

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: P651204

Luminaire Tested: **GALN-SA1D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4003.2 lumens  
Efficiency: N/A  
Efficacy: 61.6 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

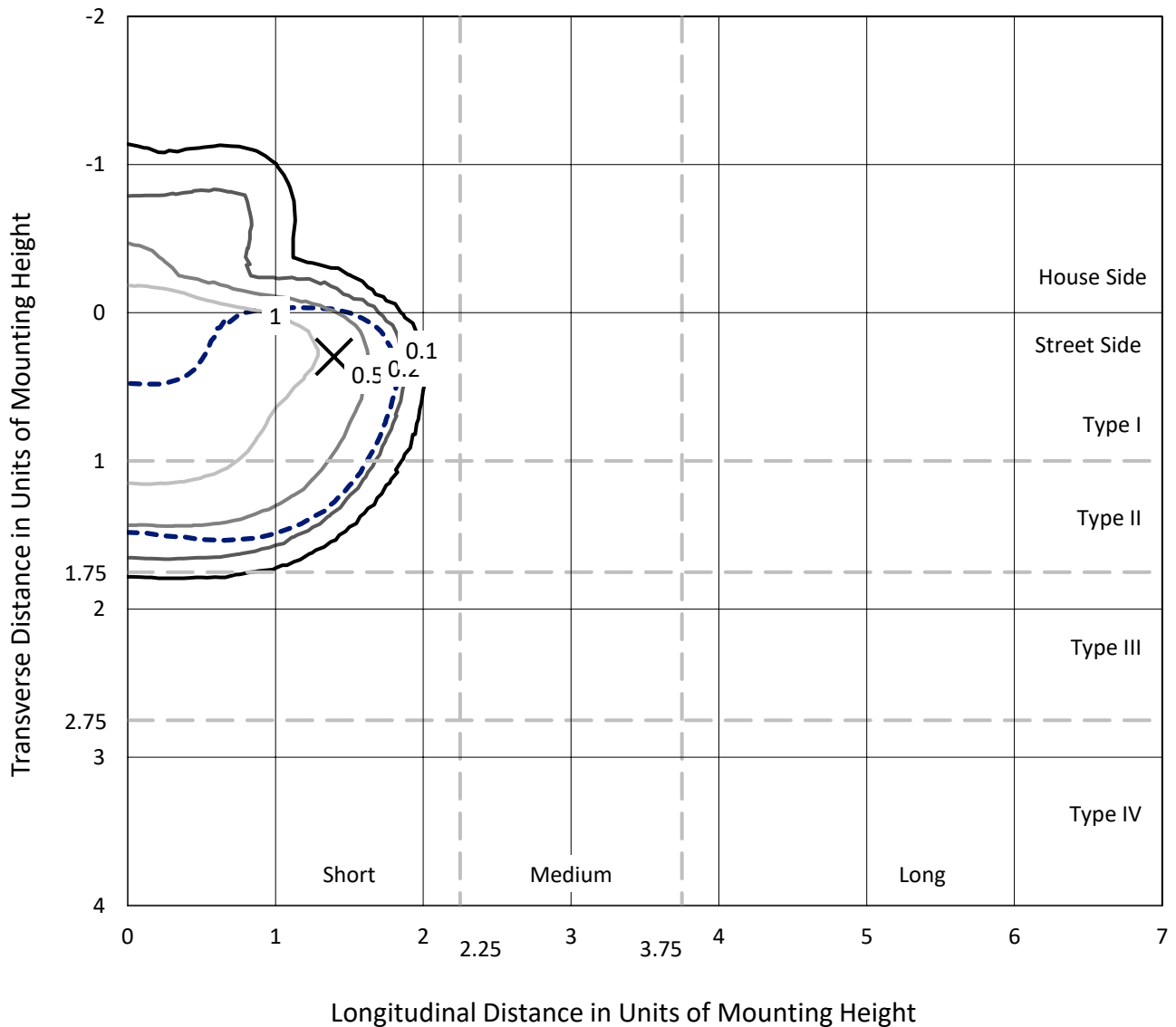
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

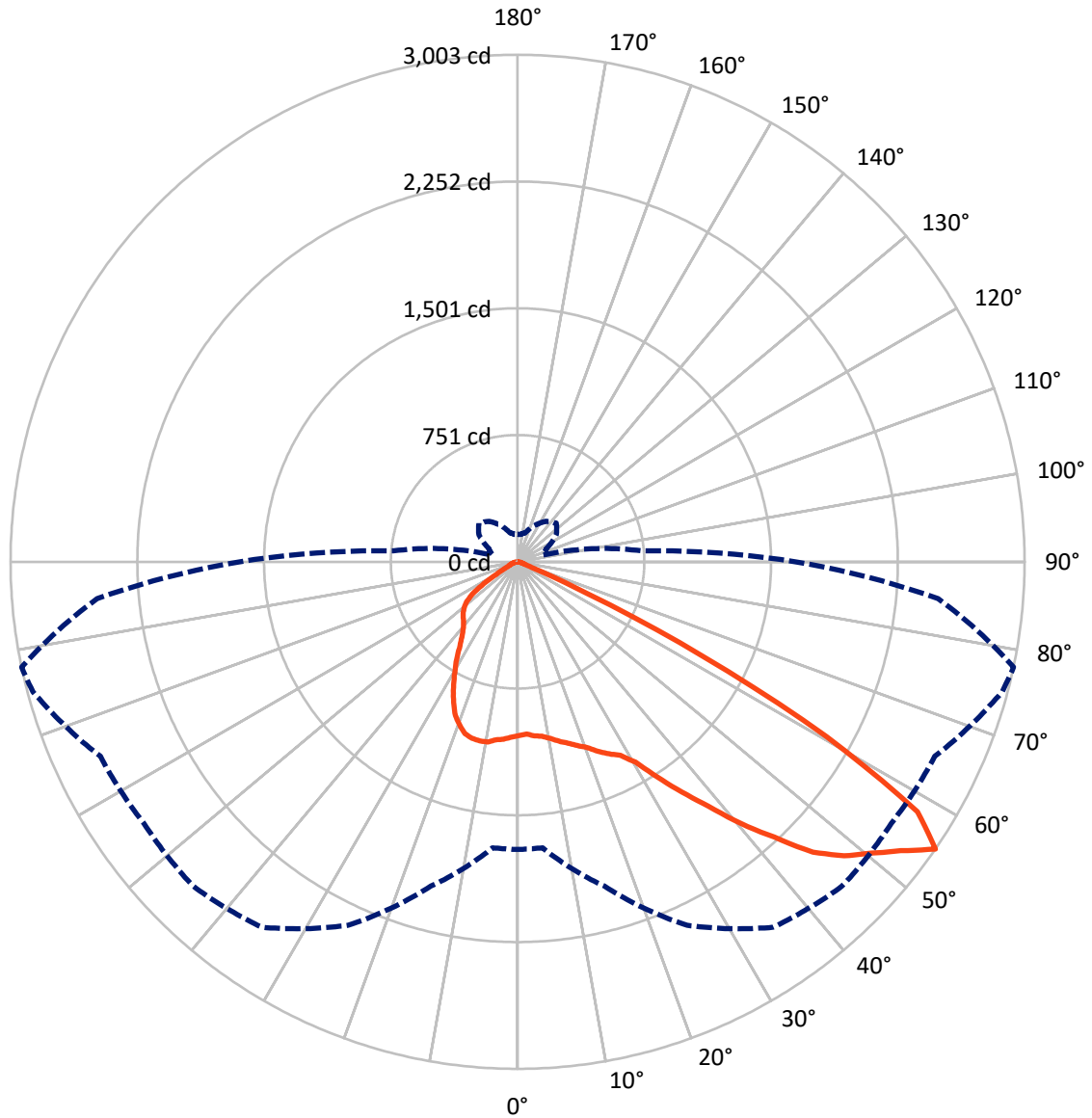
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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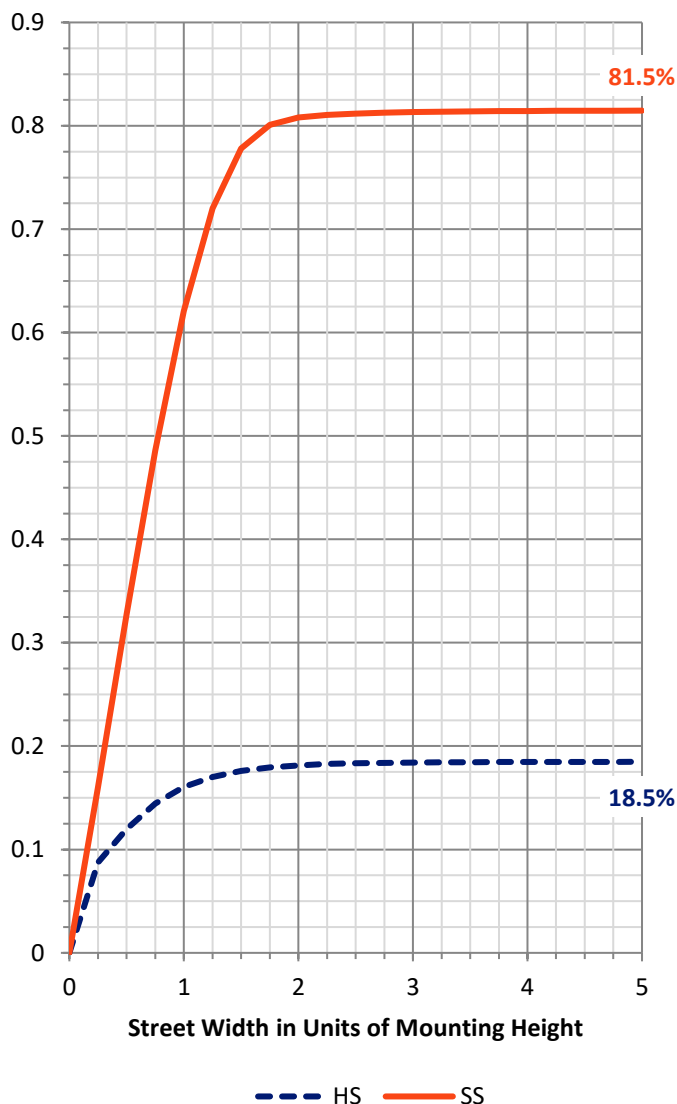
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	743.6	0.0	743.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3259.6	0.0	3259.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	4003.2	0.0	4003.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	2.3
10°-20°	242.9	6.1
20°-30°	425.7	10.6
30°-40°	702.0	17.5
40°-50°	1021.4	25.5
50°-60°	1157.4	28.9
60°-70°	330.9	8.3
70°-80°	25.7	0.6
80°-90°	5.4	0.1
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°	4003.2	100.0
0°-180°	4003.2	100.0

**Coefficient of Utilization**

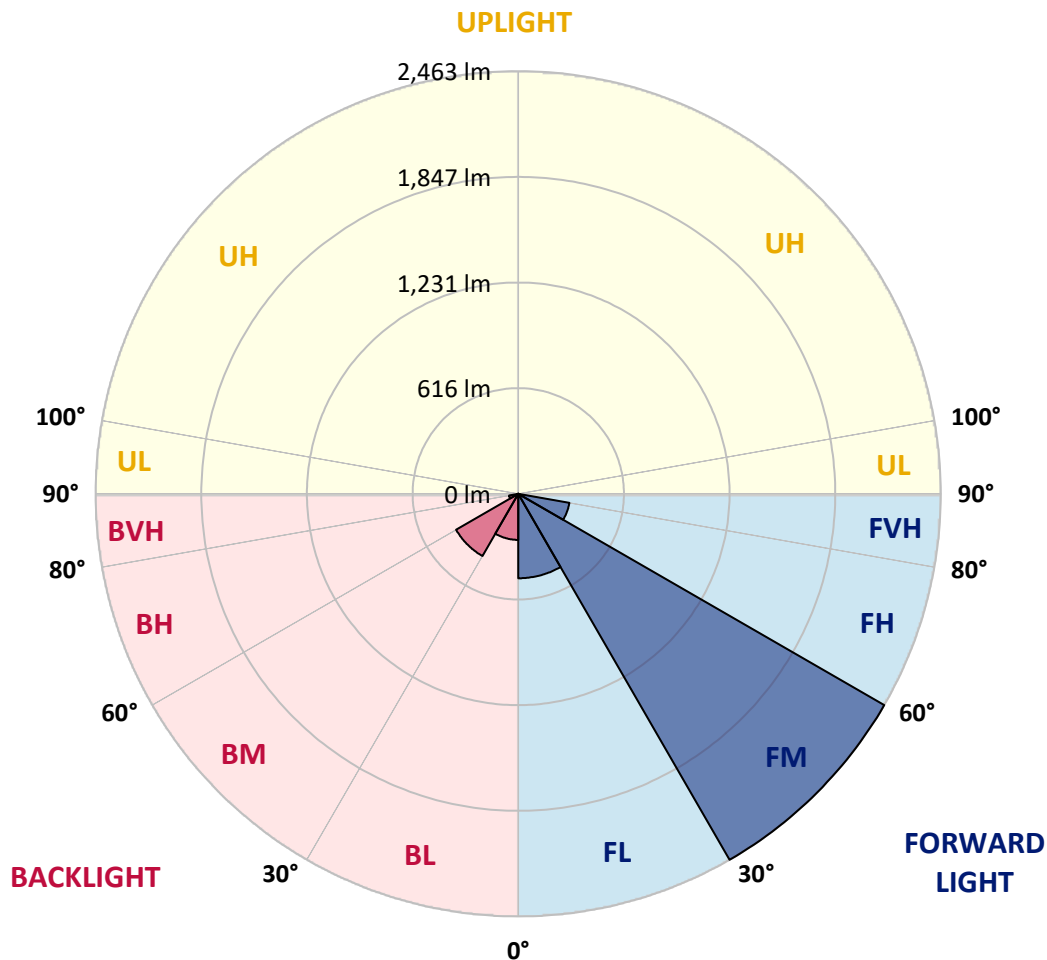


