

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: P652197

Luminaire Tested: **GALN-SA1B-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4955.2 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

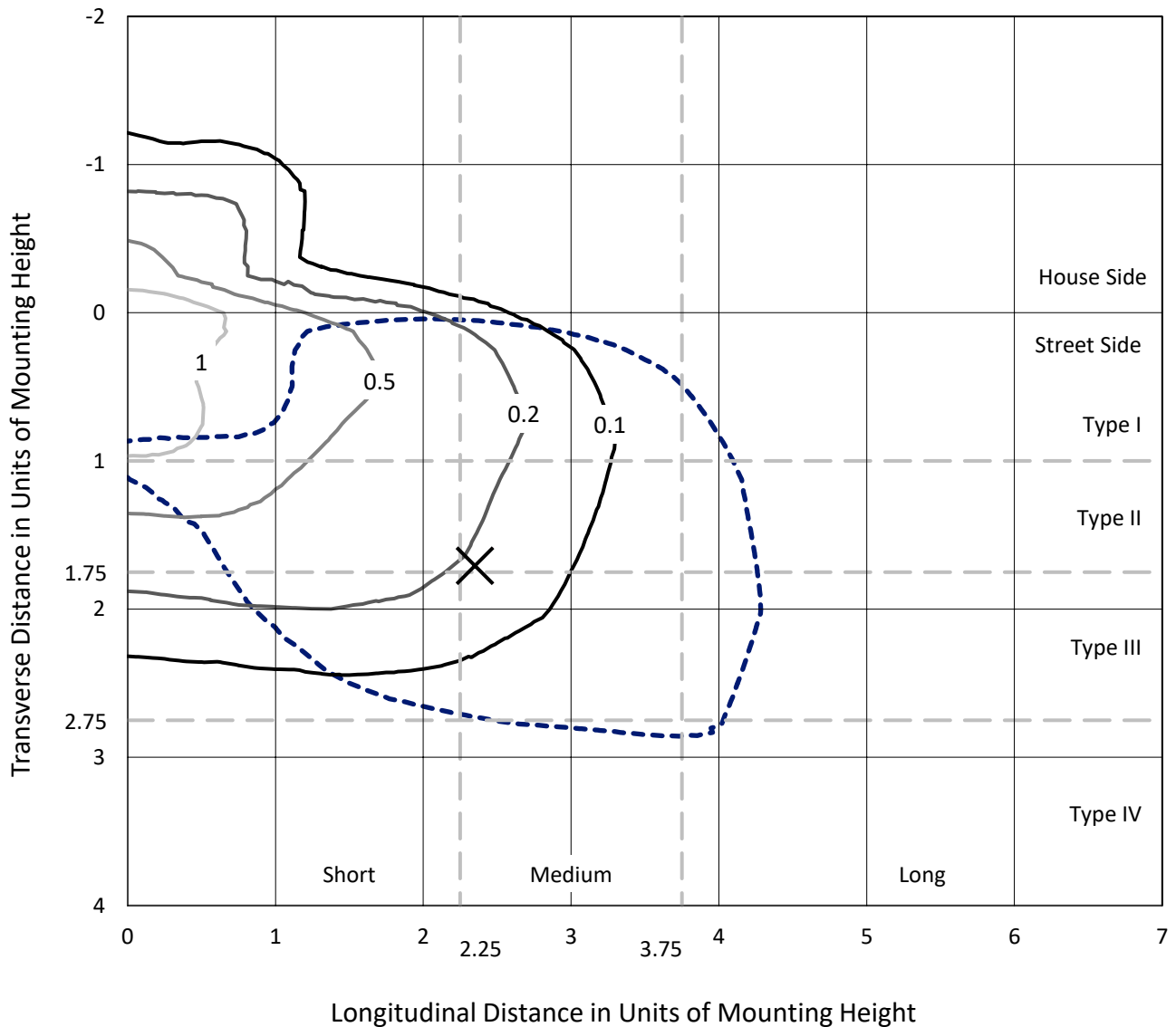
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

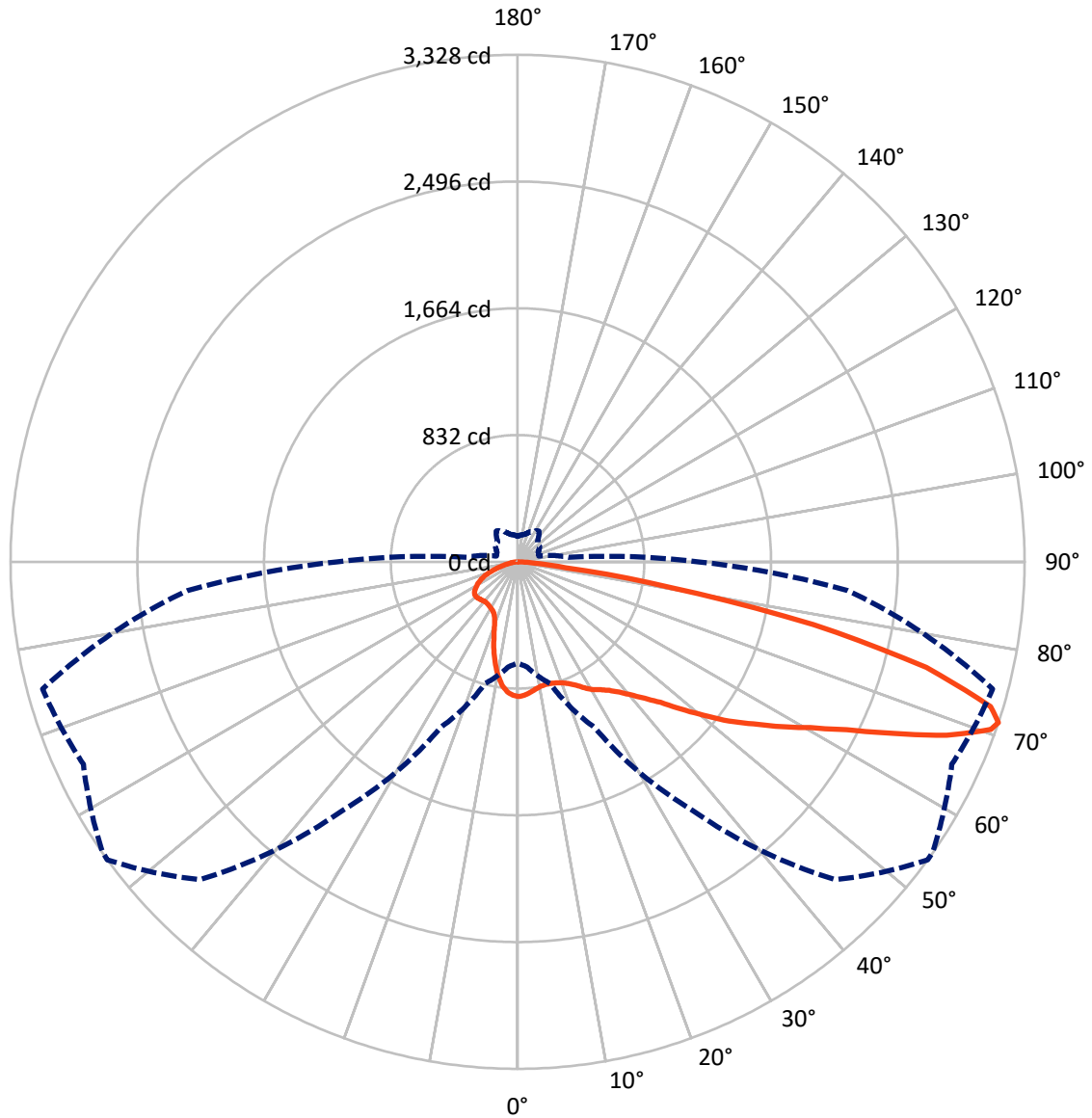
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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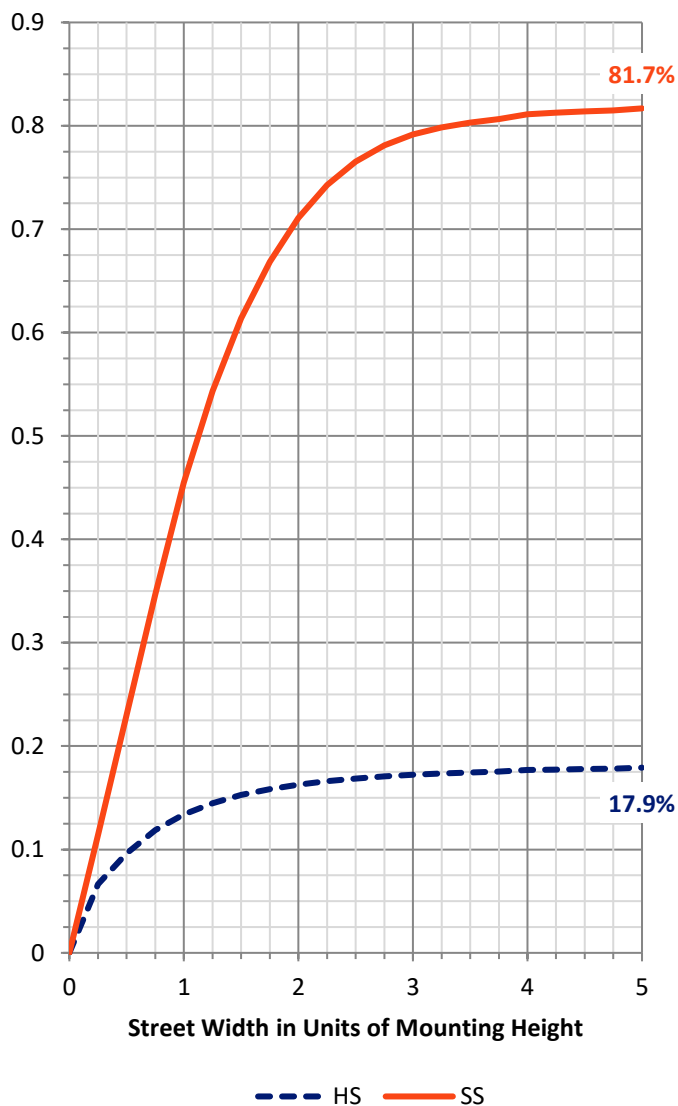
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	894.6	0.0	894.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4060.5	0.0	4060.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4955.2	0.0	4955.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	1.6
10°-20°	208.0	4.2
20°-30°	346.4	7.0
30°-40°	512.2	10.3
40°-50°	721.4	14.6
50°-60°	966.0	19.5
60°-70°	1217.6	24.6
70°-80°	831.6	16.8
80°-90°	73.1	1.5
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°	4955.2	100.0
0°-180°	4955.2	100.0

**Coefficient of Utilization**

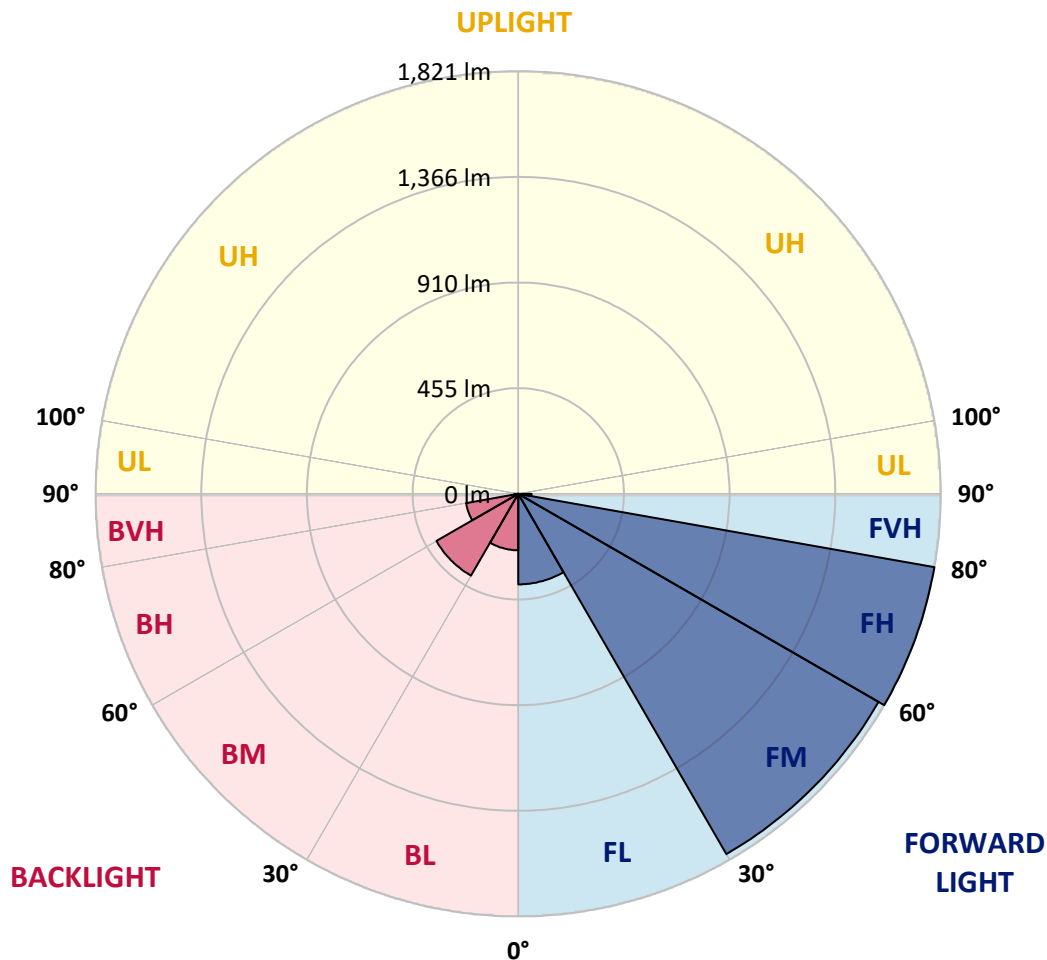


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.1	7.9			
