

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: P527229

Luminaire Tested: **GALN-SA2B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5715 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

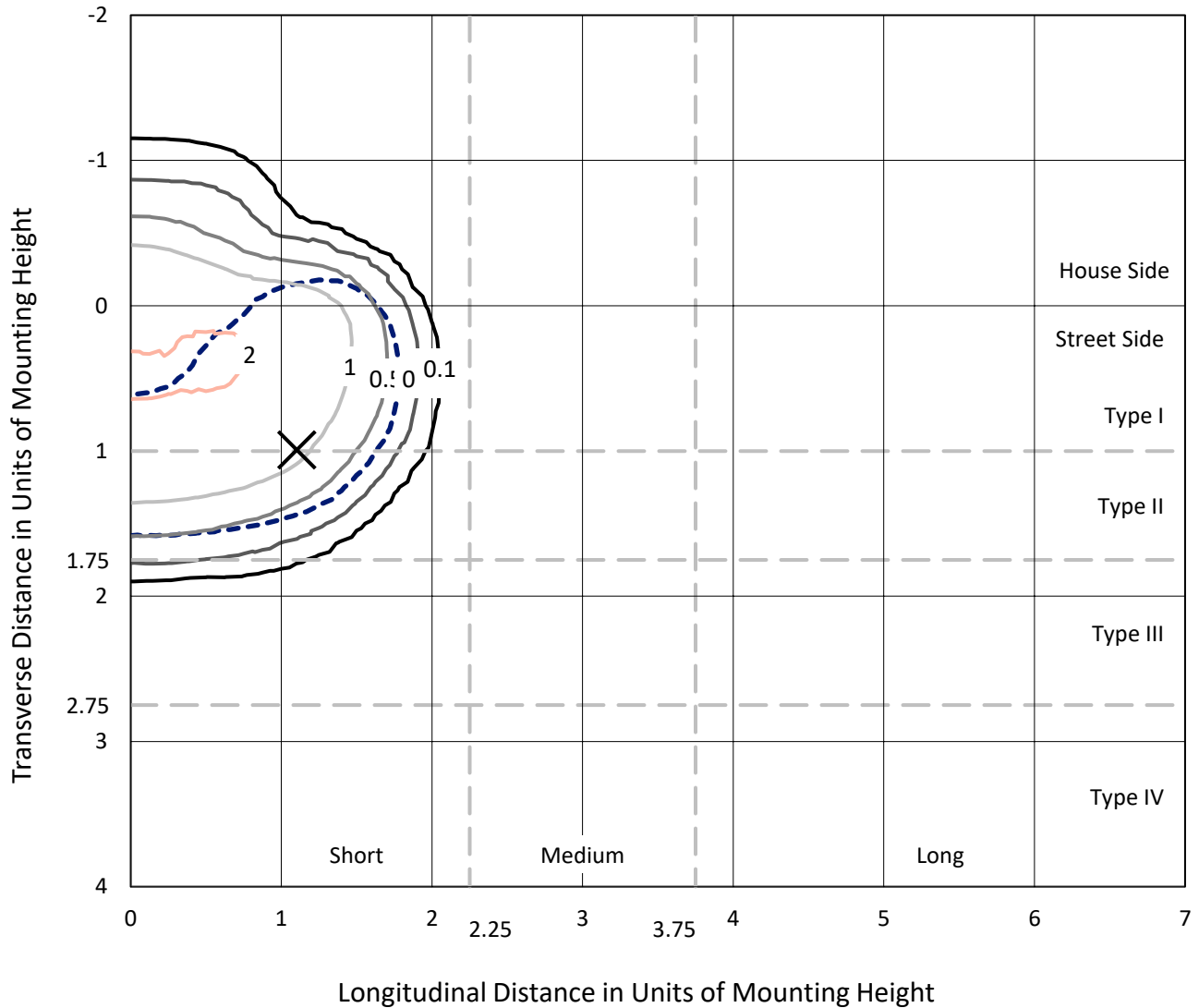
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

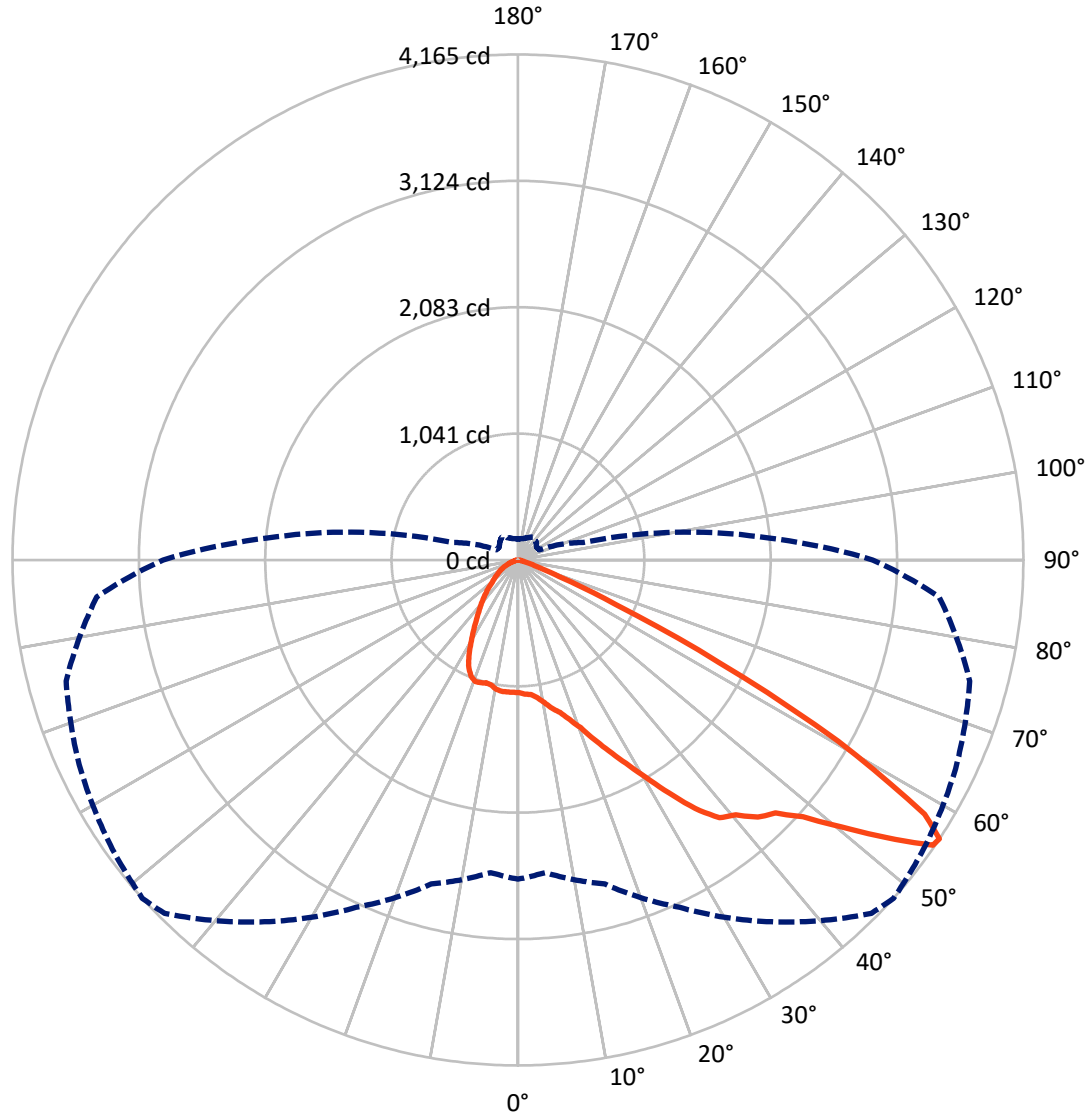
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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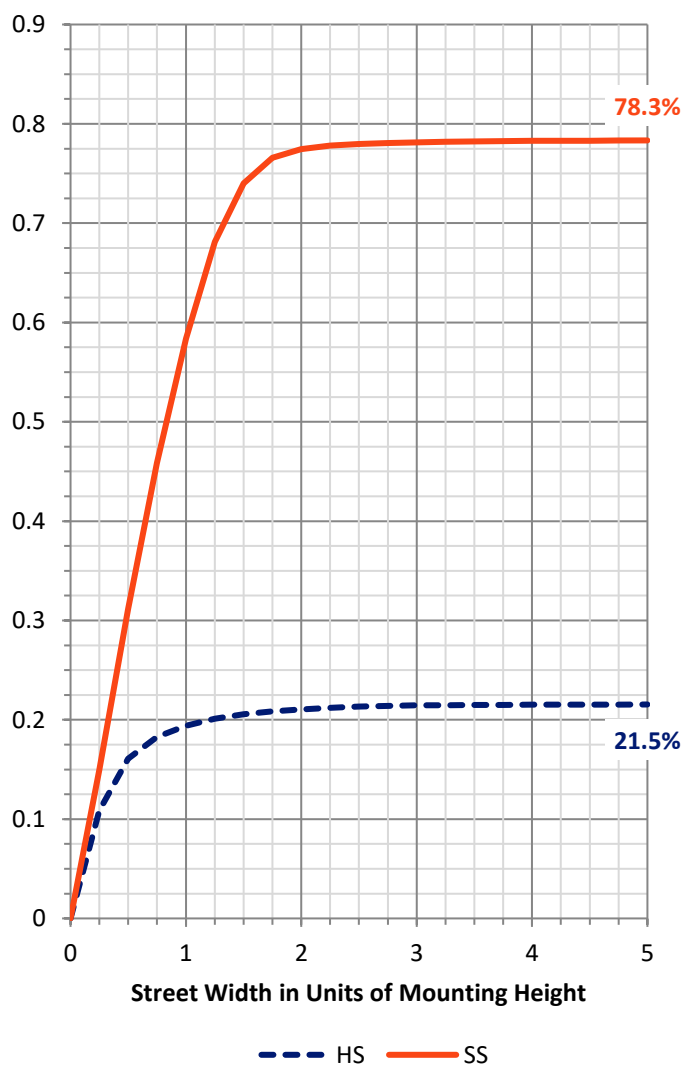
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1242.9	0.0	1242.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4472.1	0.0	4472.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5715.0	0.0	5715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	1.9
10°-20°	339.8	5.9
20°-30°	616.4	10.8
30°-40°	968.2	16.9
40°-50°	1412.4	24.7
50°-60°	1701.6	29.8
60°-70°	498.2	8.7
70°-80°	63.2	1.1
80°-90°	8.9	0.2
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°	5715.0	100.0
0°-180°	5715.0	100.0

**Coefficient of Utilization**



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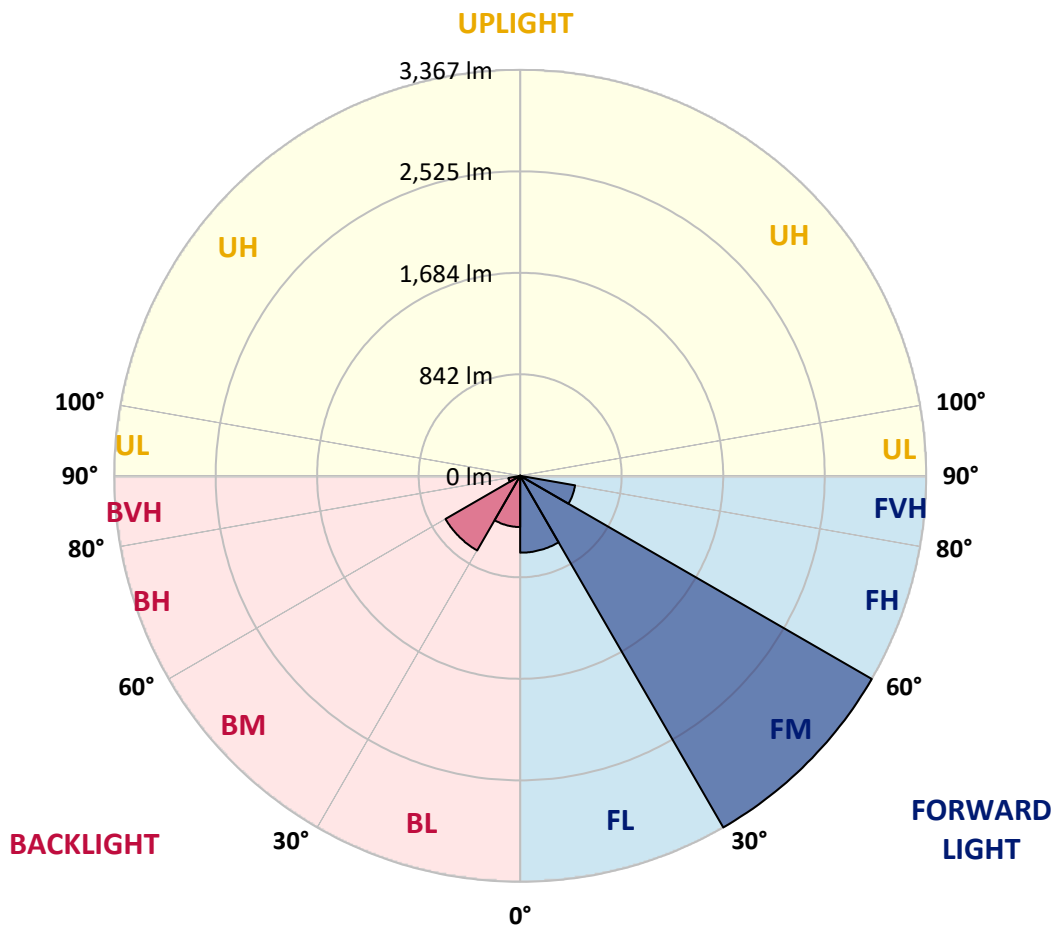
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.7	11.2			
