

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: P651208

Luminaire Tested: **GALN-SA1D-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6527.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

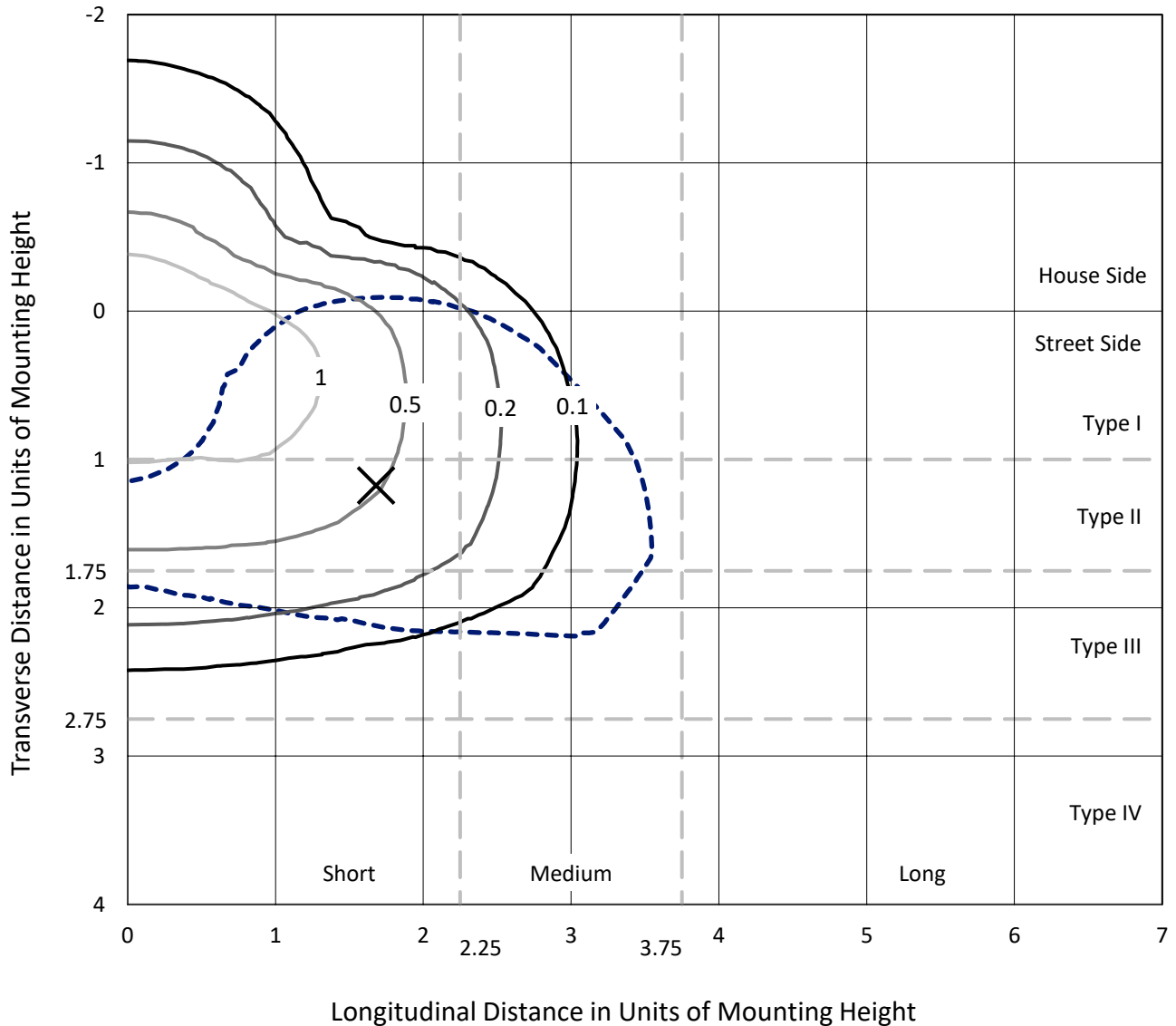
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1D-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

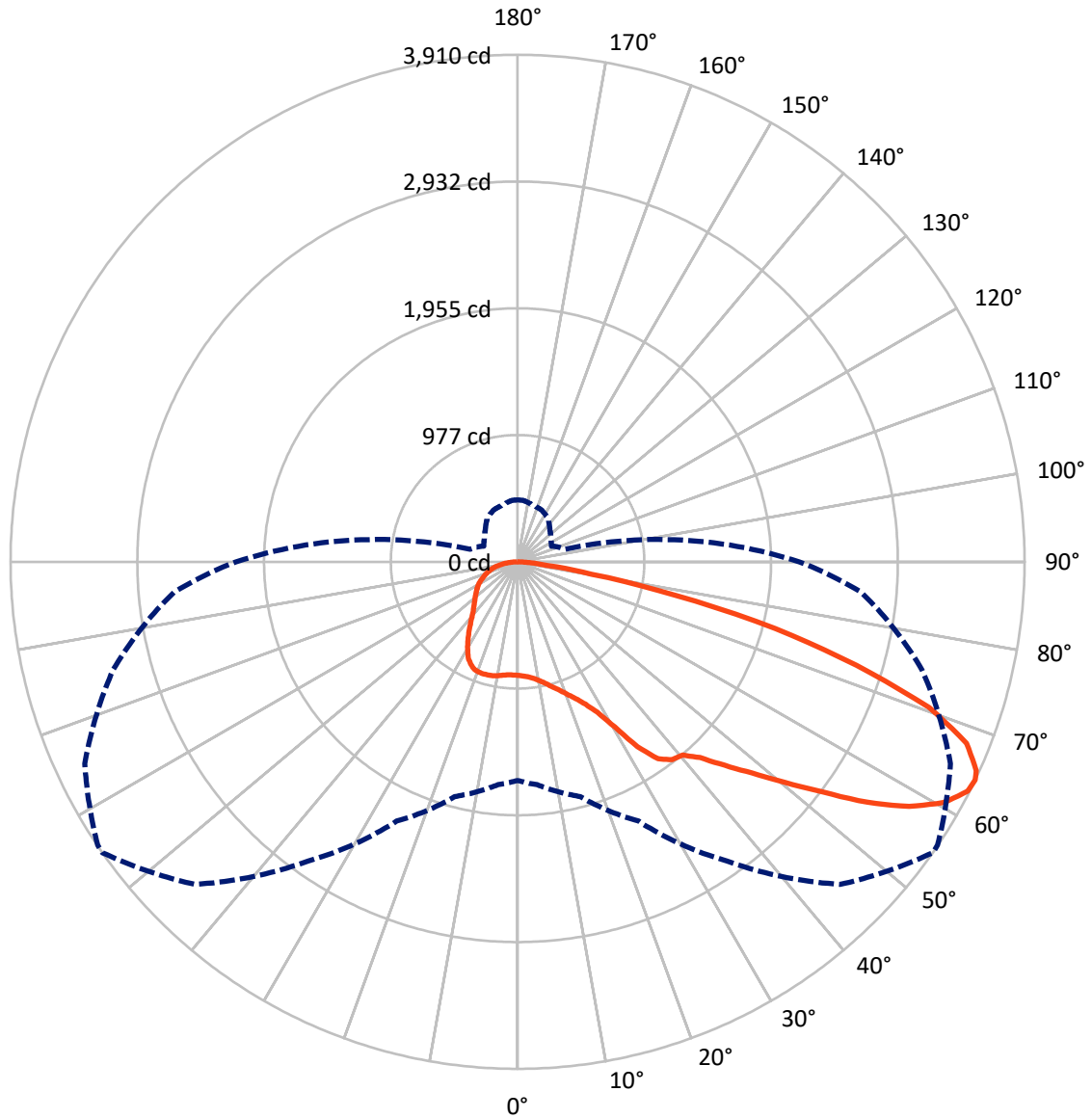
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA1D-840-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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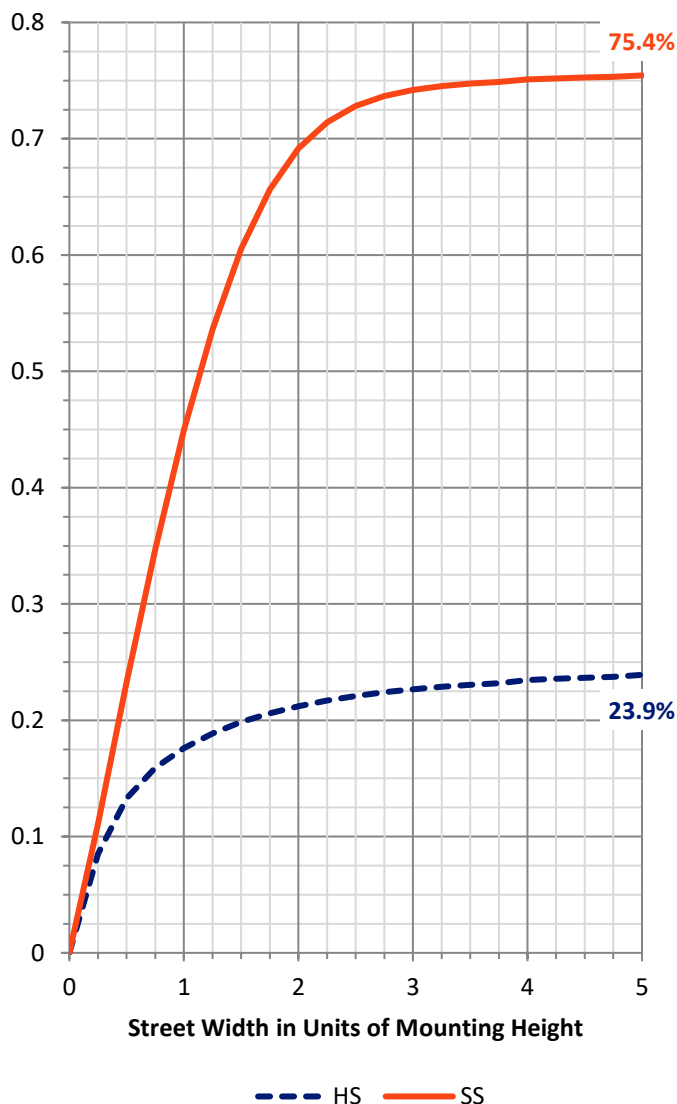
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1585.7	0.0	1585.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	4942.1	0.0	4942.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	6527.8	0.0	6527.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	268.8	4.1
20°-30°	478.6	7.3
30°-40°	736.3	11.3
40°-50°	1043.8	16.0
50°-60°	1510.9	23.1
60°-70°	1563.6	24.0
70°-80°	732.2	11.2
80°-90°	108.4	1.7
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°	6527.8	100.0
0°-180°	6527.8	100.0

Coefficient of Utilization

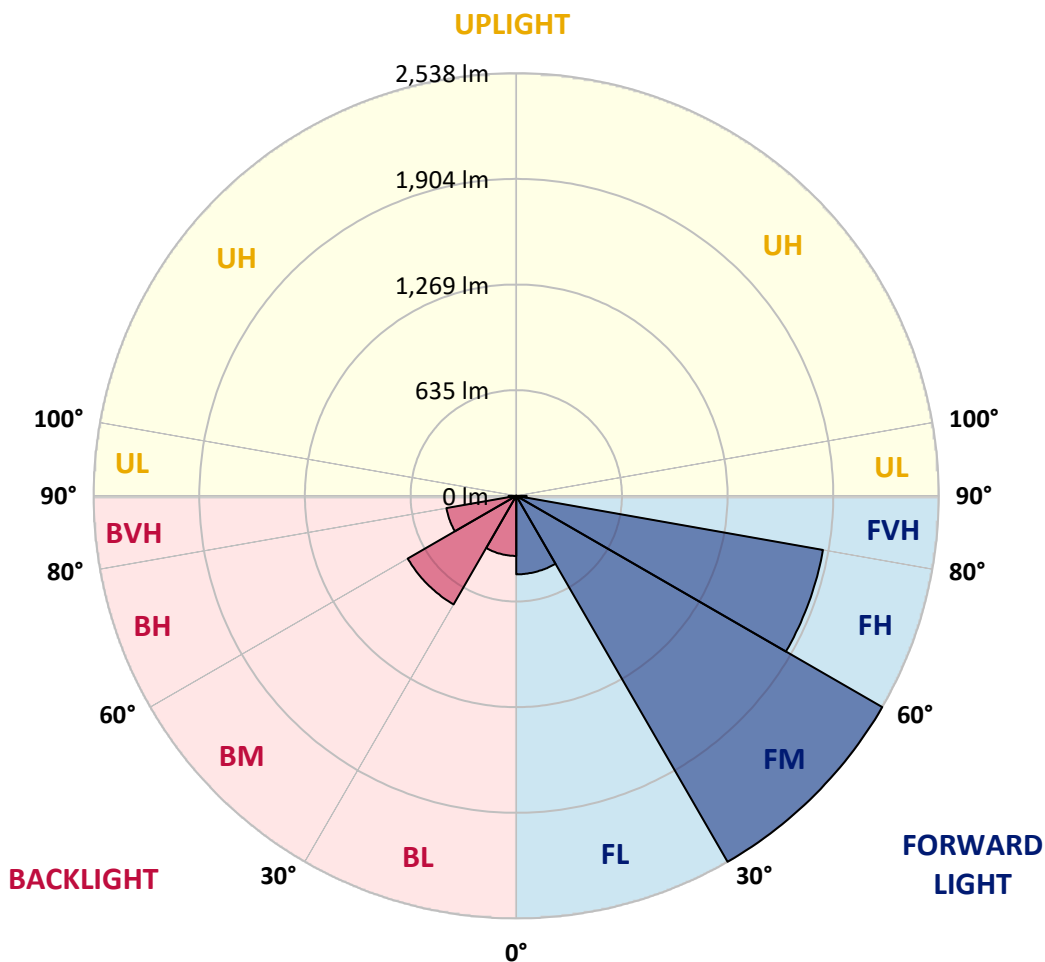


