

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: P527020

Luminaire Tested: **GALN-SA2A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7360 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

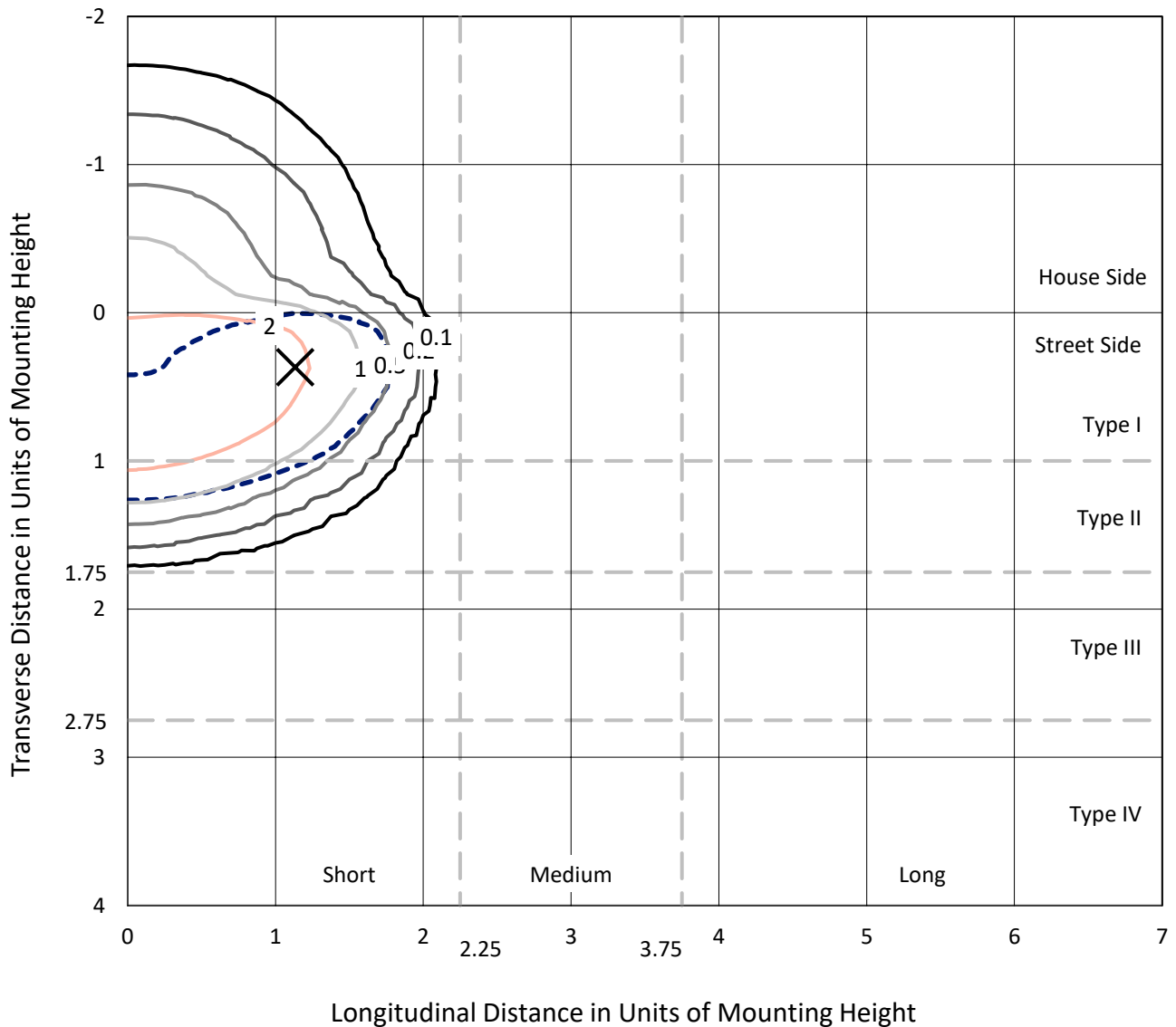
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527020  
 CATALOG NUMBER: GALN-SA2A-730-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

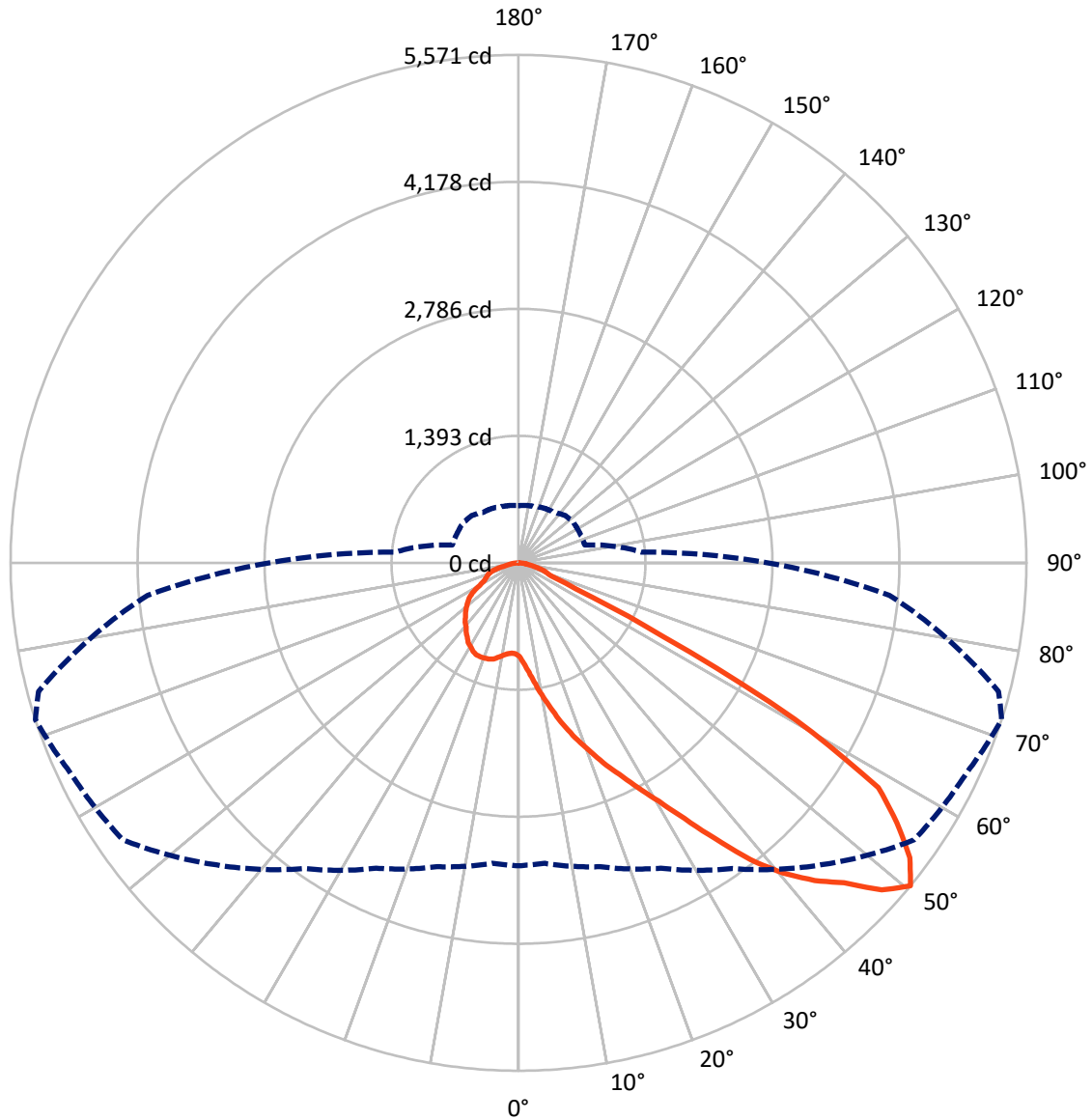
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P527020  
CATALOG NUMBER: GALN-SA2A-730-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527020  
 CATALOG NUMBER: GALN-SA2A-730-U-T2R-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1686.2	0.0	1686.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5673.8	0.0	5673.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7360.0	0.0	7360.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	1.6
10°-20°	450.5	6.1
20°-30°	873.5	11.9
30°-40°	1447.2	19.7
40°-50°	2024.9	27.5
50°-60°	1708.3	23.2
60°-70°	520.7	7.1
70°-80°	182.7	2.5
80°-90°	31.8	0.4
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°	7360.0	100.0
0°-180°	7360.0	100.0

**Coefficient of Utilization**



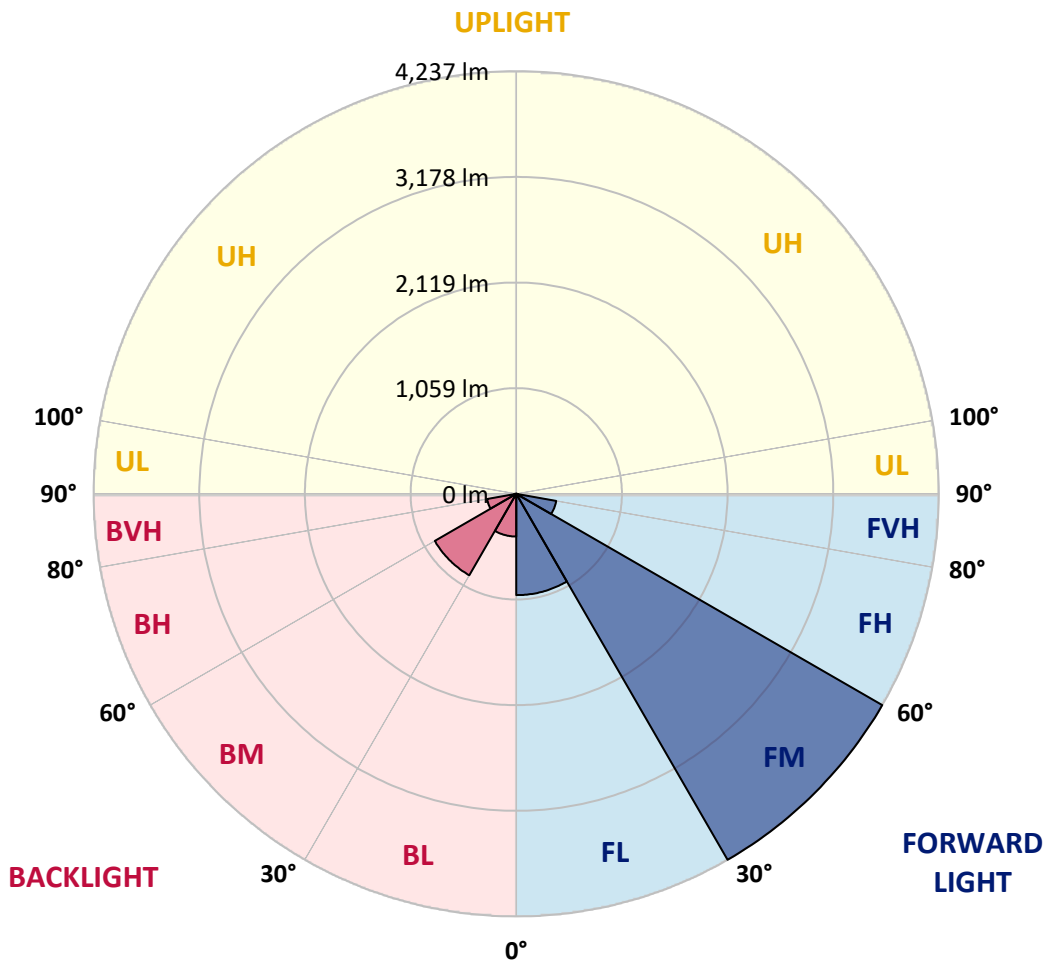
REPORT NUMBER: P527020  
 CATALOG NUMBER: GALN-SA2A-730-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.9	13.8			
FM (30°-60°)	4237.3	57.6			
FH (60°-80°)	406.3	5.5			G0/660