FM (30°-60°)	3367.3	58.9			
FH (60°-80°)	462.7	8.1			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	424.8	7.4	B1/500		
BM (30°-60°)	714.9	12.5	B1/1000		
BH (60°-80°)	98.8	1.7	B0/110		G0/110
BVH (80°-90°)	4.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6
2.5°	1111.3	1106.1	1106.1	1097.8	1107.2	1103.0	1106.1	1095.7	1106.1	1090.5	1103.0
5°	1116.5	1117.6	1113.4	1118.6	1118.6	1124.9	1114.5	1123.8	1129.0	1117.6	1112.4
7.5°	1143.6	1145.7	1144.6	1140.5	1148.8	1147.8	1146.7	1139.4	1141.5	1137.4	1131.1
10°	1196.7	1195.6	1200.8	1190.4	1184.2	1191.5	1193.5	1182.1	1173.8	1170.7	1150.9
12.5°	1273.7	1261.2	1253.9	1243.5	1246.6	1236.2	1254.9	1235.2	1231.0	1212.3	1192.5
15°	1336.1	1334.0	1335.1	1318.4	1299.7	1303.8	1303.8	1293.4	1287.2	1264.3	1236.2
17.5°	1464.1	1420.4	1429.8	1408.9	1393.3	1392.3	1382.9	1385.0	1368.4	1320.5	1277.8
20°	1564.0	1545.3	1530.7	1495.3	1471.4	1478.7	1474.5	1464.1	1458.9	1396.5	1336.1
22.5°	1653.5	1659.7	1635.8	1626.4	1593.1	1596.2	1604.6	1595.2	1555.7	1491.1	1401.7
25°	1779.4	1772.1	1739.8	1728.4	1697.2	1708.6	1740.9	1733.6	1708.6	1592.1	1452.6
27.5°	1928.2	1903.2	1909.5	1857.4	1827.3	1859.5	1898.0	1934.4	1863.7	1710.7	1513.0
