

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: P527280

Luminaire Tested: **GALN-SA2B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527280  
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-SA2B-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA 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: 9367 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

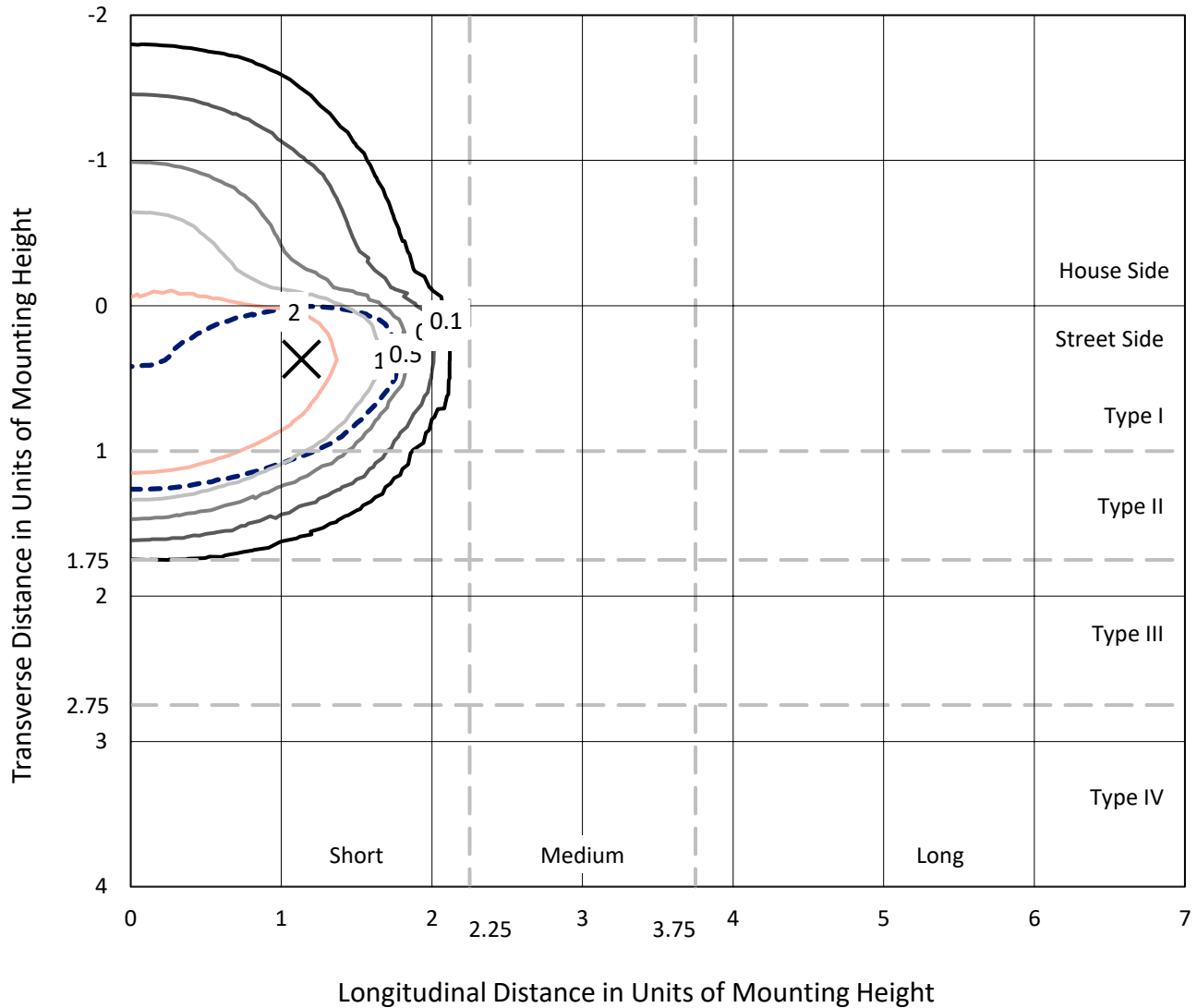
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

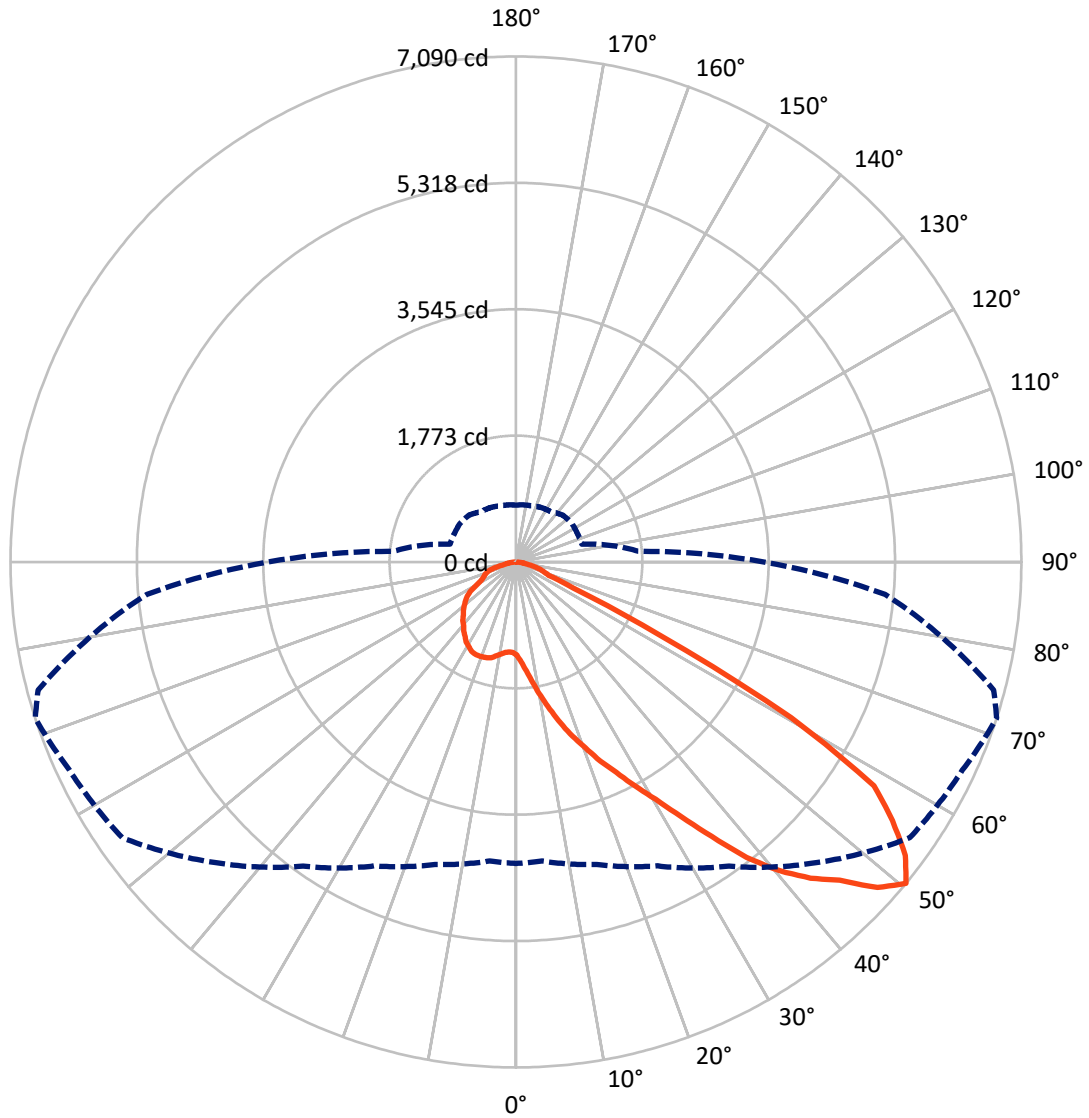
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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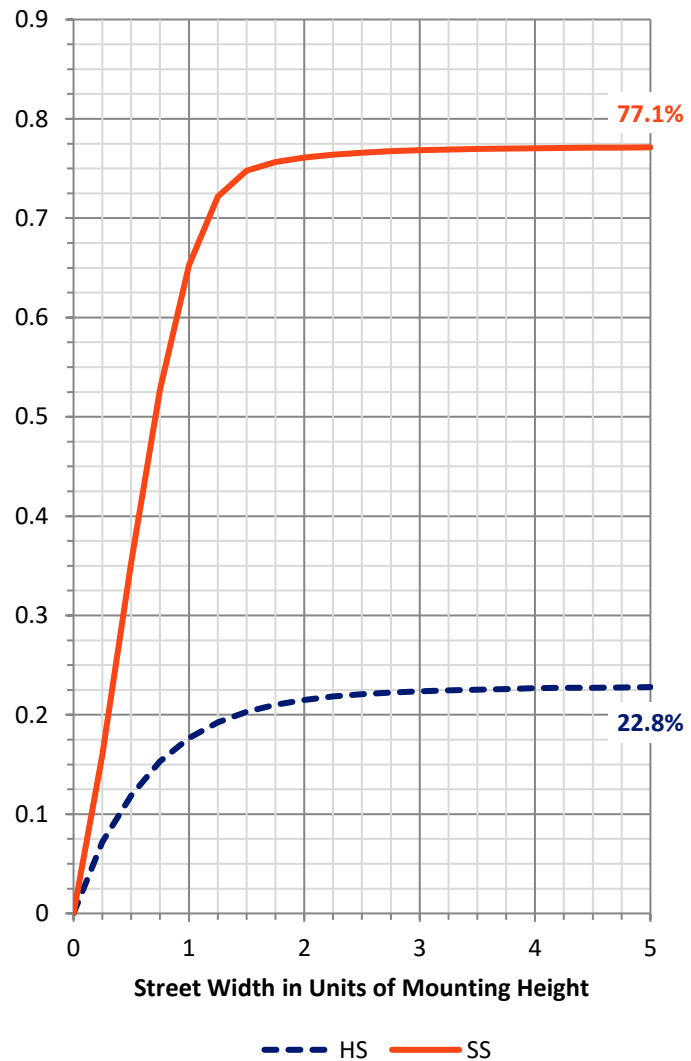
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2146.0	0.0	2146.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7221.0	0.0	7221.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9367.0	0.0	9367.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	1.6
10°-20°	573.4	6.1
20°-30°	1111.7	11.9
30°-40°	1841.8	19.7
40°-50°	2577.1	27.5
50°-60°	2174.1	23.2
60°-70°	662.7	7.1
70°-80°	232.5	2.5
80°-90°	40.4	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°	9367.0	100.0
0°-180°	9367.0	100.0

