

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: P452311

Luminaire Tested: **GALN-SA3B-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15621 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

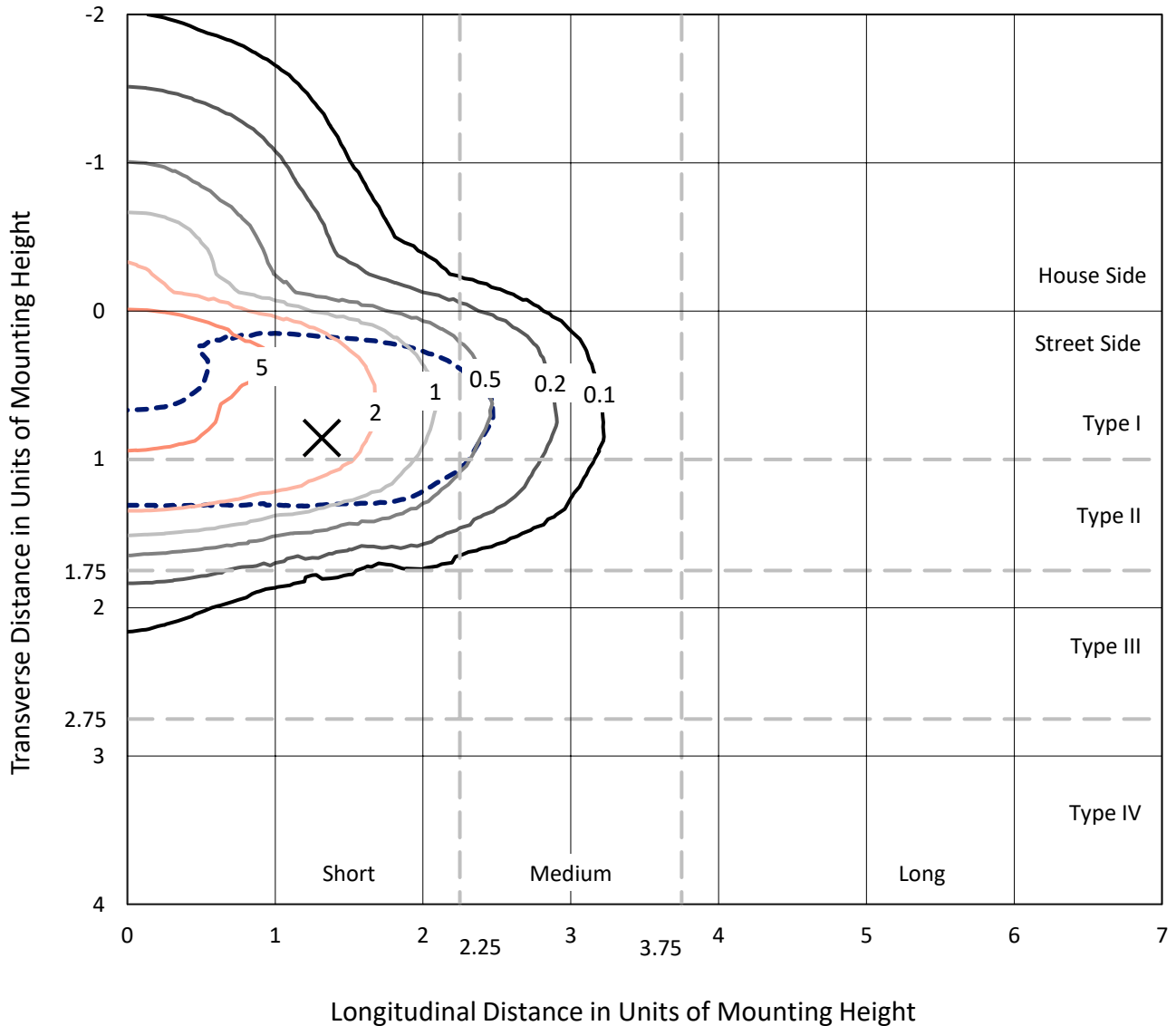
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452311  
 CATALOG NUMBER: GALN-SA3B-730-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

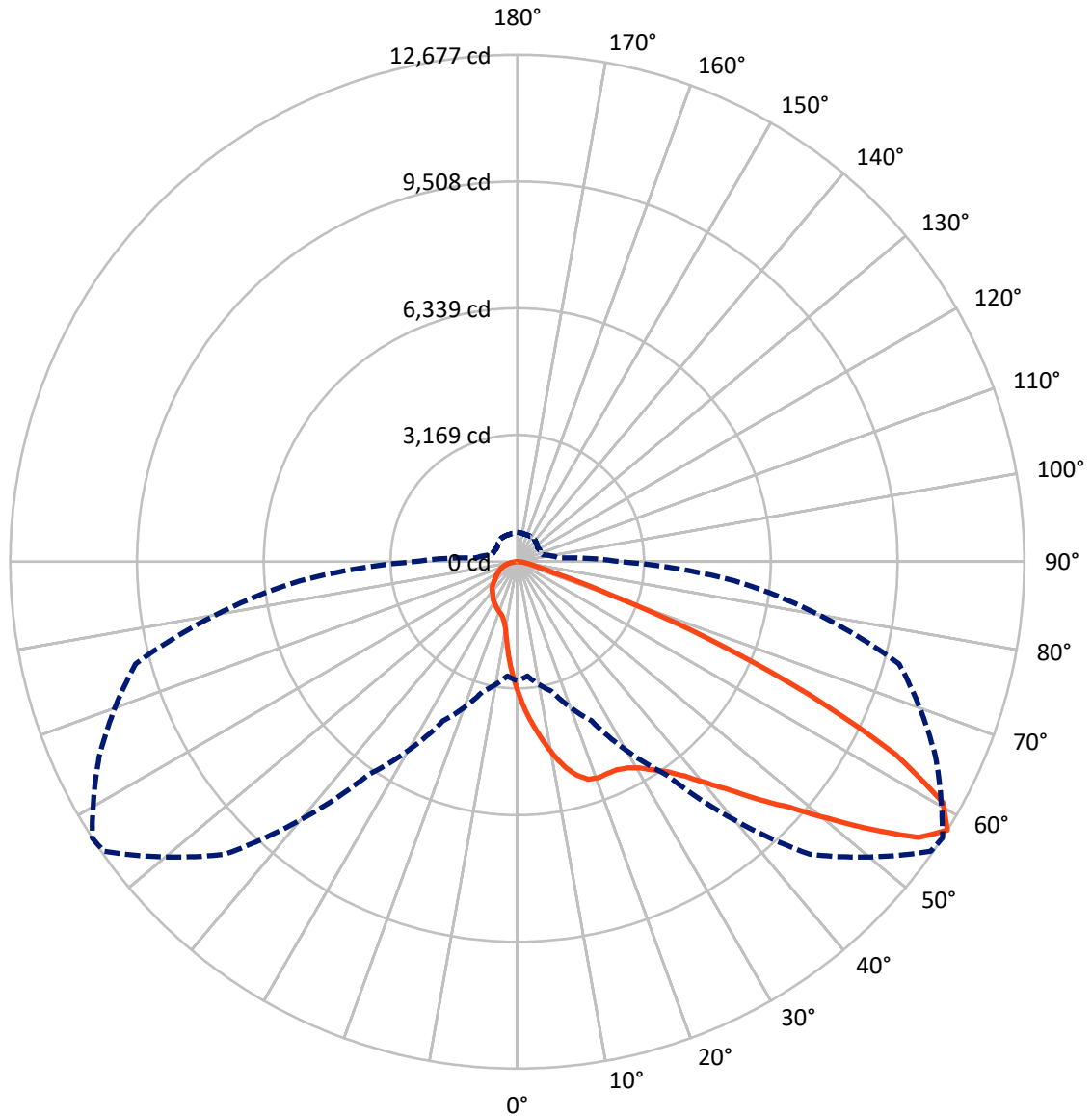
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

REPORT NUMBER: P452311  
CATALOG NUMBER: GALN-SA3B-730-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P452311

CATALOG NUMBER: GALN-SA3B-730-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2375.5	0.0	2375.5
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	13245.5	0.0	13245.5
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	15621.0	0.0	15621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.4	2.0
10°-20°	929.5	6.0
20°-30°	1543.5	9.9
30°-40°	2325.0	14.9
40°-50°	3490.7	22.3
50°-60°	3912.7	25.0
60°-70°	2289.9	14.7
70°-80°	677.3	4.3
80°-90°	136.9	0.9
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°	15621.0	100.0
0°-180°	15621.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452311

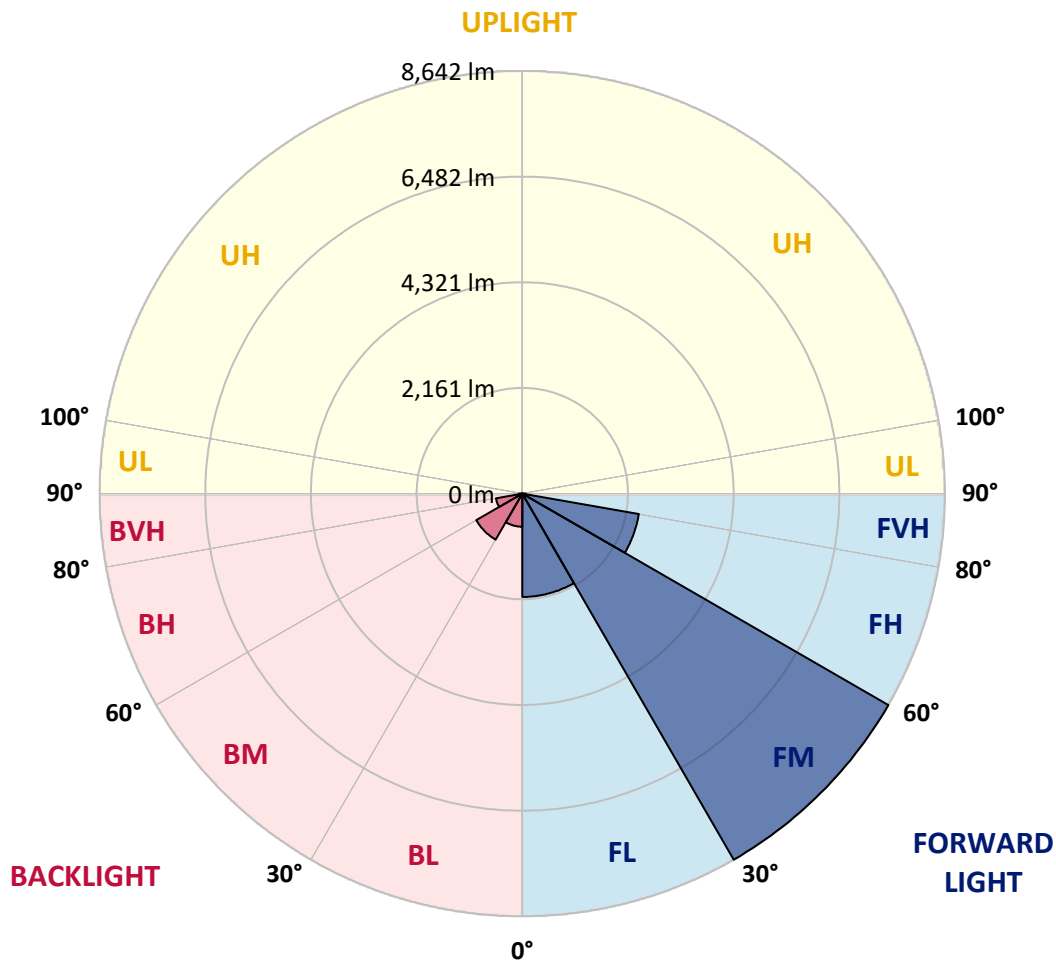
CATALOG NUMBER: GALN-SA3B-730-U-AFL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.6	13.5			
FM	(30°-60°)	8642.2	55.3			
FH	(60°-80°)	2420.6	15.5			G2/5000
FVH	(80°-90°)	71.0	0.5			G1/100
BL	(0°-30°)	676.9	4.3	B2/1000		
