

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: P452514

Luminaire Tested: **GALN-SA3C-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452514  
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-SA3C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17724 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

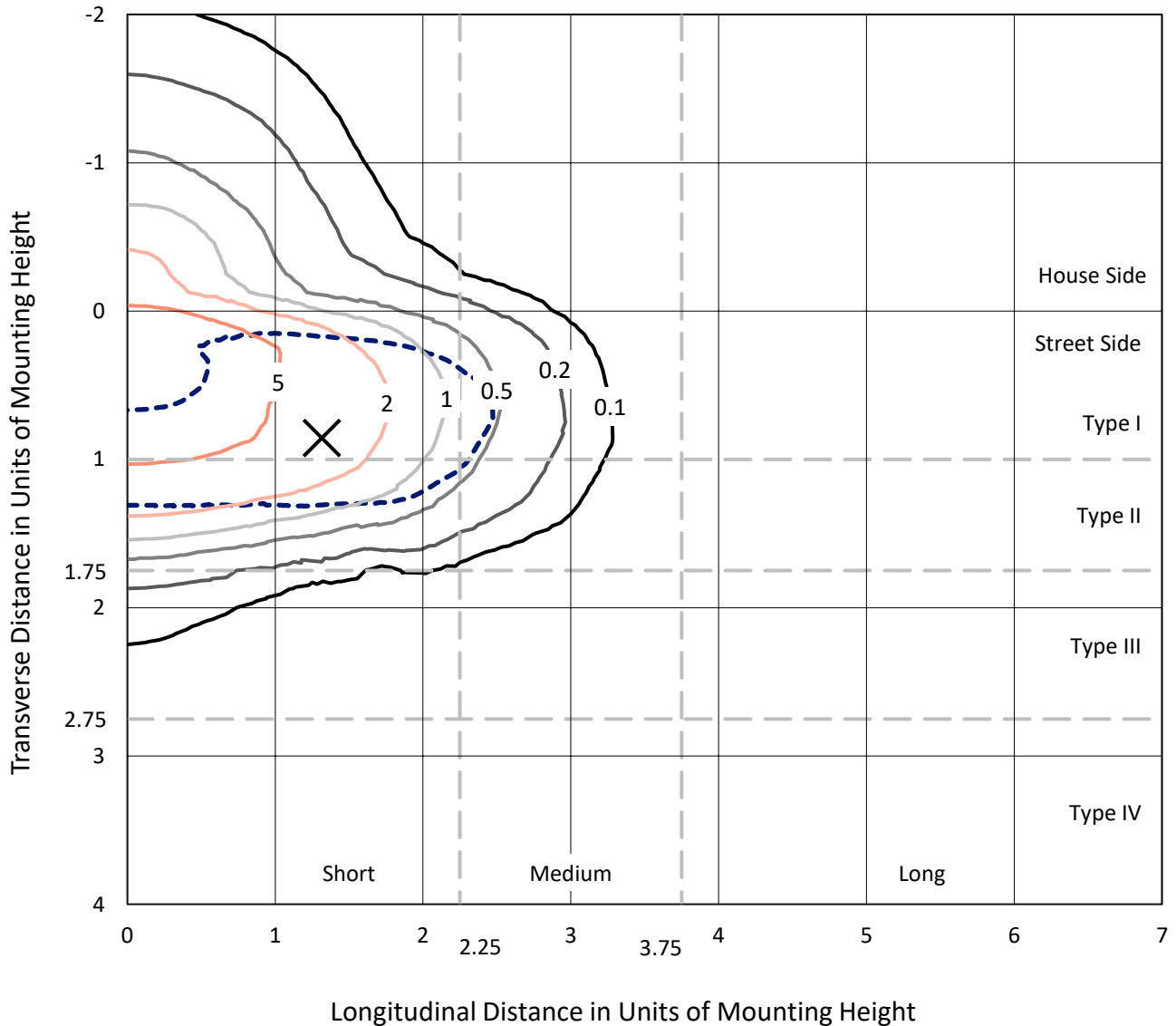
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

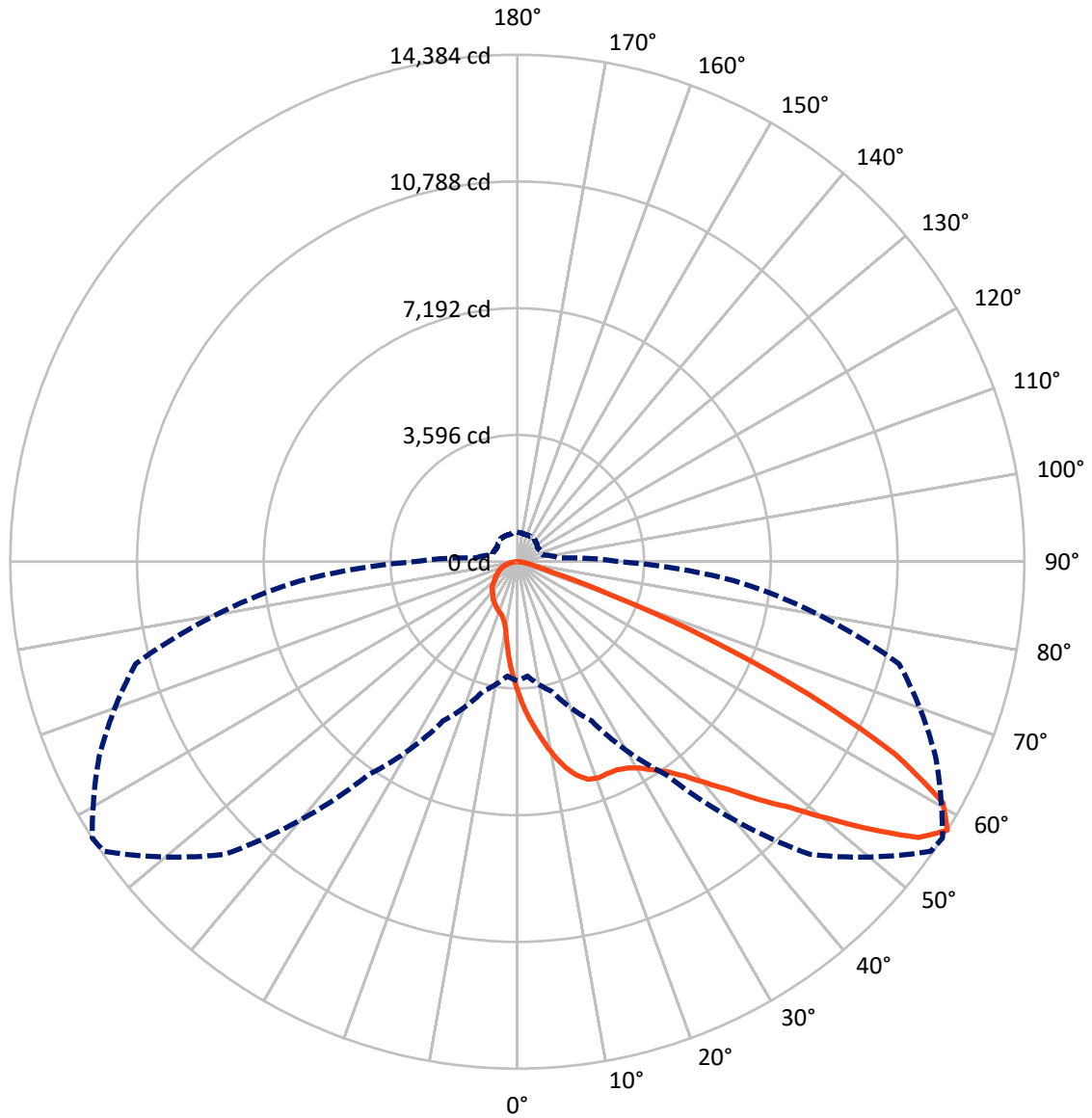
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2695.3	0.0	2695.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	15028.7	0.0	15028.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	17724.0	0.0	17724.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.9	2.0
10°-20°	1054.7	6.0
20°-30°	1751.3	9.9
30°-40°	2638.0	14.9
40°-50°	3960.7	22.3
50°-60°	4439.4	25.0
60°-70°	2598.2	14.7
70°-80°	768.5	4.3
80°-90°	155.3	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°	17724.0	100.0
0°-180°	17724.0	100.0

**Coefficient of Utilization**



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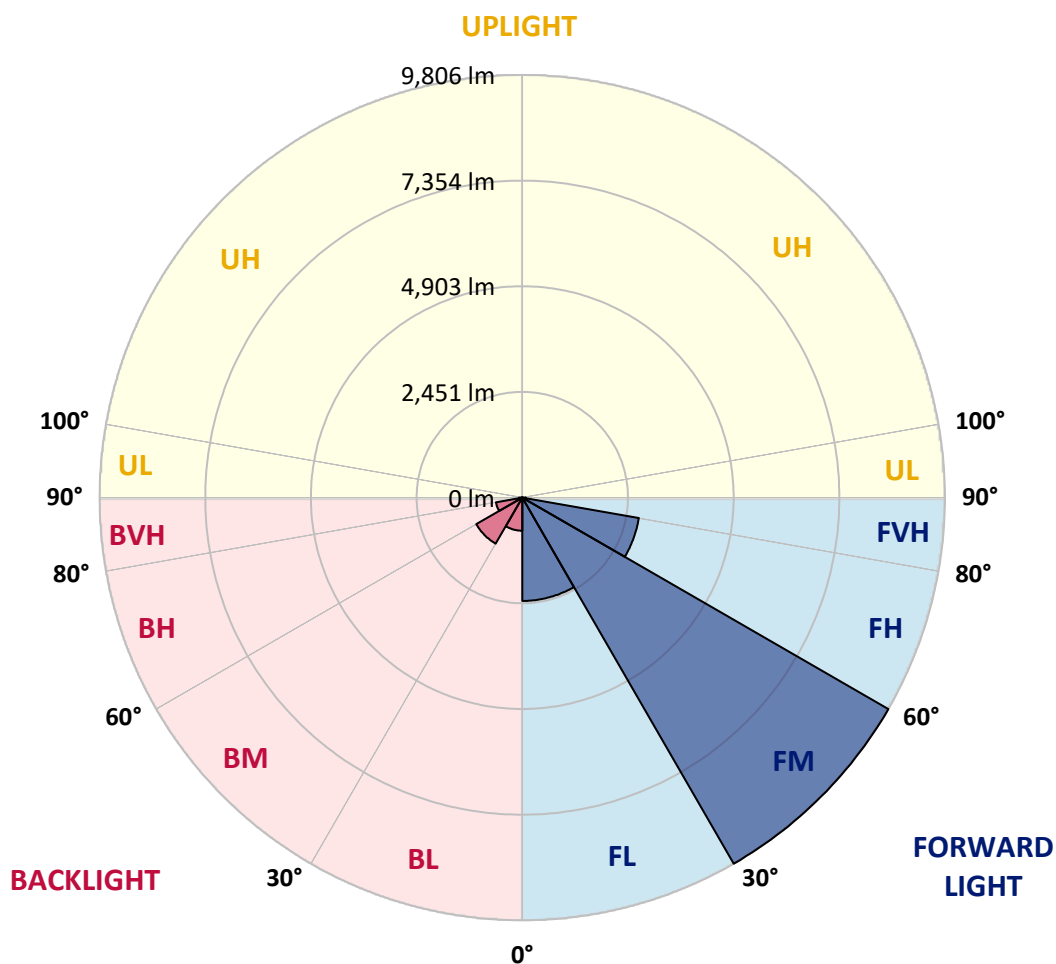
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2395.9	13.5			
FM	(30°-60°)	9805.7	55.3			
FH	(60°-80°)	2746.5	15.5			G2/5000
FVH	(80°-90°)	80.6	0.5			G1/100
BL	(0°-30°)	768.0	4.3	B2/1000		
BM	(30°-60°)	1232.4	7.0	B2/2500		
BH	(60°-80°)	620.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	74.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6