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.1	12.3			
FM (30°-60°)	2462.6	61.5			
FH (60°-80°)	302.3	7.6			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	268.3	6.7	B1/500		
BM (30°-60°)	418.3	10.4	B1/1000		
BH (60°-80°)	54.3	1.4	B0/110		G0/110
BVH (80°-90°)	2.8	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°	55°	65°	75°	78°	85°
0°	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	967.7	977.0	978.4	989.9	989.1	1008.4	1014.2	1014.9	1027.8	1021.3	1037.8
5°	940.5	935.4	933.3	953.4	959.1	976.2	990.5	999.2	1025.6	1034.9	1052.1
7.5°	916.1	916.1	917.5	935.4	933.3	955.5	970.5	997.0	1035.7	1043.5	1064.3
10°	892.5	883.9	894.7	913.2	929.1	939.1	970.5	995.6	1040.7	1063.5	1092.2
12.5°	880.4	884.6	886.1	899.7	916.9	946.9	964.1	1005.6	1076.5	1090.0	1120.8
15°	956.9	948.3	927.6	915.4	929.7	944.0	987.0	1029.2	1095.1	1114.4	1148.7
17.5°	1045.7	1038.6	1021.3	988.4	956.2	982.7	1016.3	1055.0	1115.1	1143.8	1194.6
20°	1161.6	1150.2	1133.0	1068.6	1040.7	1012.1	1047.8	1093.6	1148.0	1173.8	1226.0
22.5°	1299.8	1299.8	1261.1	1183.1	1125.1	1097.9	1113.0	1139.5	1184.5	1219.6	1271.2
