

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: P452443

Luminaire Tested: **GALN-SA3B-827-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452443  
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-SA3B-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12726 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

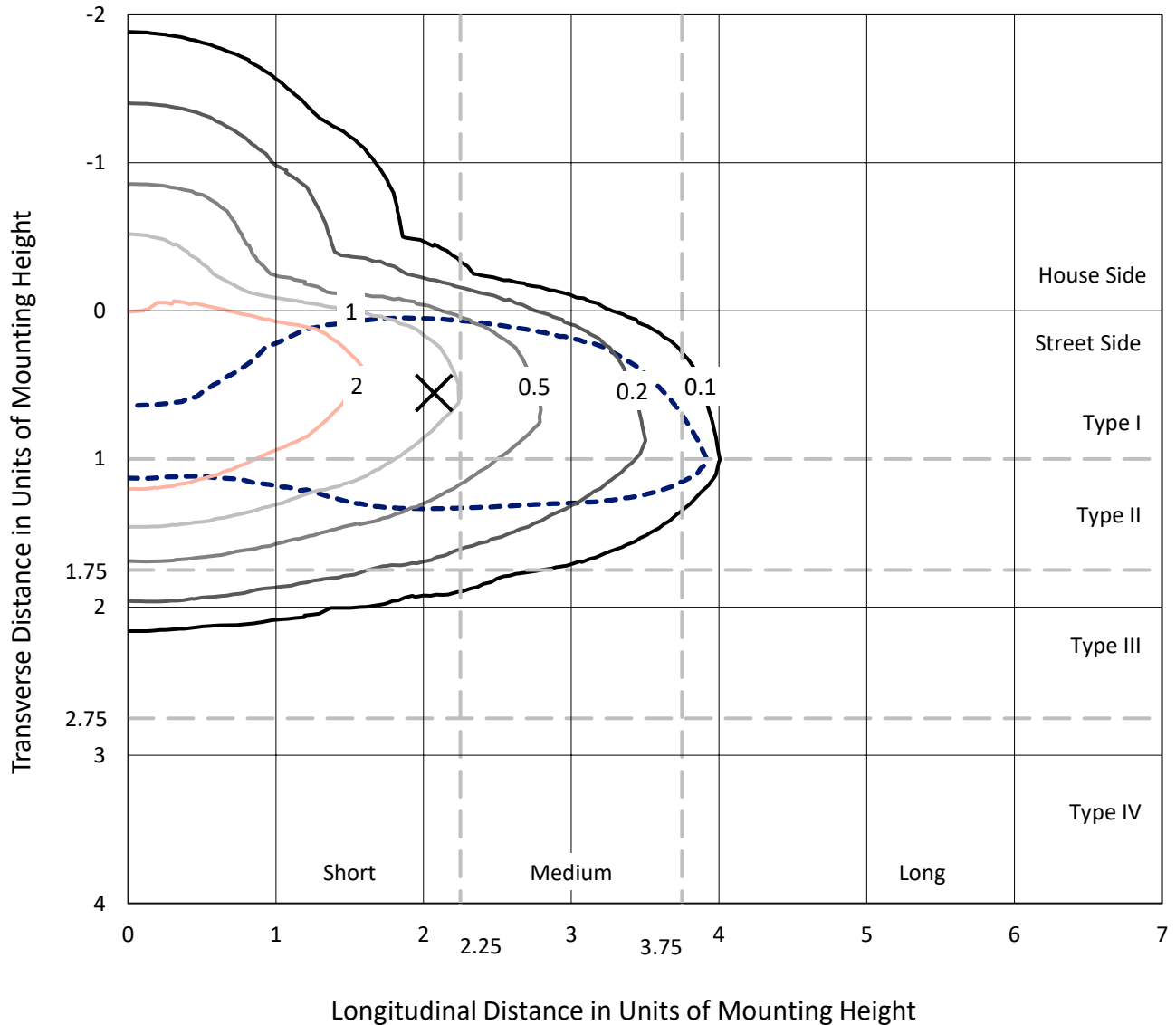
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

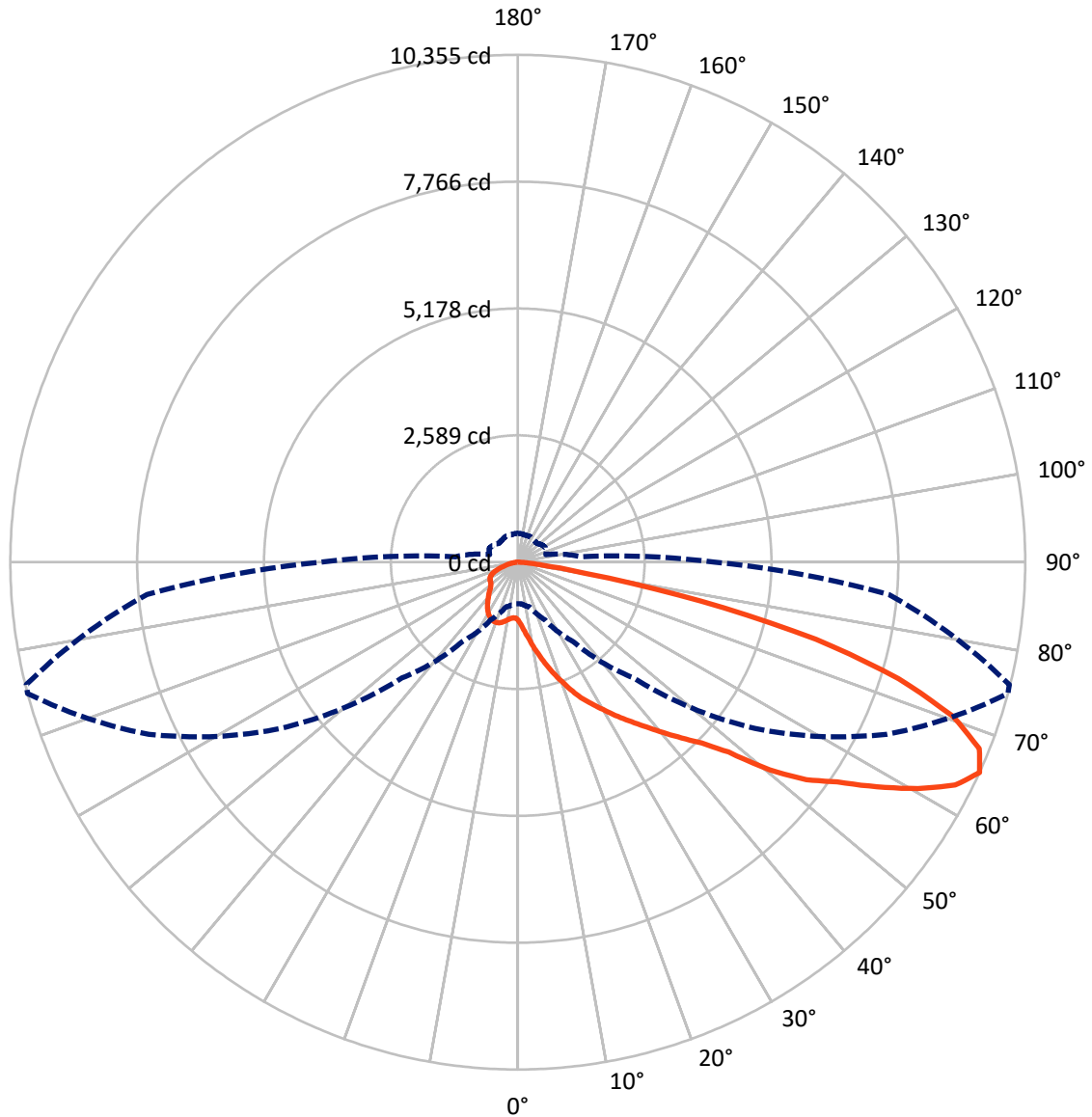
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2139.4	0.0	2139.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	10586.6	0.0	10586.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	12726.0	0.0	12726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.7	1.1
10°-20°	562.7	4.4
20°-30°	1086.9	8.5
30°-40°	1765.5	13.9
40°-50°	2428.6	19.1
50°-60°	2867.4	22.5
60°-70°	2512.3	19.7
70°-80°	1199.4	9.4
80°-90°	159.6	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°	12726.0	100.0
0°-180°	12726.0	100.0

**Coefficient of Utilization**



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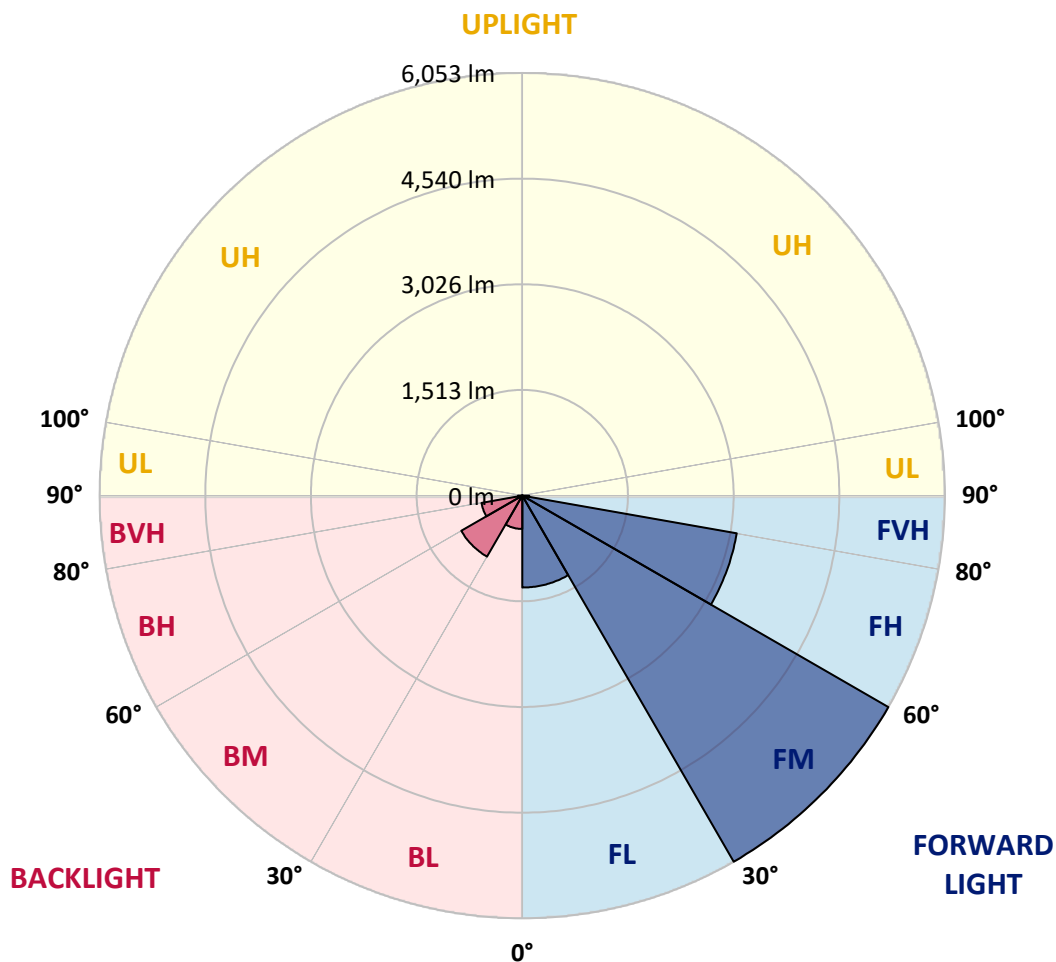
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.7	10.3			
FM	(30°-60°)	6052.8	47.6			
FH	(60°-80°)	3118.4	24.5			G2/5000
FVH	(80°-90°)	99.7	0.8			G1/100
BL	(0°-30°)	477.6	3.8	B1/500		
BM	(30°-60°)	1008.7	7.9	B2/2500		