BM	(30°-60°)	1086.2	7.0	B2/2500		
BH	(60°-80°)	546.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	65.9	0.4			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: P452311

CATALOG NUMBER: GALN-SA3B-730-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8
2.5°	4077.9	4033.4	3998.3	3967.6	3927.4	3818.8	3710.2	3708.5	3622.1	3488.7	3351.9
5°	4742.3	4682.4	4690.1	4594.3	4498.6	4341.2	4111.2	4099.2	3915.4	3665.7	3411.8
7.5°	5174.9	5175.8	5151.9	5097.1	4993.7	4815.0	4554.2	4495.2	4239.5	3860.7	3480.2
10°	5152.7	5175.8	5216.0	5263.0	5294.6	5206.6	4968.9	4897.0	4564.4	4096.7	3556.3
12.5°	4856.8	4892.8	4950.1	5068.1	5258.7	5404.1	5322.9	5264.7	4940.6	4331.8	3640.1
15°	4672.2	4693.5	4725.2	4804.7	5009.9	5357.9	5568.3	5537.5	5295.5	4597.8	3734.1
17.5°	4615.7	4637.1	4647.4	4696.1	4842.3	5198.9	5664.9	5719.6	5610.2	4842.3	3829.0
20°	4672.2	4682.4	4682.4	4711.5	4826.1	5105.7	5660.6	5770.9	5868.4	5135.6	3918.0
22.5°	4820.1	4824.4	4818.4	4828.6	4914.1	5131.3	5620.4	5757.2	6077.0	5384.4	3987.2
25°	5060.4	5067.2	5027.9	5003.9	5066.3	5244.2	5642.7	5768.4	6240.4	5622.1	4033.4
27.5°	5333.1	5341.7	5293.8	5238.2	5267.3	5383.6	5729.9	5842.8	6362.6	5856.4	4062.5
30°	5667.5	5670.9	5590.5	5523.8	5505.0	5591.4	5878.7	5983.8	6514.8	6132.6	4106.1
32.5°	6009.5	6035.1	5931.7	5837.6	5806.0	5832.5	6098.4	6200.2	6696.1	6429.3	4176.2
35°	6474.7	6478.9	6354.9	6240.4	6136.0	6170.3	6379.7	6453.3	6946.7	6772.2	4275.4
37.5°	7055.3	7094.6	6923.6	6709.8	6581.5	6531.9	6720.1	6800.4	7298.1	7192.9	4425.0
