

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: P651663

Luminaire Tested: **GALN-SA1A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3512 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

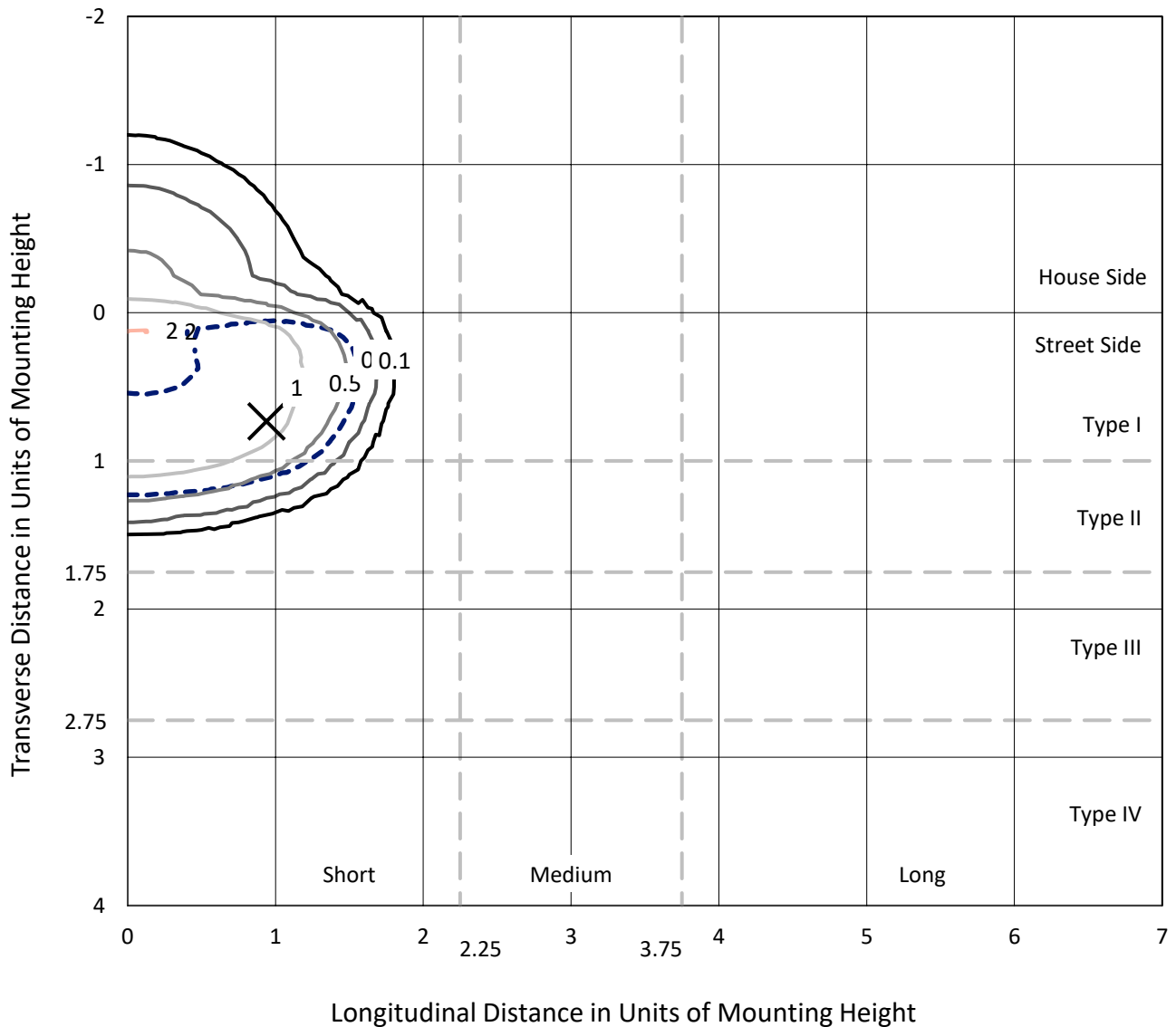
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

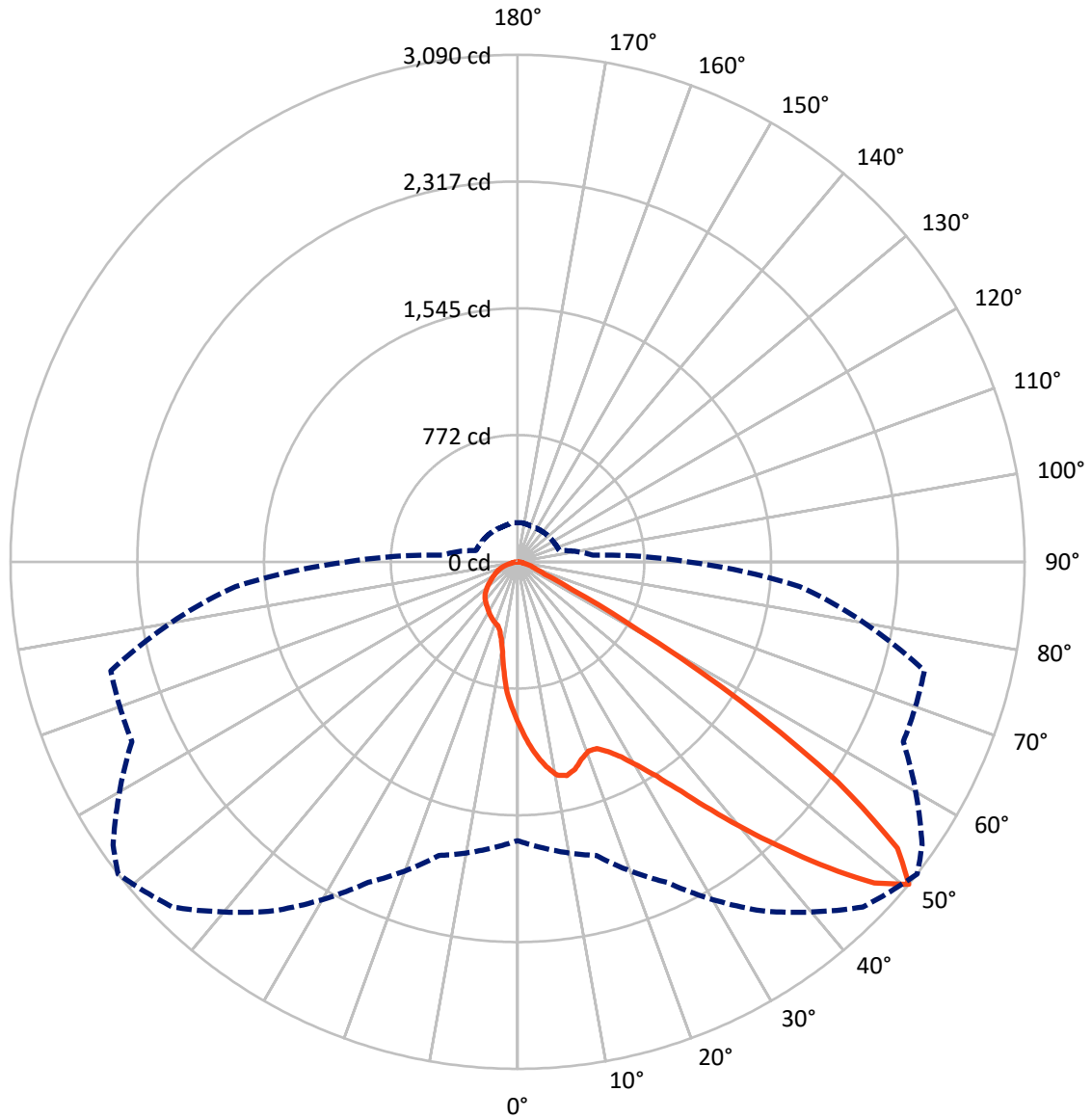
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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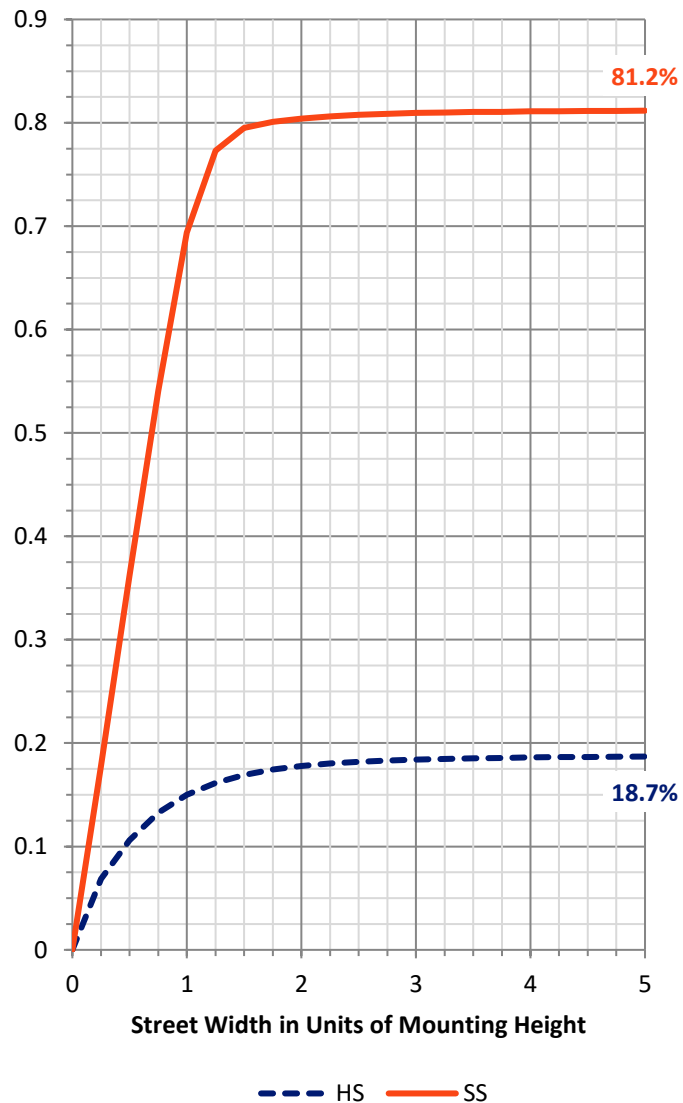
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	660.2	0.0	660.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	2851.8	0.0	2851.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3512.0	0.0	3512.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	2.6
10°-20°	244.6	7.0
20°-30°	412.0	11.7
30°-40°	691.3	19.7
40°-50°	1057.5	30.1
50°-60°	771.0	22.0
60°-70°	171.6	4.9
70°-80°	61.9	1.8
80°-90°	11.0	0.3
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°	3512.0	100.0
0°-180°	3512.0	100.0

**Coefficient of Utilization**

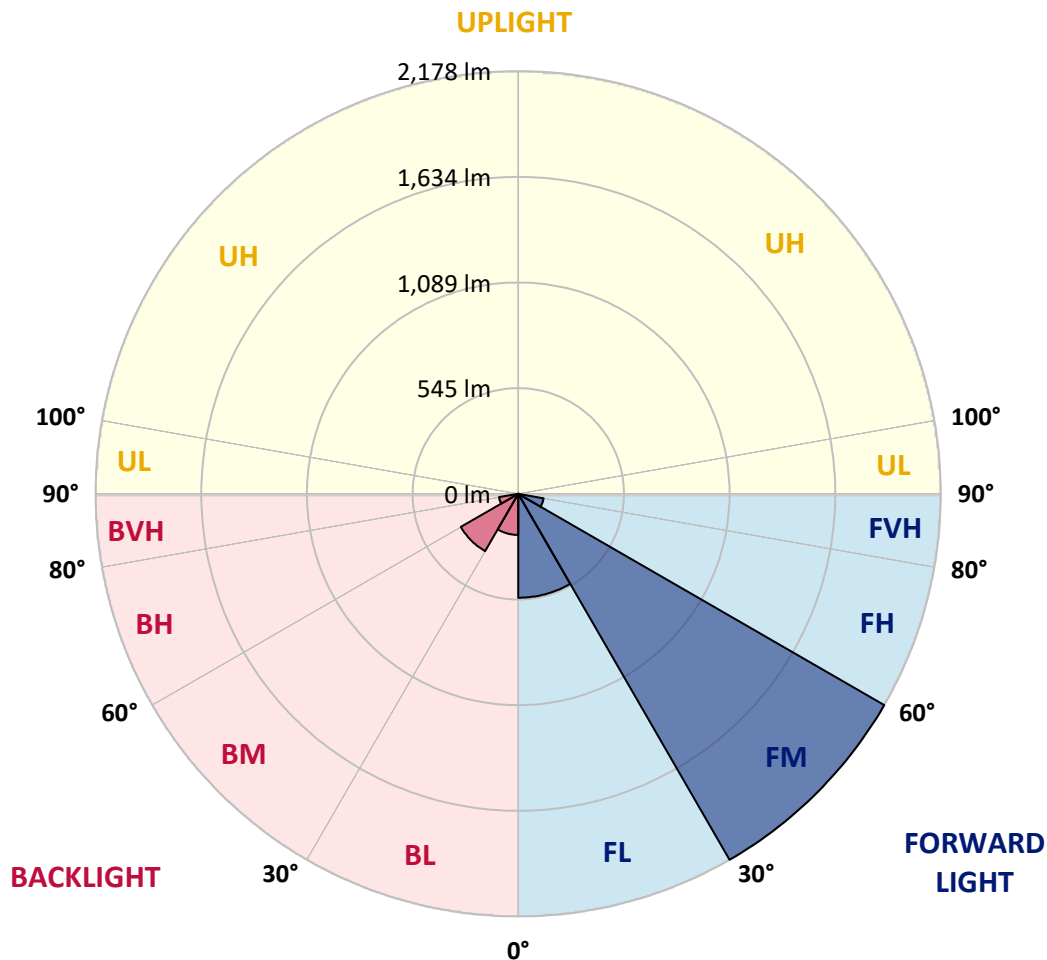


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.7	15.3			