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	428.6	5.8	B1/500		
BM (30°-60°)	943.0	12.8	B1/1000		
BH (60°-80°)	297.1	4.0	B1/500		G1/500
BVH (80°-90°)	17.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P527020

CATALOG NUMBER: GALN-SA2A-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1317.8	1309.6	1285.0	1276.8	1247.7	1194.9	1176.7	1122.9	1100.2	1079.2	1054.6
5°	1666.6	1628.4	1625.7	1579.2	1511.8	1472.7	1356.1	1277.8	1205.8	1169.4	1102.0
7.5°	1888.9	1889.8	1889.8	1851.5	1797.8	1698.5	1593.8	1452.6	1344.2	1290.5	1175.8
10°	2100.2	2081.9	2071.9	2068.3	2031.8	1935.3	1823.3	1648.4	1500.0	1437.1	1231.3
12.5°	2249.5	2234.0	2256.8	2245.0	2218.5	2155.7	2050.1	1850.6	1664.8	1580.1	1320.6
15°	2320.5	2331.5	2349.7	2382.5	2370.6	2347.0	2230.4	2058.3	1842.4	1746.8	1399.8
17.5°	2429.8	2399.8	2421.6	2462.6	2495.4	2484.5	2418.0	2208.5	2018.2	1900.7	1506.4
20°	2506.3	2489.0	2500.0	2547.3	2571.9	2633.8	2599.2	2405.2	2186.7	2062.8	1632.0
22.5°	2724.9	2699.4	2663.9	2671.2	2680.3	2724.0	2732.2	2621.1	2382.5	2251.3	1751.3
25°	2994.5	2970.8	2928.9	2886.1	2859.7	2851.5	2879.7	2790.5	2570.1	2434.4	1879.8
27.5°	3291.4	3251.3	3224.9	3136.6	3065.5	3054.6	3040.9	2992.7	2792.3	2645.7	2024.6
30°	3580.1	3548.2	3512.7	3371.5	3297.8	3285.9	3218.5	3232.2	3033.7	2870.6	2188.5
32.5°	3798.7	3801.4	3720.3	3613.8	3544.6	3481.7	3457.1	3496.3	3343.3	3212.2	2371.5
35°	3975.4	3983.5	3906.1	3809.6	3734.9	3778.6	3767.7	3785.9	3713.1	3552.8	2584.7