30°	2033.3	2007.3	2005.2	2003.1	1995.8	2033.3	2078.0	2111.3	2054.1	1829.3	1612.9
32.5°	2085.3	2091.6	2109.3	2103.0	2166.5	2243.5	2290.3	2338.2	2266.4	2022.9	1745.1
35°	2223.7	2184.2	2223.7	2227.9	2293.4	2456.8	2516.1	2630.6	2612.9	2296.6	1906.3
37.5°	2304.9	2301.8	2307.0	2346.5	2410.0	2611.9	2696.1	2784.6	2751.3	2461.0	2107.2
40°	2439.1	2447.4	2446.4	2476.6	2546.3	2728.4	2762.7	2834.5	2837.7	2688.9	2402.7
42.5°	2654.5	2621.2	2599.4	2630.6	2728.4	2829.3	2898.0	2883.4	2986.5	2965.7	2782.5
45°	2848.1	2867.8	2835.6	2887.6	2923.0	2977.1	2975.0	3006.2	3137.3	3236.2	3068.7
47.5°	3029.1	3041.6	3057.2	3092.6	3169.6	3177.9	3160.2	3146.7	3327.8	3429.7	3290.3
50°	3137.3	3148.8	3221.6	3285.1	3428.7	3447.4	3457.8	3423.5	3546.3	3557.7	3499.5
52.5°	3108.2	3120.7	3222.7	3431.8	3660.8	3832.5	3801.2	3743.0	3735.7	3780.4	3693.0
55°	2850.1	2838.7	2979.2	3304.9	3733.6	4145.7	4149.8	4088.4	3970.8	3940.7	3663.9
56°	2630.6	2585.8	2764.8	3158.2	3639.9	4118.6	4165.4	4099.9	3989.6	3854.3	3483.9
57.5°	2155.0	2197.7	2375.6	2701.3	3316.3	3924.0	3951.1	3935.5	3852.2	3625.4	3065.5
60°	1188.3	1263.3	1420.4	1818.9	2361.1	3011.4	3033.3	3160.2	3175.8	2776.3	2109.3
