310.0	3209.1	1414.3	1512.9	1443.6	1244.8	1277.2	1334.2	1331.1	1343.4	1345.0
65°	8941.8	2837.8	1324.9	1449.7	1360.4	1214.0	1241.7	1294.1	1277.2	1309.5	1315.7
67.5°	8139.1	2347.9	1186.3	1335.7	1267.9	1181.7	1218.6	1238.7	1207.8	1271.0	1272.6
70°	7034.5	1833.3	1010.6	1174.0	1163.2	1147.8	1200.1	1169.3	1126.2	1203.2	1187.8
72.5°	5882.1	1400.4	807.3	959.8	1023.0	1096.9	1167.8	1080.0	1019.9	1043.0	1015.3
75°	4418.5	1035.3	648.6	751.8	852.0	1024.5	1138.5	972.1	879.7	858.1	852.0
77.5°	2252.4	676.3	485.3	562.3	639.4	925.9	1098.5	845.8	728.7	694.8	679.4
80°	804.2	420.6	342.0	388.2	431.4	796.5	959.8	699.4	565.4	559.2	565.4
82.5°	372.8	271.1	229.6	254.2	255.7	531.5	731.8	522.3	429.8	653.2	551.5
85°	160.2	135.6	129.4	126.3	117.1	237.3	411.3	280.4	437.5	195.7	180.3
87.5°	47.8	53.9	47.8	35.4	26.2	26.2	41.6	15.4	10.8	7.7	7.7
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)