BH	(60°-80°)	593.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	59.9	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°	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4
2.5°	1571.0	1560.7	1549.6	1519.3	1486.8	1450.2	1397.8	1347.4	1280.4	1278.4	1228.7
5°	2006.6	1999.7	1950.7	1922.4	1847.1	1747.0	1662.1	1530.3	1408.1	1393.6	1297.0
7.5°	2406.9	2380.0	2361.4	2310.3	2235.7	2107.3	1943.1	1765.0	1560.7	1541.3	1381.2
10°	2708.6	2705.8	2696.1	2652.0	2596.0	2468.4	2286.1	2030.7	1753.9	1716.0	1483.4
12.5°	2934.3	2936.3	2935.0	2934.3	2894.2	2785.9	2588.5	2319.3	1949.3	1922.4	1601.4
15°	3082.7	3103.4	3111.7	3146.2	3149.6	3077.2	2907.4	2598.1	2169.5	2129.4	1728.4
17.5°	3180.7	3191.0	3229.7	3288.4	3336.0	3322.9	3171.7	2856.3	2394.5	2327.5	1860.2
20°	3274.6	3292.5	3322.2	3402.3	3486.5	3525.1	3418.8	3120.6	2617.4	2574.6	2005.9
22.5°	3469.9	3495.4	3505.8	3546.5	3618.3	3686.6	3638.3	3374.0	2861.8	2803.8	2160.5
25°	3800.5	3827.5	3798.5	3788.8	3812.3	3846.1	3835.7	3612.8	3092.3	3009.5	2306.8
27.5°	4231.3	4234.7	4178.1	4124.3	4066.3	4049.0	4017.3	3824.7	3292.5	3223.5	2453.9
30°	4693.7	4677.2	4583.3	4486.0	4387.9	4291.3	4200.2	4029.0	3515.5	3436.1	2598.1
32.5°	5123.1	5114.1	5009.9	4858.7	4693.0	4601.9	4417.6	4235.4	3754.3	3677.7	2746.5
35°	5444.7	5457.8	5343.3	5178.3	4997.4	4916.7	4684.1	4452.1	4001.4	3917.9	2908.0
37.5°	5673.2	5666.3	5564.8	5421.9	5263.2	5192.8	4995.4	4688.9	4267.2	4187.1	3084.7
40°	5754.7	5750.5	5675.3	5571.0	5470.3	5445.4	5321.2	4944.3	4571.6	4477.7	3297.3