FM (30°-60°)	1792.6	36.2			
FH (60°-80°)	1820.7	36.7			G2/5000
FVH (80°-90°)	57.2	1.2			G1/100
BL (0°-30°)	243.1	4.9	B1/500		
BM (30°-60°)	407.0	8.2	B1/1000		
BH (60°-80°)	228.5	4.6	B1/500		G1/500
BVH (80°-90°)	16.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1
2.5°	854.1	858.1	859.2	861.9	867.5	872.0	876.6	876.1	882.5	885.2	887.6
5°	816.1	817.2	821.2	826.5	836.5	849.0	861.4	861.6	877.4	889.9	896.1
7.5°	788.3	791.7	794.4	800.0	810.5	824.1	843.7	845.3	873.4	898.3	911.4
10°	770.0	774.1	777.0	784.0	794.4	809.6	830.8	833.8	870.4	911.4	934.4
12.5°	753.5	757.5	760.2	769.3	782.9	801.6	825.4	829.0	871.5	926.6	959.6
15°	763.6	766.8	765.7	768.4	777.6	798.9	827.6	831.1	875.5	941.3	984.5
17.5°	808.9	811.6	802.7	792.6	788.3	804.1	834.3	838.1	883.6	956.6	1009.9
20°	875.5	882.7	863.5	840.7	820.1	822.2	848.2	852.2	894.8	971.9	1035.9
22.5°	962.3	967.6	944.0	906.6	868.6	849.0	869.1	871.5	911.6	991.7	1064.2
25°	1064.2	1067.4	1034.8	986.6	931.7	894.8	897.8	902.0	939.5	1014.2	1089.3
27.5°	1163.3	1173.4	1135.7	1076.8	1004.5	942.9	937.0	939.7	969.8	1026.8	1106.8
30°	1280.8	1279.9	1240.1	1171.8	1079.2	995.4	974.3	973.7	986.1	1032.9	1119.4
