

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: P650709

Luminaire Tested: **GALN-SA1C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650709  
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-SA1C-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA 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: 3639 lumens  
Efficiency: N/A  
Efficacy: 63.8 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

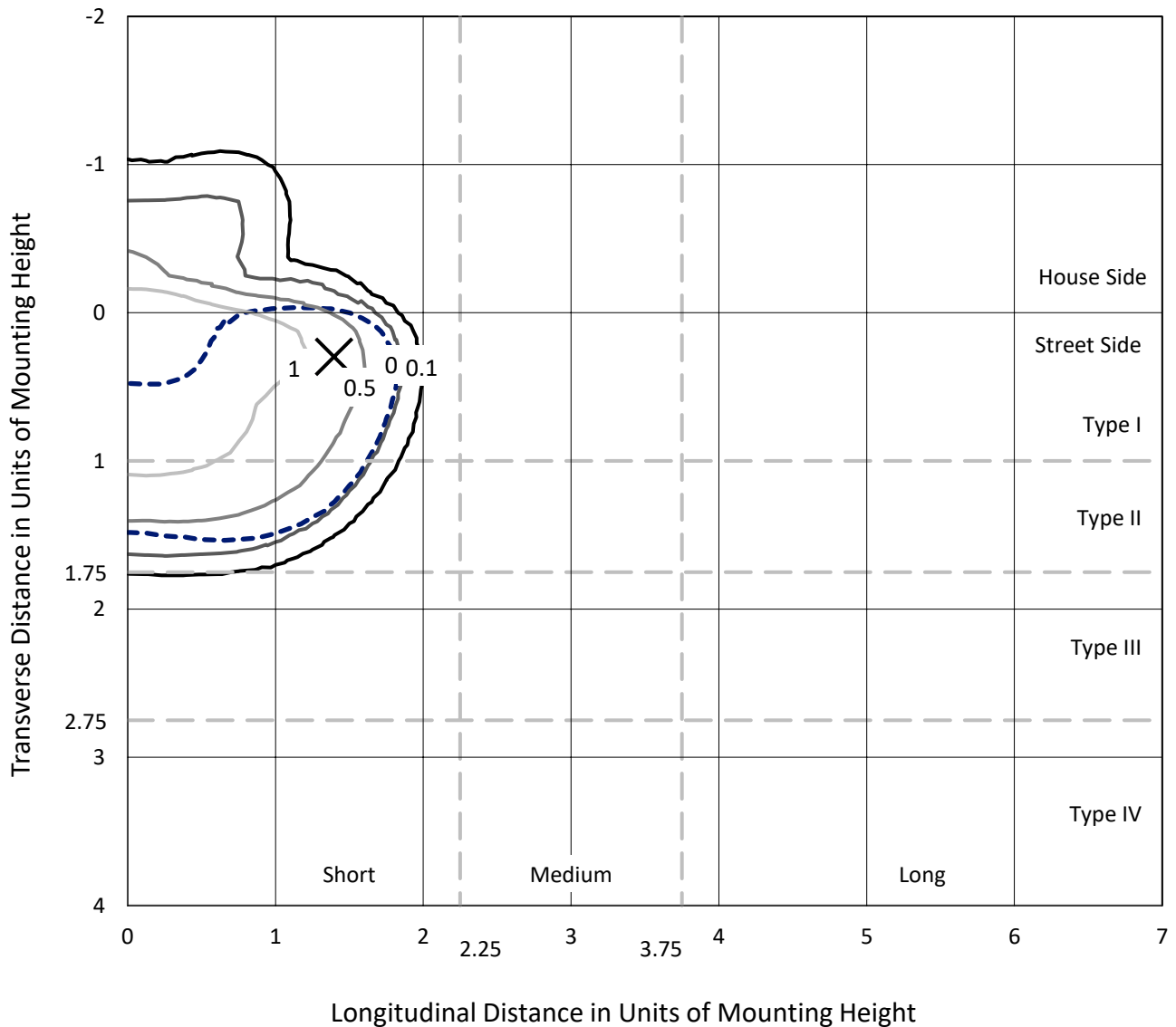
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

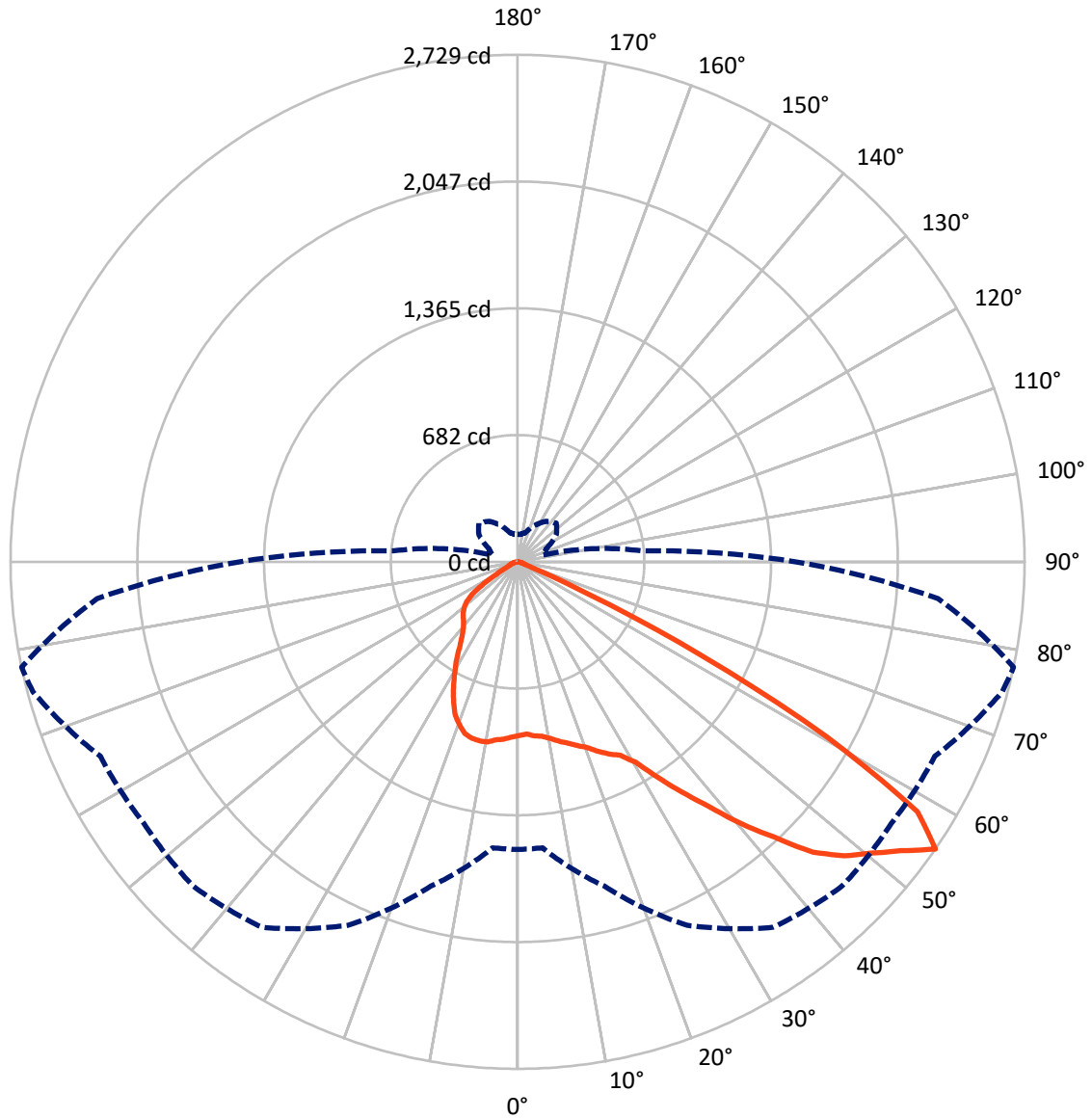
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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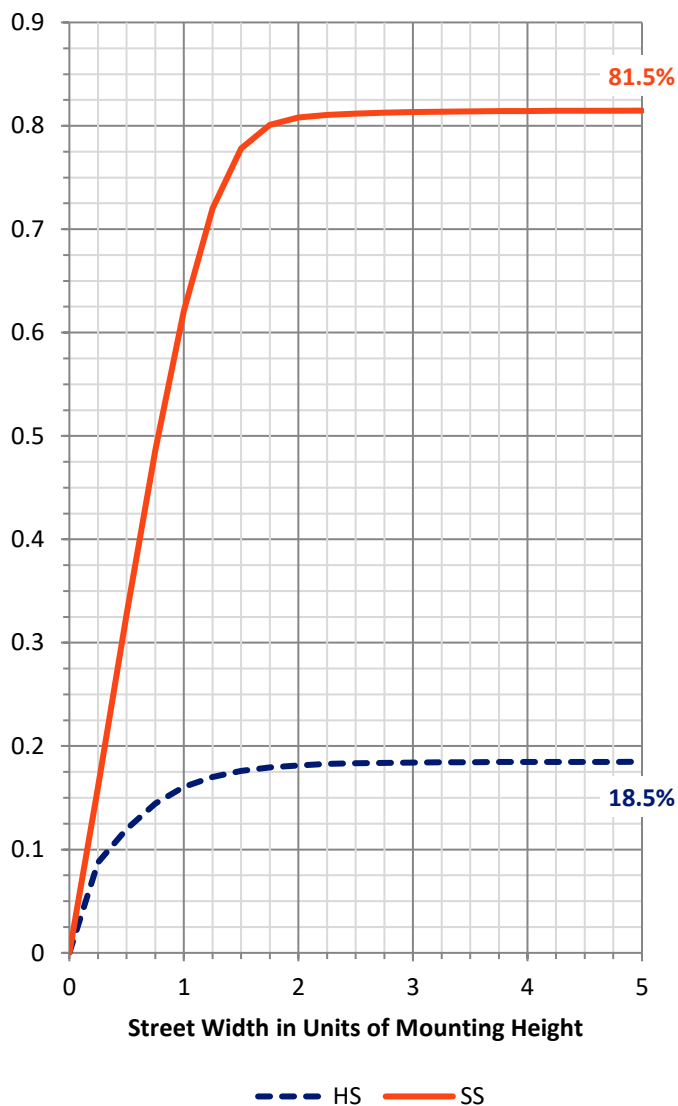
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	675.9	0.0	675.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	2963.1	0.0	2963.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	3639.0	0.0	3639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	2.3
10°-20°	220.8	6.1
20°-30°	387.0	10.6
30°-40°	638.1	17.5
40°-50°	928.5	25.5
50°-60°	1052.1	28.9
60°-70°	300.8	8.3
70°-80°	23.4	0.6