42.5°	5702.9	5711.9	5662.2	5633.9	5615.2	5633.2	5644.9	5279.1	4903.6	4817.3	3527.9
45°	5544.1	5539.3	5532.4	5578.6	5683.6	5801.6	5965.2	5595.2	5264.6	5195.5	3837.1
47.5°	5260.4	5294.9	5312.2	5439.9	5669.1	5948.6	6333.8	6019.0	5788.5	5728.4	4308.6
50°	4863.5	4891.1	4993.3	5220.4	5562.1	6003.8	6694.1	6712.0	6662.3	6549.8	4820.7
52.5°	4243.7	4286.5	4497.0	4913.2	5342.6	5981.1	6912.2	7306.3	7371.9	7287.7	5325.3
55°	3550.0	3610.0	3832.3	4378.3	5040.2	5856.8	7062.7	7650.8	7912.4	7834.4	5811.3
57.5°	2870.8	2934.3	3162.7	3691.5	4512.9	5582.1	7161.4	8034.6	8648.2	8546.7	6415.9
60°	2151.5	2217.8	2413.8	2958.4	3761.9	5045.1	7094.4	8367.3	9383.3	9339.8	7021.3
62.5°	1388.1	1461.3	1631.8	2082.5	2891.5	4311.3	6736.2	8550.9	10019.7	9967.3	7463.0
65°	845.6	853.8	947.7	1292.8	1979.0	3338.1	5916.9	8307.2	10355.2	10339.3	7597.6
67.5°	546.7	559.8	602.6	774.5	1186.5	2318.6	4731.0	7503.1	10159.2	10153.6	7319.5
70°	461.8	465.9	485.2	522.5	689.6	1406.0	3322.2	6221.3	9414.4	9414.4	6650.6
72.5°	412.8	418.3	425.2	436.9	492.2	796.6	1982.4	4842.8	8128.4	8182.3	5660.8
75°	374.8	373.4	377.6	379.6	419.7	520.5	1025.0	3581.7	6288.2	6180.5	4099.4
77.5°	321.0	323.0	321.0	329.9	370.7	396.2	520.5	2403.5	3810.9	3671.5	2057.6
80°	263.7	267.1	270.6	276.1	316.8	301.0	312.7	1095.4	1409.5	1379.8	635.7
82.5°	198.1	202.9	208.5	221.6	249.2	198.8	197.4	468.0	508.7	465.9	234.0
85°	80.1	94.6	142.9	156.0	156.7	109.1	121.5	195.3	207.8	202.9	91.8