62.5°	504.7	496.4	659.7	953.2	1344.4	1817.9	1858.5	1988.5	2012.5	1600.4	1058.3
65°	205.0	216.4	298.6	479.7	710.7	828.3	885.5	928.2	1007.3	660.8	390.2
67.5°	135.3	134.2	175.9	273.7	382.9	369.4	369.4	390.2	361.1	269.5	168.6
70°	96.8	99.9	125.9	189.4	238.3	176.9	169.6	162.3	184.2	177.9	136.3
72.5°	63.5	67.6	84.3	113.4	123.8	96.8	96.8	116.5	151.9	143.6	111.3
75°	41.6	42.7	52.0	65.6	61.4	49.9	55.2	78.0	110.3	106.1	79.1
77.5°	28.1	29.1	35.4	42.7	34.3	28.1	30.2	39.5	54.1	54.1	41.6
80°	10.4	11.4	14.6	13.5	15.6	19.8	21.9	27.1	32.3	32.3	28.1
82.5°	0.0	1.0	3.1	7.3	11.4	15.6	17.7	20.8	23.9	27.1	26.0
85°	0.0	1.0	3.1	5.2	8.3	9.4	10.4	7.3	6.2	6.2	5.2
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	1.0	1.0
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°	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6	1091.6
2.5°	1091.6	1090.5	1090.5	1087.4	1093.6	1090.5	1092.6	1091.6	1078.0	1088.4	1081.2
5°	1103.0	1110.3	1098.9	1096.8	1088.4	1091.6	1091.6	1081.2	1090.5	1089.5	1087.4
7.5°	1132.2	1119.7	1107.2	1094.7	1092.6	1089.5	1078.0	1073.9	1081.2	1072.8	1085.3
10°	1144.6	1146.7	1128.0	1111.3	1095.7	1073.9	1058.3	1048.9	1037.5	1049.9	1057.2