80°-90°	4.9	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°	3639.0	100.0
0°-180°	3639.0	100.0

**Coefficient of Utilization**



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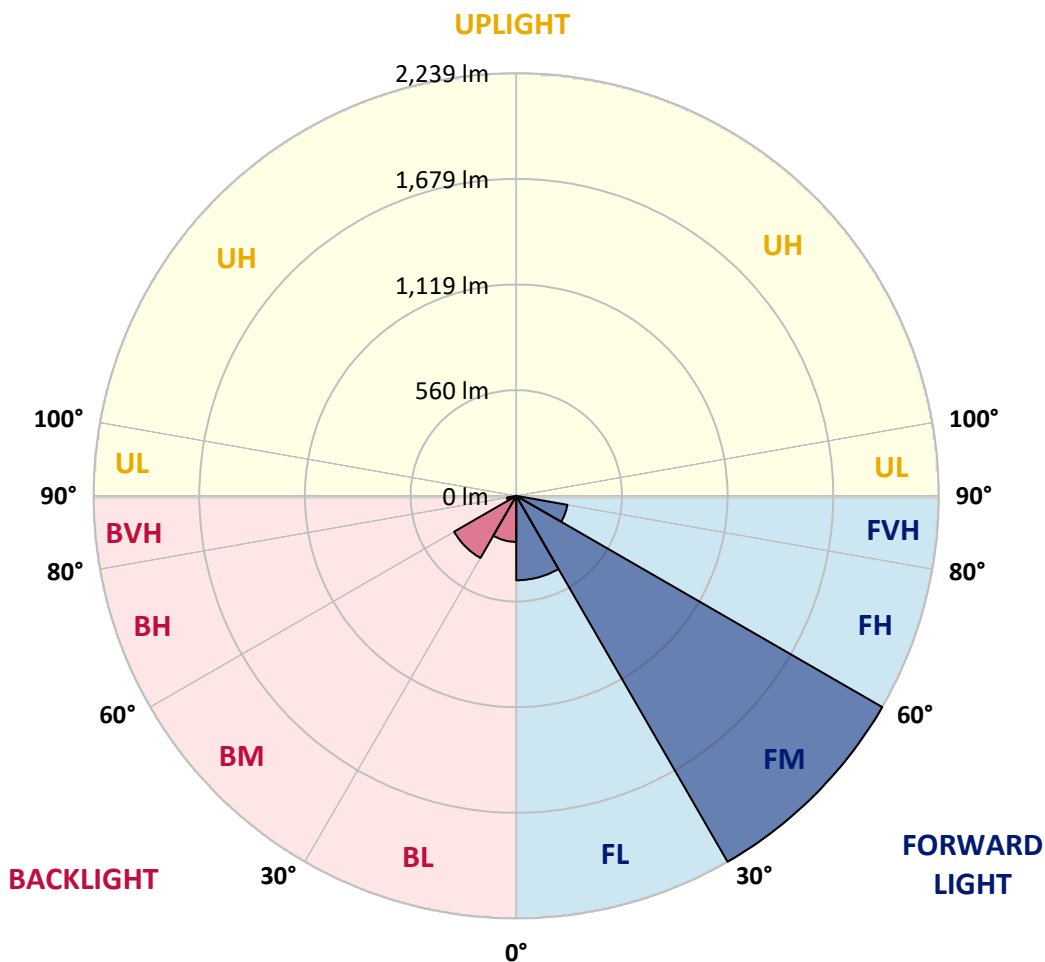
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.3	12.3			
FM (30°-60°)	2238.6	61.5			
FH (60°-80°)	274.8	7.6			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	243.9	6.7	B1/500		
BM (30°-60°)	380.2	10.4	B1/1000		
BH (60°-80°)	49.3	1.4	B0/110		G0/110
BVH (80°-90°)	2.5	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°	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6
2.5°	879.6	888.1	889.4	899.8	899.2	916.7	921.9	922.6	934.3	928.5	943.4
5°	854.9	850.3	848.4	866.7	871.9	887.4	900.5	908.3	932.3	940.8	956.4
7.5°	832.8	832.8	834.1	850.3	848.4	868.6	882.2	906.3	941.4	948.6	967.5
10°	811.3	803.5	813.2	830.2	844.5	853.6	882.2	905.0	946.0	966.8	992.9
12.5°	800.3	804.2	805.4	817.8	833.4	860.8	876.4	914.1	978.5	990.9	1018.9
15°	869.8	862.1	843.2	832.2	845.1	858.2	897.2	935.6	995.4	1013.0	1044.3
17.5°	950.6	944.0	928.5	898.5	869.3	893.3	923.8	959.0	1013.7	1039.7	1085.9