87.5°	18.6	22.1	46.2	69.7	64.2	40.7	44.9	63.5	72.5	67.0	31.1
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°	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4	1182.4
2.5°	1205.9	1181.7	1140.3	1108.5	1085.8	1065.8	1053.3	1045.7	1043.0	1042.3	1043.0
5°	1246.6	1203.8	1138.2	1096.8	1074.0	1060.9	1053.3	1052.6	1053.3	1054.0	1051.9
7.5°	1302.5	1241.1	1155.5	1116.8	1099.6	1089.9	1086.5	1085.1	1085.8	1085.1	1085.1
10°	1377.1	1292.8	1189.3	1149.3	1134.8	1123.7	1118.2	1114.8	1112.0	1109.2	1107.9
12.5°	1459.2	1350.1	1225.9	1187.2	1166.5	1149.3	1136.8	1127.9	1121.7	1115.5	1114.1
15°	1551.0	1410.9	1266.6	1212.8	1183.1	1157.6	1136.2	1121.7	1110.6	1101.6	1101.0
17.5°	1638.7	1468.2	1294.2	1224.5	1181.0	1145.1	1116.8	1096.8	1083.0	1071.3	1069.9
20°	1732.5	1522.7	1306.7	1216.9	1160.3	1116.8	1079.6	1055.4	1039.5	1026.4	1024.3
22.5°	1827.1	1568.9	1305.3	1192.8	1124.4	1073.3	1034.0	1008.5	989.8	976.7	971.9
25°	1917.5	1606.2	1288.0	1154.1	1074.7	1021.6	981.5	958.1	941.5	925.6	925.6
27.5°	1999.0	1628.3	1255.6	1107.2	1023.6	967.7	936.0	914.6	899.4	889.0	882.8
30°	2079.0	1638.7	1211.4	1047.8	969.8	922.2	896.6	884.2	870.4	858.7	857.3
32.5°	2150.8	1636.6	1156.2	989.8	918.7	884.9	874.6	864.9	850.4	833.8	829.7
35°	2220.5	1622.8	1090.6	926.3	875.9	862.8	865.6	851.8	825.5	804.8	801.4
37.5°	2296.5	1597.9	1018.8	874.6	840.0	852.5	859.4	829.0	786.2	753.8	746.2
40°	2384.1	1569.6	944.3	822.8	811.7	842.8	842.8	786.9	728.2	708.2	702.7