2.5°	4626.9	4576.4	4536.6	4501.7	4456.1	4332.9	4209.7	4207.7	4109.7	3958.4	3803.2
5°	5380.7	5312.8	5321.5	5212.9	5104.2	4925.7	4664.7	4651.1	4442.5	4159.2	3871.1
7.5°	5871.6	5872.6	5845.4	5783.3	5665.9	5463.2	5167.3	5100.3	4810.2	4380.4	3948.7
10°	5846.4	5872.6	5918.2	5971.6	6007.4	5907.5	5637.8	5556.3	5178.9	4648.2	4035.0
12.5°	5510.7	5551.5	5616.5	5750.3	5966.7	6131.6	6039.5	5973.5	5605.8	4915.0	4130.1
15°	5301.1	5325.4	5361.3	5451.5	5684.4	6079.2	6317.9	6283.0	6008.4	5216.7	4236.8
17.5°	5237.1	5261.4	5273.0	5328.3	5494.2	5898.8	6427.5	6489.6	6365.5	5494.2	4344.5
20°	5301.1	5312.8	5312.8	5345.8	5475.8	5793.0	6422.7	6547.8	6658.5	5827.0	4445.4
22.5°	5469.0	5473.8	5467.1	5478.7	5575.7	5822.1	6377.1	6532.3	6895.2	6109.3	4524.0
25°	5741.6	5749.4	5704.7	5677.6	5748.4	5950.2	6402.3	6544.9	7080.5	6379.0	4576.4
27.5°	6051.1	6060.8	6006.5	5943.4	5976.4	6108.3	6501.3	6629.3	7219.2	6644.9	4609.4
30°	6430.5	6434.3	6343.1	6267.5	6246.1	6344.1	6670.1	6789.4	7391.9	6958.2	4658.9
32.5°	6818.5	6847.6	6730.2	6623.5	6587.6	6617.7	6919.4	7034.9	7597.6	7294.9	4738.4
35°	7346.3	7351.2	7210.5	7080.5	6962.1	7000.9	7238.6	7322.1	7881.9	7683.9	4851.0
37.5°	8005.1	8049.7	7855.7	7613.1	7467.6	7411.3	7624.8	7716.0	8280.6	8161.3	5020.8
40°	8736.6	8753.1	8587.2	8435.8	8170.0	8007.0	8154.5	8253.5	8772.5	8730.8	5217.7
42.5°	9196.5	9232.4	9245.0	9229.5	9029.6	8756.0	8812.3	8858.9	9354.6	9265.4	5419.5