FM (30°-60°)	2178.3	62.0			
FH (60°-80°)	132.9	3.8			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	212.1	6.0	B1/500		
BM (30°-60°)	341.5	9.7	B1/1000		
BH (60°-80°)	100.6	2.9	B0/110		G0/110
BVH (80°-90°)	6.0	0.2			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°	52°	55°	65°	75°	85°
0°	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9
2.5°	1165.6	1143.2	1145.7	1129.6	1112.3	1107.3	1089.4	1072.5	1059.8	1032.7	1007.8
5°	1273.9	1267.2	1257.0	1244.3	1231.2	1199.1	1180.8	1159.7	1113.1	1071.3	1029.8
7.5°	1289.7	1288.3	1293.9	1293.9	1298.5	1286.2	1260.4	1245.6	1196.1	1127.9	1050.9
10°	1179.6	1183.4	1210.0	1244.8	1293.0	1326.4	1322.2	1318.4	1264.3	1171.1	1075.9
12.5°	1092.0	1083.5	1099.2	1128.8	1201.2	1282.0	1336.6	1337.0	1323.1	1240.1	1094.1
15°	1042.5	1048.4	1052.6	1066.6	1121.2	1214.7	1310.8	1339.1	1400.5	1288.8	1122.9
17.5°	1074.2	1054.3	1053.4	1056.9	1084.8	1155.0	1263.0	1311.6	1442.8	1351.4	1158.4
20°	1115.7	1115.3	1103.4	1099.2	1098.8	1161.4	1231.6	1297.7	1465.3	1432.7	1194.4
22.5°	1188.5	1188.5	1169.0	1159.7	1139.8	1191.0	1235.8	1280.8	1502.5	1488.6	1211.8