42.5°	2487.0	1546.2	882.1	779.3	788.3	819.3	815.9	731.0	706.8	696.5	693.7
45°	2649.9	1537.9	818.0	741.3	768.9	791.7	763.4	711.7	697.8	689.6	686.8
47.5°	2907.4	1547.6	761.4	713.0	746.9	764.1	704.7	698.5	688.9	677.1	675.8
50°	3146.2	1538.6	721.3	697.2	727.5	731.0	680.6	682.7	677.1	664.0	661.3
52.5°	3341.5	1510.3	695.8	688.9	711.0	673.0	657.8	665.4	663.3	646.8	644.0
55°	3556.2	1493.0	683.4	688.9	699.9	622.6	636.4	647.5	644.7	633.0	632.3
57.5°	3816.4	1496.5	674.4	690.9	688.9	597.1	615.0	628.1	627.4	624.0	624.0
60°	4082.9	1497.9	660.6	690.3	675.8	577.1	592.9	611.6	612.9	615.0	615.0
62.5°	4171.2	1437.8	633.7	677.8	646.8	557.7	572.2	597.8	596.4	601.9	602.6
65°	4006.2	1271.4	593.6	649.5	609.5	543.9	556.3	579.8	572.2	586.7	589.5
67.5°	3646.6	1051.9	531.5	598.5	568.1	529.4	546.0	555.0	541.2	569.5	570.2
70°	3151.7	821.4	452.8	526.0	521.1	514.2	537.7	523.9	504.6	539.1	532.2
72.5°	2635.4	627.4	361.7	430.0	458.3	491.5	523.2	483.9	456.9	467.3	454.9
75°	1979.7	463.9	290.6	336.8	381.7	459.0	510.1	435.6	394.1	384.5	381.7
77.5°	1009.2	303.0	217.4	251.9	286.5	414.8	492.2	378.9	326.5	311.3	304.4
80°	360.3	188.4	153.2	173.9	193.3	356.9	430.0	313.4	253.3	250.6	253.3
82.5°	167.0	121.5	102.8	113.9	114.6	238.1	327.9	234.0	192.6	292.7	247.1
85°	71.8	60.7	58.0	56.6	52.5	106.3	184.3	125.6	196.0	87.7	80.8
87.5°	21.4	24.2	21.4	15.9	11.7	11.7	18.6	6.9	4.8	3.5	3.5
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)