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 CATALOG NUMBER: GALN-SA1D-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.4	7.2			
FM (30°-60°)	2538.2	38.9			
FH (60°-80°)	1870.4	28.7			G2/5000
FVH (80°-90°)	62.1	1.0			G1/100
BL (0°-30°)	361.2	5.5	B1/500		
BM (30°-60°)	752.8	11.5	B1/1000		
BH (60°-80°)	425.4	6.5	B1/500		G1/500
BVH (80°-90°)	46.3	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8
2.5°	885.7	885.3	886.4	885.3	886.0	883.5	882.4	883.1	882.0	880.2	876.9
5°	896.6	896.3	896.6	895.2	895.8	894.4	891.9	892.6	890.8	886.8	882.0
7.5°	915.2	913.7	913.7	913.3	911.9	909.7	907.9	907.1	905.3	900.2	893.0
10°	939.1	939.1	939.5	936.6	938.4	934.4	932.6	932.2	926.0	919.5	909.3
12.5°	970.9	972.6	971.5	970.1	969.3	967.9	961.7	963.2	956.2	944.9	932.6
15°	1010.1	1013.0	1011.2	1010.5	1008.6	1003.2	1000.6	999.5	990.4	974.0	957.7
17.5°	1062.2	1058.5	1057.1	1055.2	1047.5	1043.6	1039.2	1038.5	1030.5	1011.2	985.7
20°	1107.6	1112.7	1109.8	1108.0	1100.4	1092.7	1089.4	1088.3	1081.4	1060.3	1019.5
22.5°	1161.8	1162.9	1164.0	1159.7	1156.0	1150.2	1144.3	1142.6	1140.0	1118.2	1068.3
25°	1219.7	1224.1	1220.5	1216.1	1211.7	1211.3	1216.8	1216.1	1215.0	1193.9	1133.1