25°	1443.7	1439.3	1404.2	1323.4	1225.3	1193.1	1210.3	1228.9	1241.1	1260.4	1294.7
27.5°	1608.2	1583.2	1538.8	1449.4	1362.8	1300.4	1319.1	1302.6	1287.6	1297.6	1347.0
30°	1719.9	1735.7	1679.1	1593.2	1511.6	1442.2	1445.8	1431.5	1362.8	1377.1	1406.4
32.5°	1835.8	1845.8	1814.4	1767.1	1685.5	1604.6	1575.3	1563.2	1511.6	1518.1	1489.4
35°	1932.4	1951.8	1923.9	1903.1	1879.5	1814.4	1733.5	1772.8	1689.8	1674.1	1599.7
37.5°	2021.2	2015.5	2048.4	2027.0	2021.9	1976.1	1887.4	1895.3	1839.4	1835.8	1750.0
40°	2100.6	2102.1	2147.2	2157.2	2137.1	2055.6	1926.7	1989.0	2034.1	2038.4	1928.2
42.5°	2166.5	2185.8	2224.4	2305.3	2275.3	2139.3	1967.5	2035.6	2203.0	2229.5	2097.1
45°	2223.8	2263.1	2311.1	2383.4	2366.2	2258.1	2069.2	2131.4	2383.4	2452.8	2256.0
47.5°	2227.3	2278.9	2331.1	2438.5	2459.9	2321.8	2174.4	2283.1	2526.5	2601.6	2372.0
50°	2213.0	2240.3	2344.7	2461.4	2510.0	2425.6	2321.8	2410.6	2665.4	2712.6	2430.6
52.5°	2043.4	2064.2	2273.9	2482.9	2600.2	2543.0	2517.2	2588.1	2807.1	2842.2	2485.7
55°	1703.4	1699.8	1988.3	2374.8	2641.7	2716.9	2701.1	2726.2	2971.0	3002.5	2499.3
57.5°	1165.2	1230.3	1479.4	1977.5	2387.7	2676.1	2692.5	2651.1	2779.8	2792.0	2178.7