37.5°	4147.5	4106.5	4023.6	3977.2	3938.0	4010.0	4102.9	4118.3	4132.0	3943.5	2832.4
40°	4175.7	4179.4	4131.1	4163.9	4114.7	4223.1	4438.9	4418.9	4474.4	4309.6	3101.0
42.5°	4135.6	4143.8	4163.0	4209.4	4327.8	4458.0	4778.6	4696.7	4764.0	4617.4	3362.4
45°	4070.1	4036.4	4060.0	4236.7	4441.6	4731.3	5089.2	5025.4	5003.6	4880.6	3673.9
47.5°	3756.8	3791.4	3865.2	4082.8	4390.6	4778.6	5309.6	5295.0	5360.6	5274.1	3957.1
50°	3322.4	3308.7	3450.8	3695.8	4092.8	4685.7	5297.7	5429.8	5571.0	5450.7	4083.7
52.5°	2488.1	2561.0	2683.0	2987.2	3553.7	4179.4	5039.1	5259.5	5374.2	5348.7	3981.7
55°	1572.8	1594.7	1668.5	2030.0	2540.0	3354.2	4319.6	4830.5	5035.4	5131.1	3887.9
57.5°	764.1	723.1	813.3	1103.8	1467.2	2255.9	3331.5	4207.6	4652.9	4826.0	3683.9
60°	398.9	414.4	449.9	553.7	758.6	1171.2	2076.5	2804.1	3484.5	3750.4	2792.3
62.5°	330.6	336.1	359.7	411.7	504.5	673.9	1060.1	1367.0	1776.8	2016.4	1588.3
65°	280.5	283.2	308.7	343.3	402.5	474.5	545.5	571.0	691.2	709.5	564.7
67.5°	234.1	236.8	264.1	296.9	335.1	354.3	372.5	370.7	384.3	378.9	378.0
70°	180.3	183.1	211.3	245.9	265.0	254.1	310.6	323.3	328.8	333.3	340.6
72.5°	130.2	135.7	157.6	182.1	172.1	197.6	255.9	275.0	282.3	285.1	294.2
75°	94.7	96.5	102.0	94.7	109.3	137.5	180.3	204.0	213.1	215.8	229.5
77.5°	41.9	42.8	43.7	54.6	70.1	85.6	107.5	126.6	139.3	143.0	146.6
80°	21.9	22.8	28.2	37.3	50.1	62.8	78.3	89.3	97.4	98.4	102.0
82.5°	13.7	14.6	20.0	26.4	35.5	46.4	57.4	66.5	72.9	73.8	74.7