25°	1310.4	1290.5	1257.0	1234.2	1222.7	1241.0	1280.8	1321.0	1535.2	1547.9	1247.7
27.5°	1423.0	1391.6	1375.1	1335.8	1320.5	1309.9	1346.4	1387.0	1573.2	1640.1	1267.2
30°	1550.8	1545.3	1515.7	1464.9	1427.2	1407.7	1441.1	1481.3	1643.1	1734.5	1312.0
32.5°	1779.3	1729.4	1689.1	1627.0	1565.6	1524.1	1557.1	1583.8	1759.0	1833.1	1361.2
35°	2026.1	2010.0	1940.6	1828.4	1734.5	1697.2	1716.7	1736.6	1894.0	1983.8	1443.7
37.5°	2268.6	2246.6	2189.5	2095.1	1980.8	1905.0	1919.0	1942.3	2045.6	2186.9	1544.4
40°	2443.0	2415.9	2387.1	2373.1	2259.8	2156.1	2148.0	2153.9	2250.4	2377.4	1656.2
42.5°	2455.7	2489.1	2498.0	2554.3	2527.6	2442.6	2393.1	2394.3	2446.0	2565.7	1769.2
45°	2429.1	2398.1	2463.7	2617.4	2705.4	2745.2	2661.8	2651.3	2567.0	2675.0	1825.5
47.5°	2149.3	2157.8	2268.6	2511.6	2766.0	2943.7	2924.2	2889.1	2631.7	2671.1	1816.6
50°	1698.9	1750.1	1853.0	2155.6	2596.7	2975.0	3089.7	3008.4	2593.2	2566.1	1726.0
52.5°	1131.3	1152.5	1220.2	1610.9	2087.9	2659.2	2899.3	2917.8	2557.7	2428.6	1611.3
55°	503.7	502.0	597.2	841.4	1309.9	2023.5	2368.9	2482.4	2421.0	2288.5	1499.6
57.5°	213.3	220.5	259.4	363.6	644.2	1221.0	1605.0	1704.5	1861.9	1879.2	1150.4