60°	628.4	655.6	856.0	1319.8	1817.9	2180.8	2223.8	2148.6	2138.6	2104.3	1555.3
62.5°	249.8	263.4	377.2	653.5	990.5	1325.5	1417.8	1387.1	1321.2	1231.1	805.2
65°	118.8	127.4	187.5	305.6	439.4	552.5	644.9	673.5	496.7	447.3	265.5
67.5°	80.9	87.3	136.7	174.7	156.8	163.9	213.3	198.2	116.6	99.5	73.8
70°	61.6	65.9	109.5	118.8	70.1	49.4	55.1	51.6	47.9	48.7	47.9
72.5°	43.6	47.3	80.1	70.1	30.8	22.9	29.4	35.1	35.1	35.1	34.4
75°	26.5	30.0	46.5	27.2	12.2	12.2	18.6	23.6	25.1	25.7	24.3
77.5°	13.6	17.2	15.7	7.9	7.9	9.3	13.6	16.5	17.9	17.9	17.2
80°	2.9	2.9	2.9	4.3	7.9	10.0	13.6	15.1	17.2	17.2	15.7
82.5°	0.0	0.8	2.2	4.3	7.1	9.3	12.9	15.1	17.2	17.9	16.5
85°	0.0	0.8	1.4	2.9	5.0	5.7	5.0	4.3	4.3	4.3	4.3
87.5°	0.0	0.0	0.8	0.8	0.8	1.4	1.4	1.4	1.4	1.4	1.4
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°	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	1039.2	1041.4	1037.8	1037.1	1034.3	1042.8	1022.1	1017.0	1029.9	1017.8	1020.6
5°	1052.8	1057.8	1051.4	1040.7	1024.9	1000.6	979.8	952.6	939.7	930.5	929.1
7.5°	1062.9	1066.5	1060.0	1025.6	978.4	916.9	871.0	837.4	810.9	803.1	790.2