12.5°	1201.9	1181.1	1148.8	1122.8	1069.7	1047.9	1032.3	1028.1	1047.9	1052.0	1044.7
15°	1221.6	1218.5	1176.9	1118.6	1063.5	1037.5	1040.6	1032.3	1034.3	1023.9	1026.0
17.5°	1262.2	1226.8	1177.9	1105.1	1062.4	1056.2	1037.5	1004.2	985.4	977.1	984.4
20°	1307.0	1272.6	1201.9	1110.3	1071.8	1055.1	993.8	953.2	914.7	893.9	894.9
22.5°	1346.5	1303.8	1191.5	1112.4	1080.1	1011.4	937.6	857.4	809.6	777.3	778.4
25°	1394.4	1334.0	1195.6	1116.5	1058.3	941.7	835.6	757.5	700.3	678.5	685.7
27.5°	1421.4	1352.8	1218.5	1125.9	1001.0	842.9	728.4	655.6	622.3	611.9	610.8
30°	1502.6	1394.4	1246.6	1107.2	905.3	736.7	630.6	585.8	553.6	544.2	546.3
32.5°	1623.3	1470.3	1283.0	1058.3	807.5	642.0	567.1	533.8	503.6	486.0	483.9
35°	1724.2	1600.4	1321.5	982.3	694.1	569.2	522.4	480.7	435.0	415.2	410.0
37.5°	1916.7	1747.1	1313.2	867.8	585.8	515.1	474.5	423.5	384.0	356.9	353.8
40°	2172.7	1918.8	1272.6	728.4	505.7	467.2	423.5	374.6	325.7	302.8	300.7
42.5°	2483.9	2129.0	1198.7	586.9	425.6	419.4	379.8	323.6	279.9	263.3	264.3
45°	2736.7	2309.0	1123.8	471.4	366.3	372.5	338.2	285.1	254.9	241.4	241.4
47.5°	2961.5	2430.8	1042.7	389.2	311.1	325.7	295.5	264.3	238.3	227.9	225.8