20°	1056.0	1045.5	1030.0	971.4	946.0	920.0	952.5	994.1	1043.6	1067.0	1114.5
22.5°	1181.5	1181.5	1146.4	1075.5	1022.7	998.0	1011.7	1035.8	1076.8	1108.7	1155.5
25°	1312.3	1308.4	1276.6	1203.0	1113.8	1084.6	1100.2	1117.1	1128.2	1145.8	1177.0
27.5°	1461.9	1439.2	1398.8	1317.5	1238.8	1182.2	1199.1	1184.1	1170.5	1179.6	1224.5
30°	1563.4	1577.7	1526.3	1448.3	1374.1	1311.0	1314.2	1301.3	1238.8	1251.8	1278.5
32.5°	1668.9	1678.0	1649.3	1606.4	1532.2	1458.7	1432.1	1421.0	1374.1	1380.0	1353.9
35°	1756.7	1774.3	1748.9	1730.0	1708.5	1649.3	1575.8	1611.6	1536.1	1521.8	1454.2
37.5°	1837.3	1832.1	1862.1	1842.5	1838.0	1796.4	1715.7	1722.9	1672.1	1668.9	1590.8
40°	1909.6	1910.8	1951.9	1961.0	1942.7	1868.6	1751.5	1808.1	1849.0	1853.0	1752.7
42.5°	1969.5	1987.0	2022.1	2095.6	2068.4	1944.7	1788.6	1850.4	2002.6	2026.6	1906.3
45°	2021.5	2057.3	2100.8	2166.6	2150.9	2052.7	1881.0	1937.6	2166.6	2229.7	2050.8
47.5°	2024.7	2071.6	2119.1	2216.6	2236.2	2110.6	1976.6	2075.5	2296.7	2365.0	2156.2
50°	2011.8	2036.4	2131.4	2237.5	2281.7	2204.9	2110.6	2191.3	2422.9	2465.8	2209.5
52.5°	1857.5	1876.4	2067.0	2257.0	2363.7	2311.7	2288.2	2352.6	2551.8	2583.6	2259.6