27.5°	1314.0	1317.9	1319.0	1314.3	1297.6	1299.0	1311.4	1315.4	1332.1	1297.2	1216.4
30°	1367.0	1371.1	1380.2	1398.0	1424.6	1447.9	1477.7	1486.8	1502.8	1436.9	1315.4
32.5°	1399.8	1401.3	1417.7	1450.7	1530.5	1617.4	1698.6	1701.8	1712.0	1619.6	1406.0
35°	1451.5	1452.6	1465.7	1502.0	1595.5	1740.4	1865.9	1870.0	1861.6	1676.4	1448.2
37.5°	1515.1	1518.1	1526.4	1556.6	1668.4	1843.4	1935.4	1932.5	1858.3	1721.4	1522.8
40°	1607.9	1607.9	1598.2	1638.9	1745.2	1902.3	1959.8	1954.7	1935.1	1852.1	1636.3
42.5°	1689.8	1688.4	1711.7	1739.3	1841.2	1993.3	2062.0	2070.5	2102.8	2016.2	1765.5
45°	1796.5	1803.0	1816.1	1866.3	2004.6	2148.7	2237.5	2245.5	2291.3	2209.4	1916.5
47.5°	1904.1	1906.3	1947.4	2014.4	2206.9	2359.3	2432.1	2445.2	2487.1	2435.4	2079.2
50°	1980.6	2001.3	2067.2	2172.6	2415.4	2616.3	2673.0	2688.7	2762.5	2681.4	2268.8
52.5°	2061.4	2081.7	2162.1	2322.9	2654.8	2879.0	2948.8	2959.4	3036.2	2930.3	2462.7
55°	2130.5	2149.4	2240.8	2456.1	2845.4	3147.1	3273.8	3261.4	3298.1	3122.0	2612.2
57.5°	2141.8	2157.0	2272.0	2541.2	2988.8	3377.1	3558.7	3565.9	3523.4	3265.4	2735.6
60°	2054.4	2085.7	2217.8	2532.2	3053.3	3537.2	3771.1	3776.3	3655.5	3338.9	2784.7