60°	144.3	145.2	155.8	182.0	269.6	573.5	841.8	961.2	1073.8	1066.1	610.3
62.5°	113.5	116.4	124.5	135.0	160.0	260.3	376.7	443.1	450.4	378.8	231.5
65°	96.9	97.4	105.4	114.3	125.3	151.5	181.6	184.9	187.0	180.3	170.1
67.5°	80.0	80.8	87.2	97.4	107.5	116.0	124.5	128.7	138.4	157.4	154.9
70°	63.5	64.8	70.2	78.7	88.1	93.1	103.7	107.5	116.4	131.2	137.2
72.5°	48.3	48.7	53.3	59.3	67.7	72.8	81.7	86.0	91.8	104.5	110.0
75°	34.7	36.0	39.4	42.3	43.6	47.0	55.4	60.1	68.5	74.1	74.5
77.5°	18.2	19.0	19.9	19.9	24.1	30.4	36.0	38.5	44.4	48.7	46.6
80°	7.2	7.7	9.8	13.1	16.9	22.0	25.8	27.1	32.1	34.7	36.0
82.5°	4.2	4.6	6.3	9.3	12.3	15.6	18.6	19.9	23.3	26.2	27.1
85°	2.1	2.5	3.8	5.9	8.1	9.8	9.3	8.9	8.9	8.5	8.9
87.5°	0.8	0.8	1.3	1.3	1.3	1.7	2.1	2.1	2.1	2.5	2.5
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°	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9	989.9
2.5°	991.3	974.3	958.7	929.9	898.5	889.7	853.3	840.2	830.8	819.8	816.4
5°	996.3	973.9	923.5	865.6	819.4	760.2	721.2	679.3	648.8	641.3	639.1
7.5°	1006.9	968.4	881.6	794.0	699.6	619.2	557.8	524.9	495.6	493.9	491.0