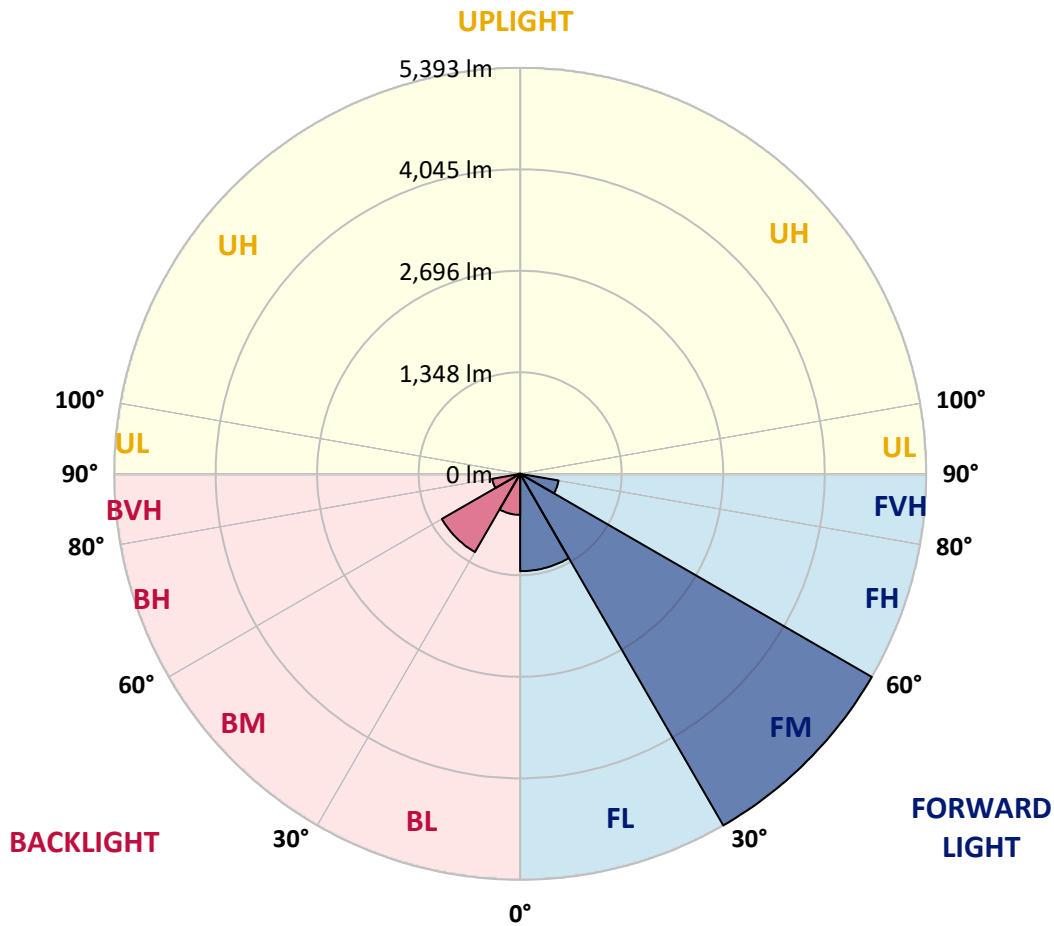


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.0	13.8			
FM (30°-60°)	5392.8	57.6			
FH (60°-80°)	517.0	5.5			G0/660
FVH (80°-90°)	18.1	0.2			G1/100
BL (0°-30°)	545.5	5.8	B2/1000		
BM (30°-60°)	1200.1	12.8	B2/2500		
BH (60°-80°)	378.1	4.0	B1/500		G1/500
BVH (80°-90°)	22.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0
2.5°	1677.2	1666.8	1635.5	1625.0	1587.9	1520.7	1497.5	1429.1	1400.2	1373.5	1342.2
5°	2121.1	2072.4	2069.0	2009.8	1924.1	1874.2	1725.9	1626.2	1534.6	1488.3	1402.5
7.5°	2403.9	2405.1	2405.1	2356.4	2288.0	2161.7	2028.4	1848.7	1710.8	1642.4	1496.4
10°	2672.8	2649.7	2636.9	2632.3	2585.9	2463.0	2320.5	2097.9	1909.0	1829.0	1567.1
12.5°	2862.9	2843.2	2872.2	2857.1	2823.5	2743.5	2609.1	2355.3	2118.8	2011.0	1680.7
15°	2953.3	2967.2	2990.4	3032.2	3017.1	2987.0	2838.6	2619.5	2344.8	2223.1	1781.5
17.5°	3092.4	3054.2	3082.0	3134.2	3175.9	3162.0	3077.4	2810.8	2568.5	2419.0	1917.1
20°	3189.8	3167.8	3181.7	3241.9	3273.2	3352.1	3308.0	3061.1	2783.0	2625.3	2077.1
22.5°	3468.0	3435.5	3390.3	3399.6	3411.2	3466.8	3477.2	3335.8	3032.2	2865.2	2228.9
25°	3811.1	3780.9	3727.6	3673.1	3639.5	3629.1	3665.0	3551.4	3270.9	3098.2	2392.3