85°	6.4	8.2	11.8	16.4	23.7	30.1	31.0	26.4	28.2	29.1	27.3
87.5°	1.8	2.7	3.6	2.7	3.6	3.6	4.6	5.5	5.5	5.5	6.4
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: P527020

CATALOG NUMBER: GALN-SA2A-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1041.0	1032.8	1000.9	989.1	958.1	963.6	947.2	946.3	942.6	941.7	940.8
5°	1066.5	1041.0	1002.7	973.6	956.3	954.4	942.6	942.6	946.3	949.0	942.6
7.5°	1108.4	1079.2	1014.6	987.2	971.8	969.0	960.8	954.4	962.6	959.9	952.6
10°	1156.6	1105.6	1037.3	1013.6	988.1	981.8	981.8	984.5	970.8	975.4	968.1
12.5°	1210.4	1142.1	1066.5	1039.1	1009.1	1005.4	1003.6	983.6	990.9	987.2	969.0
15°	1278.7	1184.0	1103.8	1057.4	1031.9	1015.5	991.8	988.1	983.6	974.5	966.3
17.5°	1352.4	1229.5	1121.1	1062.8	1024.6	1012.7	994.5	975.4	961.7	963.6	957.2
20°	1415.3	1271.4	1127.5	1068.3	1019.1	996.3	968.1	956.3	941.7	940.8	939.9
22.5°	1490.0	1327.8	1136.6	1053.7	1002.7	979.0	959.9	939.0	928.9	916.2	922.6
25°	1579.2	1349.7	1138.4	1045.5	990.9	949.0	939.0	916.2	912.6	894.3	898.0
27.5°	1643.9	1361.5	1123.8	1020.0	963.6	931.7	913.5	897.1	890.7	877.0	873.4
30°	1730.4	1379.8	1092.9	988.1	936.2	900.7	889.8	886.1	867.9	853.4	851.5
32.5°	1828.8	1391.6	1072.8	955.4	908.0	880.7	886.1	868.8	846.1	833.3	829.7
35°	1907.1	1396.2	1022.8	918.0	888.9	871.6	865.2	861.6	828.8	816.9	807.8
37.5°	2026.4	1386.1	980.9	891.6	867.9	861.6	856.1	831.5	794.2	776.9	764.1