62.5°	1899.7	1896.5	2056.2	2385.9	2963.0	3573.6	3896.4	3890.9	3707.1	3303.6	2737.0
64°	1686.2	1725.5	1874.7	2206.2	2817.4	3517.6	3909.5	3906.5	3682.4	3230.1	2655.9
65°	1555.9	1553.7	1701.1	2059.2	2672.6	3433.1	3886.2	3882.1	3630.7	3164.3	2593.0
67.5°	1123.2	1128.4	1273.9	1589.1	2172.6	3103.1	3734.4	3719.5	3426.9	2945.9	2353.5
70°	680.5	683.3	797.6	1054.1	1559.6	2508.5	3366.2	3366.9	3115.1	2619.9	2003.1
72.5°	358.4	366.1	411.9	598.5	947.1	1760.0	2730.9	2795.7	2674.5	2236.0	1582.5
75°	199.4	200.5	232.9	295.1	483.2	985.0	2052.6	2071.1	2117.4	1799.7	1170.3
77.5°	152.1	154.3	164.5	190.7	263.1	456.7	1242.2	1335.4	1492.3	1268.8	667.7
80°	123.4	125.6	134.3	150.0	175.0	216.5	577.1	627.3	798.7	563.3	260.5
82.5°	96.0	94.6	105.9	116.1	127.3	128.1	236.9	262.0	325.3	242.4	112.8
85°	71.3	71.3	80.4	78.2	82.2	74.9	104.5	115.4	130.3	102.9	52.4
87.5°	28.3	31.3	52.7	47.3	36.8	29.4	38.6	40.8	45.2	40.4	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651208
 CATALOG NUMBER: GALN-SA1D-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8
2.5°	877.3	878.4	875.8	874.1	873.3	872.2	871.1	871.4	873.0	874.4	874.1
5°	881.6	882.0	877.7	875.5	874.1	872.5	872.5	873.6	876.6	878.8	878.8