10°	1018.8	951.9	836.0	698.4	577.8	503.3	466.4	452.0	444.8	443.1	442.3
12.5°	1028.5	948.5	784.7	605.3	491.4	446.5	435.6	434.3	437.2	438.1	439.8
15°	1032.7	934.9	722.9	521.8	437.7	421.2	425.8	430.8	432.9	438.5	434.3
17.5°	1040.7	917.6	646.7	455.8	407.5	410.6	418.6	424.5	427.9	431.7	426.2
20°	1045.0	902.0	575.2	416.5	397.0	402.5	413.5	418.1	422.4	424.1	417.7
22.5°	1041.2	869.8	512.2	384.8	386.9	394.0	403.8	408.9	406.3	399.6	395.8
25°	1031.1	824.5	446.5	364.4	372.5	385.2	392.7	389.0	384.3	380.5	379.2
27.5°	1030.6	769.0	399.1	345.8	360.2	377.5	375.0	371.6	373.7	370.8	367.3
30°	1032.7	715.3	360.2	335.2	351.3	359.8	362.7	359.4	361.9	356.4	358.1
32.5°	1021.7	662.8	334.8	322.9	340.7	340.3	350.0	352.5	346.7	335.2	336.9
35°	1026.4	620.5	313.2	317.5	328.8	328.8	336.5	333.5	317.9	311.1	312.8
37.5°	1058.6	579.0	302.6	309.8	317.5	320.8	318.3	305.6	301.8	301.8	302.6
40°	1089.0	543.5	296.3	308.1	306.9	309.0	290.3	291.7	291.7	292.1	289.9
42.5°	1116.1	519.3	291.2	298.0	300.1	289.1	277.6	276.4	279.4	279.0	277.2
45°	1125.8	499.5	284.0	286.5	288.2	270.0	264.5	262.0	265.3	266.7	268.4
47.5°	1088.6	482.9	275.9	270.9	267.5	255.7	248.4	243.8	248.0	255.2	256.9