32.5°	1374.4	1385.4	1346.4	1271.9	1164.6	1049.7	999.9	998.9	998.6	1043.6	1138.1
35°	1480.9	1482.6	1446.7	1371.8	1257.0	1118.0	1035.9	1030.5	1024.3	1066.6	1163.5
37.5°	1576.2	1583.8	1550.8	1466.8	1347.7	1188.9	1085.1	1081.6	1062.9	1106.5	1204.2
40°	1650.6	1656.3	1636.5	1556.4	1437.0	1265.5	1147.7	1141.3	1118.5	1171.8	1258.6
42.5°	1675.0	1686.5	1694.3	1654.9	1539.9	1356.2	1224.8	1216.8	1199.4	1270.8	1321.1
45°	1676.9	1695.1	1736.0	1737.9	1643.1	1464.9	1314.7	1309.1	1307.8	1397.7	1409.3
47.5°	1662.7	1681.2	1750.0	1787.1	1735.2	1574.6	1444.6	1435.8	1436.5	1554.6	1508.0
50°	1628.4	1650.4	1733.9	1818.7	1807.2	1688.6	1581.6	1578.6	1595.2	1733.6	1610.5
52.5°	1563.9	1590.4	1717.3	1838.5	1860.8	1786.9	1737.3	1729.1	1771.1	1927.9	1722.6
55°	1385.4	1425.2	1656.5	1849.5	1911.6	1880.8	1877.6	1892.6	1948.3	2139.9	1846.1
57.5°	1292.3	1322.2	1524.6	1851.4	1975.8	1990.1	2041.4	2045.1	2142.6	2365.1	1985.5
60°	1241.4	1267.9	1452.3	1839.1	2065.5	2125.2	2209.0	2222.3	2332.3	2608.9	2130.0
62.5°	1197.0	1219.7	1408.9	1796.5	2166.7	2325.7	2426.0	2432.5	2547.8	2878.2	2272.7
65°	1092.3	1118.3	1321.7	1754.0	2254.0	2576.2	2714.1	2706.6	2777.2	3110.4	2362.1