55°	1548.4	1545.3	1807.4	2158.8	2401.5	2469.8	2455.5	2478.2	2700.7	2729.4	2272.0
57.5°	1059.2	1118.4	1344.8	1797.6	2170.5	2432.7	2447.6	2409.9	2527.0	2538.1	1980.5
60°	571.2	595.9	778.2	1199.8	1652.6	1982.4	2021.5	1953.1	1944.1	1912.9	1413.8
62.5°	227.1	239.4	342.9	594.0	900.5	1205.0	1288.9	1260.9	1201.0	1119.0	731.9
65°	108.0	115.8	170.5	277.8	399.5	502.2	586.2	612.2	451.5	406.6	241.4
67.5°	73.5	79.4	124.3	158.8	142.5	149.0	193.9	180.2	106.1	90.4	67.0
70°	55.9	59.9	99.6	108.0	63.7	44.9	50.1	46.8	43.6	44.2	43.6
72.5°	39.7	43.0	72.8	63.7	28.0	20.9	26.7	31.9	31.9	31.9	31.2
75°	24.1	27.3	42.3	24.7	11.1	11.1	16.9	21.4	22.8	23.5	22.1
77.5°	12.4	15.6	14.3	7.1	7.1	8.5	12.4	15.0	16.2	16.2	15.6
80°	2.6	2.6	2.6	3.9	7.1	9.1	12.4	13.6	15.6	15.6	14.3
82.5°	0.0	0.7	1.9	3.9	6.5	8.5	11.7	13.6	15.6	16.2	15.0
85°	0.0	0.7	1.3	2.6	4.5	5.2	4.5	3.9	3.9	3.9	3.9
87.5°	0.0	0.0	0.7	0.7	0.7	1.3	1.3	1.3	1.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6
2.5°	944.7	946.6	943.4	942.8	940.2	948.0	929.1	924.5	936.2	925.2	927.8
5°	957.1	961.6	955.8	946.0	931.7	909.5	890.7	866.0	854.3	845.8	844.5