10°	1103.6	1104.4	1072.2	996.3	904.0	823.1	752.9	701.4	674.9	658.5	651.3
12.5°	1130.8	1129.4	1064.3	938.3	815.2	707.9	627.7	565.4	541.1	533.2	528.2
15°	1165.2	1157.3	1045.7	878.9	700.7	584.7	512.4	469.5	467.3	462.4	467.3
17.5°	1192.4	1170.3	1018.5	770.9	591.2	481.7	434.5	437.3	443.0	448.1	448.8
20°	1236.8	1190.9	956.2	676.3	489.5	413.0	412.3	425.1	439.4	445.1	450.9
22.5°	1270.4	1199.5	889.6	575.4	406.5	385.1	397.2	416.5	427.3	433.0	441.6
25°	1282.6	1176.0	800.9	474.5	366.4	372.1	390.8	403.7	417.3	423.7	420.2
27.5°	1294.7	1163.8	695.0	390.8	345.0	363.6	379.4	392.2	396.5	405.1	410.8
30°	1324.1	1121.6	599.8	337.8	334.2	357.8	369.3	373.6	385.1	390.1	390.1
32.5°	1347.7	1105.1	498.9	312.8	332.8	360.7	362.1	362.1	363.6	360.0	358.6
35°	1396.4	1048.6	408.6	297.7	332.1	361.5	365.0	352.9	319.9	307.0	303.4
37.5°	1456.5	1012.1	342.1	294.2	337.1	370.0	375.8	329.9	287.0	266.3	262.6
40°	1529.5	986.2	298.5	292.8	348.6	390.1	372.9	312.1	256.3	226.1	224.7
42.5°	1614.7	962.7	269.1	292.0	362.9	410.8	370.0	297.0	224.7	204.7	207.6
45°	1682.7	949.7	249.1	287.0	367.9	423.0	372.1	270.5	211.8	199.0	200.4