67.5°	951.3	984.2	1158.7	1607.0	2297.0	2850.1	3038.4	3029.1	3003.6	3262.7	2387.8
70°	771.1	788.8	950.2	1353.0	2125.0	2993.8	3294.6	3284.7	3143.9	3282.8	2266.2
71°	663.5	691.1	827.3	1201.8	1981.7	2949.9	3327.5	3324.9	3144.2	3227.4	2174.7
72.5°	517.9	534.8	655.2	931.2	1684.4	2700.4	3246.2	3256.4	3076.0	3073.5	1986.0
75°	327.7	335.1	411.2	548.2	924.3	1912.4	2771.1	2798.6	2731.1	2515.7	1477.0
77.5°	190.3	199.9	246.2	323.0	399.3	1038.0	1982.8	2012.8	1897.7	1385.1	604.7
80°	110.8	121.5	162.2	187.6	183.3	385.2	1009.6	1060.8	821.7	349.9	169.7
82.5°	61.6	68.8	114.0	114.3	97.7	125.8	317.7	332.4	234.5	141.0	69.3
85°	44.7	50.6	73.6	66.6	46.8	54.1	110.5	115.9	94.8	59.5	22.5
87.5°	15.8	22.5	40.5	32.1	12.9	11.3	31.9	26.0	24.1	16.6	5.0
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°	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1
2.5°	888.9	889.4	886.8	882.0	877.1	870.9	864.0	858.7	856.2	856.0	855.7
5°	898.5	899.9	889.7	874.7	858.1	837.8	820.4	800.5	795.5	787.4	789.9
7.5°	914.1	913.2	893.1	861.4	822.5	779.4	743.0	721.9	700.0	693.7	694.1
10°	936.3	931.2	893.1	834.0	769.3	705.3	654.5	622.3	604.9	590.5	585.1