50°	3177.9	2554.6	961.5	315.3	265.3	279.9	276.8	251.8	231.0	218.5	219.6
52.5°	3313.2	2574.4	858.5	258.1	232.0	248.7	259.1	236.2	213.3	206.0	204.0
55°	3147.8	2319.5	666.0	212.3	196.7	218.5	238.3	212.3	194.6	182.1	181.1
56°	2925.1	2073.9	556.7	195.6	186.3	210.2	231.0	202.9	183.1	175.9	170.7
57.5°	2476.6	1697.2	411.0	173.8	172.7	195.6	219.6	193.5	170.7	164.4	164.4
60°	1544.2	955.3	248.7	145.7	149.8	173.8	197.7	172.7	151.9	151.9	155.0
62.5°	703.4	397.5	150.9	123.8	129.0	149.8	175.9	156.1	144.6	156.1	158.2
65°	239.3	171.7	109.3	98.9	102.0	123.8	150.9	158.2	157.1	164.4	168.6
67.5°	134.2	110.3	91.6	82.2	80.1	91.6	123.8	158.2	151.9	148.8	150.9
70°	113.4	93.7	81.2	72.8	69.7	73.9	95.7	119.7	107.2	104.1	102.0
72.5°	91.6	78.0	70.8	65.6	56.2	47.9	43.7	45.8	51.0	54.1	59.3
75°	64.5	59.3	59.3	53.1	40.6	30.2	23.9	19.8	13.5	9.4	10.4
77.5°	36.4	36.4	37.5	32.3	26.0	19.8	14.6	10.4	5.2	2.1	1.0
80°	25.0	27.1	29.1	26.0	21.9	17.7	12.5	7.3	3.1	0.0	0.0
82.5°	25.0	28.1	30.2	26.0	21.9	16.6	12.5	7.3	3.1	1.0	0.0
85°	5.2	6.2	7.3	8.3	12.5	12.5	9.4	6.2	3.1	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
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)