50°	1040.7	461.4	263.2	253.6	246.3	241.3	236.2	231.5	234.5	239.6	238.3
52.5°	970.1	427.5	247.2	237.0	224.7	226.0	221.4	218.8	220.5	220.5	219.2
55°	869.3	351.3	220.1	212.9	202.8	206.1	207.0	203.6	200.2	203.2	200.6
57.5°	593.4	248.0	196.4	196.4	186.2	190.9	190.5	182.4	174.3	175.3	173.5
60°	343.3	197.6	181.2	179.5	168.9	172.7	173.5	168.0	155.8	156.6	154.9
62.5°	195.1	168.9	158.3	155.8	153.7	157.0	157.0	149.9	139.3	140.1	138.4
65°	165.9	156.6	141.4	141.0	140.1	141.0	137.6	129.9	120.6	116.8	117.2
67.5°	150.7	144.7	129.9	126.2	123.6	123.2	116.8	109.6	105.4	102.0	101.6
70°	132.0	127.4	116.4	111.3	108.7	102.9	96.5	91.8	86.0	84.3	86.0
72.5°	104.5	104.1	99.9	94.4	88.9	84.3	78.7	72.4	66.9	65.6	62.7
75°	72.4	73.3	74.1	73.3	68.5	62.7	56.3	51.2	44.4	40.6	39.8
77.5°	47.4	48.7	50.0	48.3	45.2	39.8	35.6	29.2	24.1	21.2	20.8
80°	34.7	36.4	37.3	36.0	32.6	28.3	23.7	18.6	14.8	12.3	12.3
82.5°	26.7	28.3	29.2	27.1	23.7	20.4	16.9	13.1	10.2	8.1	7.7
85°	9.3	8.9	10.6	11.0	13.1	12.3	10.2	7.7	5.9	4.2	3.8
87.5°	2.5	2.5	2.9	2.9	2.5	2.1	2.1	2.1	1.7	1.3	1.3
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)