40°	7700.0	7714.5	7568.3	7434.9	7200.6	7057.0	7186.9	7274.2	7731.6	7694.9	4598.6
42.5°	8105.3	8136.9	8148.0	8134.4	7958.2	7717.1	7766.7	7807.7	8244.7	8166.0	4776.5
45°	8242.1	8289.1	8448.2	8785.1	8803.9	8566.2	8450.7	8490.1	8803.9	8641.4	4946.6
47.5°	8015.5	8095.9	8389.2	9080.1	9597.4	9615.4	9267.3	9181.0	9313.5	9035.6	5069.8
50°	7429.8	7446.9	7895.8	8896.2	9969.4	10618.4	10258.4	10097.6	9797.5	9327.2	5154.4
52.5°	6523.4	6543.1	6919.3	8042.0	9740.2	11319.5	11417.9	11130.6	10289.2	9553.8	5210.0
55°	4842.3	4956.0	5369.9	6455.0	8654.3	11253.7	12339.6	12176.3	10883.4	9733.4	5297.2
57.5°	2977.4	2873.1	3363.9	4391.7	6508.9	10349.0	12624.4	12677.4	11537.6	9883.9	5443.4
60°	1369.8	1390.4	1593.0	2265.1	3967.6	8095.9	11890.7	12225.9	11899.3	9878.7	5480.2
62.5°	944.0	925.2	873.9	994.5	1809.3	5120.2	10043.8	10611.5	11174.2	9571.8	5334.0
65°	844.0	825.2	726.0	692.6	831.1	2231.8	7301.5	8018.1	9408.4	8797.1	4969.7
67.5°	788.4	762.7	660.1	595.1	593.4	888.4	4305.3	5168.1	6978.3	7437.5	4306.2
70°	730.2	709.7	608.0	536.1	505.4	558.4	1892.3	2477.2	4531.1	5359.6	3354.5
72.5°	672.1	648.1	556.7	479.7	439.5	418.1	725.1	943.2	2560.1	3213.4	2056.5
75°	587.4	575.5	497.7	434.4	390.8	337.8	460.0	525.0	1224.5	1475.9	1032.1
77.5°	513.9	501.1	442.1	379.7	348.0	274.5	326.6	356.6	516.5	598.6	466.0
80°	376.2	389.1	372.8	335.2	310.4	215.5	219.8	244.6	307.0	339.5	284.7
82.5°	238.6	262.5	287.3	258.2	235.1	170.2	152.2	161.6	209.5	222.3	126.6