7.5°	966.1	969.4	963.5	932.3	889.4	833.4	791.8	761.2	737.1	730.0	718.3
10°	1003.2	1003.9	974.6	905.7	821.7	748.2	684.5	637.6	613.5	598.5	592.1
12.5°	1028.0	1026.7	967.5	852.9	741.1	643.4	570.6	514.0	491.9	484.8	480.1
15°	1059.2	1052.1	950.6	798.9	637.0	531.6	465.8	426.8	424.9	420.3	424.9
17.5°	1084.0	1063.8	925.9	700.7	537.4	437.9	394.9	397.5	402.8	407.3	408.0
20°	1124.2	1082.6	869.3	614.9	445.1	375.4	374.7	386.4	399.5	404.7	409.9
22.5°	1154.9	1090.4	808.7	523.1	369.5	350.0	361.1	378.7	388.5	393.6	401.4
25°	1165.9	1069.0	728.1	431.3	333.1	338.3	355.2	366.9	379.3	385.2	381.9
27.5°	1177.0	1057.9	631.8	355.2	313.6	330.5	344.8	356.5	360.5	368.3	373.5
30°	1203.6	1019.5	545.2	307.1	303.9	325.3	335.7	339.6	350.0	354.6	354.6
32.5°	1225.1	1004.6	453.5	284.3	302.5	327.9	329.3	329.3	330.5	327.2	326.0
35°	1269.3	953.2	371.5	270.6	301.9	328.6	331.8	320.8	290.8	279.1	275.8
37.5°	1324.0	920.0	311.0	267.4	306.5	336.4	341.6	299.9	260.9	242.0	238.8
40°	1390.3	896.6	271.3	266.1	316.9	354.6	339.0	283.7	233.0	205.6	204.3
42.5°	1467.8	875.1	244.6	265.4	329.8	373.5	336.4	270.0	204.3	186.1	188.7
45°	1529.6	863.4	226.4	260.9	334.4	384.5	338.3	245.9	192.6	180.9	182.2