12.5°	959.8	947.0	884.6	795.8	700.7	622.3	567.7	524.4	513.1	501.3	501.6
15°	982.3	960.9	867.7	741.9	626.9	533.7	480.7	454.7	451.3	452.6	452.4
17.5°	1002.6	970.8	842.1	682.0	540.7	457.7	429.6	431.4	440.9	447.5	448.3
20°	1023.2	976.7	803.7	601.7	459.3	411.7	412.8	427.5	441.6	450.8	452.0
22.5°	1042.8	979.3	758.8	524.1	400.4	392.2	407.9	423.7	437.7	446.5	447.8
25°	1055.6	973.2	695.1	443.0	371.5	385.2	401.7	415.1	426.9	436.0	438.2
27.5°	1059.2	953.4	616.1	377.4	358.1	378.4	393.8	403.6	412.8	421.3	422.9
30°	1057.2	924.3	529.4	338.8	350.4	370.7	382.5	389.7	400.7	407.4	408.7
32.5°	1054.3	890.2	439.0	318.2	344.0	363.5	370.5	376.9	376.6	373.9	375.8
35°	1055.4	849.6	365.6	306.0	338.3	358.1	364.0	356.0	333.0	331.9	330.8
37.5°	1061.0	809.4	312.3	297.4	335.4	357.3	360.5	323.6	303.3	293.9	291.5
40°	1075.5	762.5	277.3	291.0	335.1	363.5	344.7	307.3	268.2	250.0	248.7
42.5°	1094.7	716.5	255.9	286.9	338.3	372.8	338.3	284.3	241.7	231.0	229.4
45°	1123.3	663.8	244.1	285.0	343.1	376.3	336.1	267.4	231.0	222.4	222.4
47.5°	1155.8	613.5	237.7	283.8	349.3	373.9	317.1	262.1	225.9	227.0	232.0
50°	1187.8	569.9	232.9	280.8	354.6	372.6	309.4	261.8	227.2	240.9	250.0