45°	9351.7	9405.1	9585.5	9967.8	9989.1	9719.4	9588.4	9633.1	9989.1	9804.8	5612.6
47.5°	9094.6	9185.8	9518.6	10302.5	10889.5	10909.8	10515.0	10417.0	10567.4	10252.1	5752.3
50°	8430.0	8449.4	8958.8	10093.9	11311.5	12047.9	11639.4	11457.0	11116.5	10582.9	5848.3
52.5°	7401.6	7423.9	7850.8	9124.7	11051.5	12843.4	12955.0	12629.0	11674.4	10840.0	5911.4
55°	5494.2	5623.3	6092.8	7324.0	9819.3	12768.7	14000.9	13815.6	12348.6	11043.7	6010.4
57.5°	3378.2	3259.9	3816.7	4982.9	7385.1	11742.3	14324.0	14384.1	13090.8	11214.5	6176.3
60°	1554.3	1577.5	1807.5	2570.0	4501.7	9185.8	13491.5	13871.9	13501.2	11208.7	6218.0
62.5°	1071.1	1049.8	991.5	1128.3	2052.9	5809.5	11395.9	12040.1	12678.5	10860.4	6052.1
65°	957.6	936.2	823.7	785.9	943.0	2532.2	8284.5	9097.5	10675.1	9981.4	5638.8
67.5°	894.5	865.4	749.0	675.3	673.3	1008.0	4884.9	5863.9	7917.8	8438.8	4885.9
70°	828.5	805.3	689.8	608.3	573.4	633.5	2147.0	2810.7	5141.1	6081.2	3806.1
72.5°	762.6	735.4	631.6	544.3	498.7	474.4	822.7	1070.1	2904.8	3646.0	2333.3
75°	666.5	652.9	564.7	492.9	443.4	383.2	522.0	595.7	1389.3	1674.6	1171.0
77.5°	583.1	568.5	501.6	430.8	394.9	311.4	370.6	404.6	586.0	679.1	528.8
80°	426.9	441.4	423.0	380.3	352.2	244.5	249.3	277.5	348.3	385.2	323.1
82.5°	270.7	297.8	326.0	293.0	266.8	193.1	172.7	183.4	237.7	252.3	143.6
85°	113.5	115.5	189.2	178.5	152.3	114.5	103.8	109.6	127.1	132.9	66.9
87.5°	43.7	42.7	66.9	62.1	47.5	33.0	33.0	36.9	50.5	46.6	21.3