27.5°	4188.9	4137.9	4104.3	3991.9	3901.5	3887.6	3870.2	3808.7	3553.7	3367.1	2576.6
30°	4556.3	4515.8	4470.6	4290.9	4197.0	4182.0	4096.2	4113.6	3860.9	3653.4	2785.3
32.5°	4834.5	4838.0	4734.8	4599.2	4511.1	4431.2	4399.9	4449.7	4255.0	4088.1	3018.2
35°	5059.4	5069.8	4971.3	4848.4	4753.4	4809.0	4795.1	4818.3	4725.6	4521.6	3289.5
37.5°	5278.5	5226.3	5120.8	5061.7	5011.9	5103.4	5221.7	5241.4	5258.8	5018.8	3604.7
40°	5314.4	5319.0	5257.6	5299.3	5236.7	5374.7	5649.4	5623.9	5694.6	5484.8	3946.7
42.5°	5263.4	5273.8	5298.2	5357.3	5508.0	5673.7	6081.7	5977.4	6063.2	5876.5	4279.3
45°	5179.9	5137.0	5167.2	5392.0	5652.8	6021.4	6476.9	6395.8	6368.0	6211.5	4675.7
47.5°	4781.2	4825.3	4919.1	5196.2	5587.9	6081.7	6757.4	6738.9	6822.4	6712.2	5036.2
50°	4228.3	4210.9	4391.8	4703.6	5208.9	5963.5	6742.4	6910.4	7090.1	6937.1	5197.3
52.5°	3166.6	3259.3	3414.7	3801.8	4522.7	5319.0	6413.2	6693.7	6839.7	6807.3	5067.5
55°	2001.7	2029.6	2123.4	2583.6	3232.7	4268.9	5497.5	6147.8	6408.6	6530.3	4948.1
57.5°	972.5	920.3	1035.1	1404.8	1867.3	2871.0	4239.9	5355.0	5921.7	6142.0	4688.5
60°	507.7	527.4	572.6	704.7	965.5	1490.6	2642.7	3568.8	4434.6	4773.1	3553.7