47.5°	1735.7	922.6	232.6	278.5	367.2	427.3	352.9	259.8	205.4	209.0	212.6
50°	1737.1	886.1	211.8	259.8	356.4	419.4	330.7	249.8	203.9	219.0	226.1
52.5°	1717.7	834.5	189.6	233.3	331.4	392.2	310.7	245.5	197.6	196.1	204.7
55°	1649.0	737.9	152.5	189.0	279.9	323.5	292.8	237.6	178.2	161.7	163.2
57.5°	1332.6	528.9	112.4	135.2	198.2	236.9	264.1	234.1	160.3	137.4	138.2
60°	825.3	299.9	82.3	92.3	122.4	143.9	214.0	217.6	143.1	116.0	114.5
62.5°	423.7	148.2	63.7	65.1	75.2	84.4	146.8	182.5	129.5	110.3	110.3
65°	141.7	73.0	55.8	50.1	50.1	52.2	88.7	126.7	109.5	92.3	92.3
67.5°	60.8	54.4	48.7	43.6	40.1	37.9	50.1	73.8	81.6	70.1	67.3
70°	47.3	45.8	42.2	36.5	31.5	28.6	29.4	37.9	46.5	45.1	43.6
72.5°	35.1	35.1	33.6	28.6	24.3	20.8	19.3	20.0	22.2	22.9	23.6
75°	24.3	25.1	25.1	22.2	17.9	15.1	12.9	10.8	8.6	7.1	6.5
77.5°	16.5	17.2	18.6	16.5	13.6	10.0	7.9	5.7	3.6	1.4	1.4
80°	14.3	16.5	17.9	16.5	14.3	10.8	7.9	4.3	2.2	0.0	0.0
82.5°	15.1	16.5	18.6	15.7	13.6	10.0	7.9	5.0	2.2	0.8	0.0
85°	3.6	3.6	4.3	5.0	6.5	7.1	5.7	3.6	2.2	0.8	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.8	0.8	0.8	0.8	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)