85°	100.0	101.8	166.7	157.3	134.2	100.9	91.5	96.6	112.0	117.1	59.0
87.5°	38.5	37.6	59.0	54.7	41.9	29.1	29.1	32.5	44.5	41.0	18.8
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: P452311  
 CATALOG NUMBER: GALN-SA3B-730-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8	3281.8
2.5°	3292.9	3232.2	3111.6	2962.0	2852.5	2729.4	2620.8	2543.0	2513.9	2500.3	2474.6
5°	3290.3	3170.6	2920.9	2659.3	2448.9	2233.5	2051.3	1933.3	1923.1	1844.4	1836.7
7.5°	3291.2	3108.2	2710.6	2325.8	2005.2	1784.5	1634.1	1594.7	1547.7	1535.7	1541.7
10°	3293.8	3028.7	2484.9	1995.8	1685.4	1540.9	1484.4	1469.0	1470.7	1475.9	1476.7
12.5°	3297.2	2951.7	2250.6	1745.2	1505.8	1445.9	1440.0	1453.6	1468.2	1479.3	1481.9
15°	3301.5	2863.7	2022.3	1543.4	1416.0	1410.9	1430.5	1453.6	1474.2	1490.4	1493.0
17.5°	3296.3	2761.1	1830.7	1419.4	1366.4	1391.2	1423.7	1452.8	1471.6	1487.0	1488.7
20°	3284.4	2646.5	1646.0	1332.2	1335.6	1375.8	1410.9	1438.2	1458.8	1466.5	1472.4
22.5°	3238.2	2509.7	1485.3	1264.7	1298.9	1354.4	1396.3	1412.6	1389.5	1373.3	1377.5
25°	3159.5	2331.8	1335.6	1209.9	1265.5	1324.5	1367.3	1327.9	1309.1	1302.3	1305.7
27.5°	3061.2	2136.8	1222.8	1152.6	1222.8	1291.2	1279.2	1272.4	1263.8	1252.7	1255.3
30°	2955.2	1946.2	1127.0	1108.2	1176.6	1215.9	1221.1	1232.2	1222.8	1205.7	1212.5
32.5°	2856.8	1766.6	1054.3	1070.6	1144.1	1138.1	1176.6	1189.4	1145.8	1088.5	1091.1
35°	2773.0	1599.9	999.6	1033.8	1088.5	1091.1	1129.6	1085.1	1038.1	1010.7	1012.4
37.5°	2709.7	1469.9	963.7	1002.2	1017.5	1050.0	1029.5	1006.4	1000.4	981.6	982.5