62.5°	420.7	427.7	457.8	523.9	642.1	857.7	1349.2	1739.8	2261.4	2566.2	2021.4
65°	357.0	360.5	392.9	437.0	512.3	603.9	694.3	726.7	879.7	902.9	718.6
67.5°	297.9	301.4	336.1	377.9	426.5	450.9	474.1	471.7	489.1	482.2	481.0
70°	229.5	233.0	268.9	313.0	337.3	323.4	395.2	411.5	418.4	424.2	433.5
72.5°	165.7	172.7	200.5	231.8	219.1	251.5	325.7	350.0	359.3	362.8	374.4
75°	120.5	122.9	129.8	120.5	139.1	175.0	229.5	259.6	271.2	274.7	292.1
77.5°	53.3	54.5	55.6	69.5	89.2	109.0	136.8	161.1	177.3	182.0	186.6
80°	27.8	29.0	35.9	47.5	63.7	80.0	99.7	113.6	124.0	125.2	129.8
82.5°	17.4	18.5	25.5	33.6	45.2	59.1	73.0	84.6	92.7	93.9	95.0
85°	8.1	10.4	15.1	20.9	30.1	38.2	39.4	33.6	35.9	37.1	34.8
87.5°	2.3	3.5	4.6	3.5	4.6	4.6	5.8	7.0	7.0	7.0	8.1
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°	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0	1304.0
2.5°	1324.8	1314.4	1273.8	1258.8	1219.4	1226.3	1205.4	1204.3	1199.6	1198.5	1197.3
5°	1357.3	1324.8	1276.1	1239.1	1217.0	1214.7	1199.6	1199.6	1204.3	1207.8	1199.6
7.5°	1410.6	1373.5	1291.2	1256.4	1236.7	1233.3	1222.8	1214.7	1225.1	1221.7	1212.4
10°	1472.0	1407.1	1320.2	1290.1	1257.6	1249.5	1249.5	1253.0	1235.6	1241.4	1232.1