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°	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6	3723.6
2.5°	3736.2	3667.3	3530.5	3360.8	3236.6	3096.9	2973.6	2885.4	2852.4	2836.9	2807.7
5°	3733.3	3597.5	3314.2	3017.3	2778.6	2534.2	2327.5	2193.6	2182.0	2092.7	2084.0
7.5°	3734.3	3526.7	3075.5	2638.9	2275.1	2024.8	1854.0	1809.4	1756.1	1742.5	1749.3
10°	3737.2	3436.4	2819.4	2264.4	1912.3	1748.3	1684.3	1666.8	1668.7	1674.6	1675.5
12.5°	3741.1	3349.1	2553.6	1980.2	1708.5	1640.6	1633.8	1649.3	1665.8	1678.4	1681.3
15°	3745.9	3249.2	2294.5	1751.2	1606.6	1600.8	1623.1	1649.3	1672.6	1691.1	1694.0
17.5°	3740.1	3132.8	2077.2	1610.5	1550.4	1578.5	1615.4	1648.4	1669.7	1687.2	1689.1
20°	3726.5	3002.8	1867.6	1511.6	1515.4	1561.0	1600.8	1631.9	1655.2	1663.9	1670.7
22.5°	3674.1	2847.5	1685.2	1434.9	1473.7	1536.8	1584.3	1602.8	1576.6	1558.1	1563.0
25°	3584.9	2645.7	1515.4	1372.8	1435.9	1502.8	1551.3	1506.7	1485.4	1477.6	1481.5
27.5°	3473.3	2424.5	1387.4	1307.8	1387.4	1465.0	1451.4	1443.7	1433.9	1421.3	1424.2
30°	3353.0	2208.2	1278.7	1257.4	1335.0	1379.6	1385.4	1398.1	1387.4	1368.0	1375.7
32.5°	3241.4	2004.4	1196.3	1214.7	1298.1	1291.3	1335.0	1349.5	1300.1	1235.1	1238.0
35°	3146.3	1815.2	1134.2	1173.0	1235.1	1238.0	1281.6	1231.2	1177.8	1146.8	1148.7
37.5°	3074.5	1667.8	1093.4	1137.1	1154.5	1191.4	1168.1	1141.9	1135.1	1113.8	1114.8
40°	3031.9	1538.7	1067.2	1108.9	1106.0	1131.2	1056.5	1082.7	1092.4	1085.6	1086.6