40°	2672.1	1356.2	940.6	977.4	974.8	997.0	931.2	954.3	962.8	956.8	957.7
42.5°	2634.5	1275.8	916.6	943.2	942.3	898.7	884.2	903.8	926.1	928.6	926.9
45°	2604.6	1213.4	891.8	891.0	908.1	839.7	835.4	847.4	879.0	894.4	893.6
47.5°	2571.2	1161.2	854.2	830.3	835.4	802.9	796.1	801.2	839.7	864.5	871.3
50°	2529.3	1109.0	807.2	774.7	753.3	768.7	770.4	771.3	809.8	838.0	844.0
52.5°	2496.0	1069.7	753.3	729.4	703.7	737.9	750.8	752.5	775.6	798.6	802.9
55°	2515.6	1047.5	700.3	683.2	660.1	706.3	731.1	734.5	739.6	756.7	759.3
57.5°	2574.6	1052.6	657.6	635.3	618.2	668.7	710.6	713.1	709.7	730.2	733.7
60°	2592.6	1050.0	625.9	582.3	572.0	628.5	680.6	685.8	684.9	714.8	720.8
62.5°	2517.4	1017.5	594.3	537.8	531.0	587.4	638.7	659.3	663.5	706.3	714.0
65°	2340.4	950.8	552.4	490.8	490.8	543.8	598.6	626.8	638.7	696.0	704.6
67.5°	2106.9	872.2	509.6	450.6	448.9	501.9	555.8	584.9	603.7	681.5	686.6
70°	1748.6	766.2	456.6	407.0	407.0	454.9	503.6	538.7	566.1	654.1	654.1
72.5°	1198.0	637.0	392.5	357.4	358.3	402.7	452.3	491.7	524.2	599.4	601.1
75°	757.6	497.7	322.4	304.4	307.8	349.7	401.0	442.1	507.1	592.6	595.1
77.5°	402.7	349.7	256.5	252.2	256.5	295.0	352.3	408.7	508.8	513.9	505.4
80°	260.8	248.0	202.7	194.1	195.8	237.7	313.8	388.2	408.7	413.9	395.0
82.5°	141.9	157.3	143.7	135.1	135.1	185.6	267.6	308.7	293.3	243.7	232.6
85°	60.7	73.5	74.4	65.0	62.4	114.6	179.6	168.5	156.5	149.6	147.9
87.5°	17.1	23.9	23.9	18.0	13.7	31.6	35.9	10.3	0.0	0.9	1.7
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)