12.5°	1540.4	1453.5	1357.3	1322.5	1284.3	1279.6	1277.3	1251.8	1261.1	1256.4	1233.3
15°	1627.3	1506.8	1404.8	1345.7	1313.2	1292.4	1262.2	1257.6	1251.8	1240.2	1229.8
17.5°	1721.2	1564.8	1426.8	1352.6	1304.0	1288.9	1265.7	1241.4	1224.0	1226.3	1218.2
20°	1801.2	1618.1	1434.9	1359.6	1297.0	1268.0	1232.1	1217.0	1198.5	1197.3	1196.2
22.5°	1896.3	1689.9	1446.5	1341.1	1276.1	1246.0	1221.7	1195.0	1182.3	1166.0	1174.1
25°	2009.8	1717.8	1448.9	1330.6	1261.1	1207.8	1195.0	1166.0	1161.4	1138.2	1142.9
27.5°	2092.1	1732.8	1430.3	1298.2	1226.3	1185.7	1162.6	1141.7	1133.6	1116.2	1111.6
30°	2202.3	1756.0	1390.9	1257.6	1191.5	1146.3	1132.4	1127.8	1104.6	1086.1	1083.7
32.5°	2327.4	1771.1	1365.4	1215.9	1155.6	1120.8	1127.8	1105.8	1076.8	1060.6	1055.9
35°	2427.1	1776.9	1301.6	1168.4	1131.3	1109.2	1101.1	1096.5	1054.8	1039.7	1028.1
37.5°	2579.0	1764.1	1248.3	1134.7	1104.6	1096.5	1089.5	1058.2	1010.7	988.7	972.5
40°	2756.3	1760.6	1179.9	1087.2	1079.1	1088.4	1067.5	1018.8	952.8	928.4	916.8
42.5°	2926.7	1785.0	1137.1	1061.7	1051.3	1054.8	1025.8	952.8	920.3	906.4	887.9
45°	3211.8	1836.0	1066.4	1022.3	1017.7	1015.4	980.6	904.1	885.5	868.2	864.7
47.5°	3469.1	1802.4	1021.2	981.7	986.4	973.6	899.4	875.1	854.2	836.9	831.1