42.5°	2989.2	1447.5	1040.0	1070.1	1069.2	1019.7	1003.2	1025.5	1050.7	1053.6	1051.7
45°	2955.2	1376.7	1011.9	1010.9	1030.3	952.7	947.9	961.5	997.4	1014.8	1013.9
47.5°	2917.4	1317.5	969.2	942.1	947.9	911.0	903.3	909.1	952.7	980.9	988.6
50°	2869.8	1258.3	915.9	879.0	854.7	872.2	874.1	875.1	918.8	950.8	957.6
52.5°	2832.0	1213.7	854.7	827.6	798.5	837.3	851.8	853.8	880.0	906.2	911.0
55°	2854.3	1188.5	794.6	775.2	749.0	801.4	829.5	833.4	839.2	858.6	861.5
57.5°	2921.3	1194.3	746.1	720.9	701.5	758.7	806.2	809.1	805.3	828.5	832.4
60°	2941.6	1191.4	710.2	660.7	649.1	713.1	772.3	778.1	777.1	811.1	817.9
62.5°	2856.3	1154.5	674.3	610.3	602.5	666.5	724.7	748.0	752.9	801.4	810.1
65°	2655.4	1078.9	626.7	556.9	556.9	617.0	679.1	711.2	724.7	789.7	799.4
67.5°	2390.6	989.6	578.2	511.3	509.4	569.5	630.6	663.6	685.0	773.2	779.1
70°	1984.0	869.3	518.1	461.8	461.8	516.1	571.4	611.2	642.3	742.2	742.2
72.5°	1359.2	722.8	445.3	405.5	406.5	457.0	513.2	557.9	594.7	680.1	682.0
75°	859.6	564.7	365.8	345.4	349.3	396.8	455.0	501.6	575.3	672.3	675.3
77.5°	457.0	396.8	291.1	286.2	291.1	334.7	399.7	463.8	577.3	583.1	573.4
80°	295.9	281.4	229.9	220.2	222.2	269.7	356.1	440.5	463.8	469.6	448.2
82.5°	161.1	178.5	163.0	153.3	153.3	210.5	303.7	350.2	332.8	276.5	263.9
85°	68.9	83.4	84.4	73.7	70.8	130.0	203.7	191.1	177.5	169.8	167.8
87.5°	19.4	27.2	27.2	20.4	15.5	35.9	40.7	11.6	0.0	1.0	1.9
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)