40°	2165.7	1383.4	927.1	854.3	847.9	855.2	838.8	800.5	748.6	729.5	720.4
42.5°	2299.6	1402.5	893.4	834.2	826.0	828.8	806.0	748.6	723.1	712.2	697.6
45°	2523.6	1442.6	837.9	803.3	799.6	797.8	770.5	710.4	695.8	682.1	679.4
47.5°	2725.8	1416.2	802.4	771.4	775.0	765.0	706.7	687.6	671.2	657.5	653.0
50°	2737.7	1353.3	752.3	746.8	747.7	730.4	674.9	662.1	641.2	632.0	625.7
52.5°	2675.7	1250.4	705.8	707.6	710.4	682.1	635.7	626.6	609.3	596.5	592.9
55°	2501.8	1090.1	660.3	667.6	674.9	621.1	606.5	583.8	570.1	551.9	552.8
57.5°	2204.0	877.9	596.5	608.4	623.9	564.7	553.7	525.5	505.5	490.9	489.1
60°	1477.2	624.8	500.9	505.5	540.1	516.4	515.5	487.2	459.9	447.2	439.9
62.5°	871.6	477.2	432.6	428.0	427.1	440.8	463.6	453.5	418.0	393.4	400.7
65°	456.3	412.6	402.5	387.1	378.0	374.3	391.6	396.2	372.5	346.1	344.3
67.5°	383.4	383.4	375.2	369.8	357.0	341.5	330.6	316.0	312.4	305.1	296.0
70°	348.8	357.9	355.2	342.4	331.5	314.2	286.0	262.3	239.5	231.3	236.8
72.5°	304.2	313.3	313.3	306.9	292.3	265.9	238.6	211.3	192.2	177.6	175.8
75°	234.1	238.6	249.5	242.3	223.1	206.7	178.5	150.3	132.1	118.4	115.7
77.5°	149.4	156.6	156.6	155.7	142.1	126.6	108.4	88.3	74.7	64.7	61.9
80°	99.3	103.8	107.5	103.8	94.7	82.9	69.2	55.6	45.5	37.3	35.5
82.5°	72.9	78.3	81.1	77.4	68.3	59.2	49.2	39.2	29.1	22.8	20.9
85°	28.2	29.1	32.8	39.2	38.3	37.3	30.1	21.9	16.4	11.8	10.9
87.5°	7.3	6.4	7.3	7.3	6.4	5.5	5.5	5.5	5.5	2.7	3.6
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)