50°	3484.2	1722.4	957.4	950.4	951.6	929.6	858.9	842.7	816.0	804.4	796.3
52.5°	3405.4	1591.4	898.3	900.6	904.1	868.2	809.0	797.4	775.4	759.2	754.6
55°	3184.0	1387.4	840.3	849.6	858.9	790.5	771.9	743.0	725.6	702.4	703.6
57.5°	2805.0	1117.4	759.2	774.3	794.0	718.6	704.7	668.8	643.3	624.7	622.4
60°	1880.0	795.1	637.5	643.3	687.3	657.2	656.0	620.1	585.3	569.1	559.8
62.5°	1109.2	607.4	550.6	544.8	543.6	561.0	590.0	577.2	532.0	500.7	510.0
65°	580.7	525.1	512.3	492.6	481.0	476.4	498.4	504.2	474.1	440.5	438.1
67.5°	488.0	488.0	477.5	470.6	454.4	434.7	420.7	402.2	397.6	388.3	376.7
70°	443.9	455.5	452.0	435.8	421.9	399.9	364.0	333.8	304.8	294.4	301.4
72.5°	387.1	398.7	398.7	390.6	372.1	338.5	303.7	268.9	244.6	226.0	223.7
75°	297.9	303.7	317.6	308.3	284.0	263.1	227.2	191.2	168.1	150.7	147.2
77.5°	190.1	199.4	199.4	198.2	180.8	161.1	137.9	112.4	95.0	82.3	78.8
80°	126.3	132.1	136.8	132.1	120.5	105.5	88.1	70.7	58.0	47.5	45.2
82.5°	92.7	99.7	103.2	98.5	86.9	75.3	62.6	49.8	37.1	29.0	26.7
85°	35.9	37.1	41.7	49.8	48.7	47.5	38.2	27.8	20.9	15.1	13.9
87.5°	9.3	8.1	9.3	9.3	8.1	7.0	7.0	7.0	7.0	3.5	4.6
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)