47.5°	1577.7	838.6	211.4	253.1	333.8	388.5	320.8	236.2	186.7	190.0	193.3
50°	1579.1	805.4	192.6	236.2	324.0	381.2	300.6	227.1	185.4	199.1	205.6
52.5°	1561.5	758.6	172.4	212.1	301.2	356.5	282.4	223.2	179.6	178.3	186.1
55°	1499.0	670.8	138.6	171.7	254.4	294.1	266.1	216.0	162.0	147.0	148.4
57.5°	1211.5	480.8	102.2	123.0	180.2	215.4	240.1	212.8	145.7	124.9	125.6
60°	750.2	272.6	74.8	83.9	111.3	130.8	194.5	197.8	130.1	105.4	104.1
62.5°	385.2	134.6	57.9	59.2	68.3	76.8	133.4	165.9	117.7	100.2	100.2
65°	128.8	66.4	50.7	45.6	45.6	47.5	80.7	115.1	99.6	83.9	83.9
67.5°	55.3	49.5	44.2	39.7	36.4	34.5	45.6	67.0	74.2	63.7	61.1
70°	43.0	41.6	38.3	33.2	28.6	26.0	26.7	34.5	42.3	41.0	39.7
72.5°	31.9	31.9	30.6	26.0	22.1	18.8	17.6	18.2	20.2	20.9	21.4
75°	22.1	22.8	22.8	20.2	16.2	13.6	11.7	9.8	7.8	6.5	5.9
77.5°	15.0	15.6	16.9	15.0	12.4	9.1	7.1	5.2	3.3	1.3	1.3
80°	13.0	15.0	16.2	15.0	13.0	9.8	7.1	3.9	1.9	0.0	0.0
82.5°	13.6	15.0	16.9	14.3	12.4	9.1	7.1	4.5	1.9	0.7	0.0
85°	3.3	3.3	3.9	4.5	5.9	6.5	5.2	3.3	1.9	0.7	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	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)