52.5°	1225.1	539.1	227.0	275.9	354.6	364.0	307.0	267.1	231.0	235.0	239.0
55°	1270.1	529.4	219.5	265.5	348.3	342.6	305.7	274.9	233.6	224.3	225.9
57.5°	1329.5	545.0	212.3	252.4	333.5	320.4	305.1	277.0	227.5	219.8	218.2
60°	1398.5	575.7	210.1	239.0	313.4	301.4	301.9	270.9	218.9	210.9	212.3
62.5°	1446.9	594.2	208.7	228.8	291.5	280.5	294.2	263.4	215.2	208.2	209.6
65°	1446.9	571.7	196.5	213.4	263.1	255.3	284.8	254.0	210.4	202.3	201.0
67.5°	1392.1	506.1	177.7	190.1	231.8	226.7	271.6	242.8	203.2	197.0	193.8
70°	1249.1	383.8	154.2	162.7	192.2	196.7	254.8	227.5	191.1	183.6	178.8
71°	1186.2	334.3	144.2	148.9	176.9	183.6	246.7	221.1	185.8	175.0	166.5
72.5°	1065.0	281.6	129.3	131.1	151.2	163.2	229.9	208.7	175.6	160.3	150.7
75°	809.1	205.5	104.1	103.0	111.9	129.5	194.6	186.0	153.9	133.3	127.7
77.5°	349.6	111.9	77.9	78.7	76.0	98.2	153.1	159.8	132.0	108.4	103.3
80°	106.0	64.5	53.2	54.3	50.9	65.9	107.9	125.2	106.0	84.4	77.4
82.5°	54.3	38.5	36.4	35.8	32.4	37.2	65.3	85.6	75.8	52.7	46.6
85°	23.5	20.6	17.9	17.4	15.2	13.4	23.3	42.8	40.1	29.4	28.1
87.5°	5.9	5.4	3.4	3.2	1.9	0.3	0.0	0.0	0.0	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)