7.5°	892.6	892.6	886.4	882.4	880.2	877.7	876.9	877.3	879.5	882.4	882.7
10°	909.7	908.2	900.2	894.1	890.0	883.8	878.4	875.5	876.6	878.4	878.4
12.5°	930.4	926.4	916.3	907.9	898.0	886.4	875.1	869.3	868.9	870.8	870.0
15°	952.6	948.2	934.1	918.8	901.6	884.6	871.1	862.8	856.2	854.4	858.4
17.5°	978.4	969.3	949.7	928.6	903.1	880.9	859.8	842.8	831.1	827.8	828.9
20°	1009.7	997.8	971.2	938.1	902.1	867.8	835.1	812.2	793.2	787.4	788.2
22.5°	1053.0	1032.3	993.4	942.8	893.0	843.1	797.6	767.7	744.9	735.7	741.2
25°	1102.1	1079.6	1014.5	941.7	869.3	803.4	753.2	714.3	693.6	680.1	683.0
27.5°	1169.8	1129.8	1037.0	931.9	835.4	755.0	696.9	660.1	641.2	634.2	637.5
30°	1256.5	1195.0	1061.4	905.3	782.0	693.9	640.1	616.0	604.8	596.0	599.0
32.5°	1319.0	1240.8	1066.9	860.6	724.1	638.2	601.5	583.7	571.3	562.9	564.7
35°	1363.8	1279.7	1064.3	805.6	663.7	592.4	571.0	556.3	536.3	518.1	514.9
37.5°	1423.8	1328.5	1045.8	745.5	604.0	561.5	546.1	519.2	490.5	466.1	465.0
40°	1515.9	1385.6	1006.1	675.0	553.1	538.5	520.0	485.0	454.1	434.5	433.0
42.5°	1610.9	1438.4	952.3	600.7	511.2	514.5	492.0	457.4	438.5	425.7	424.3
45°	1726.9	1495.6	894.1	536.3	480.3	492.0	467.6	447.6	436.3	427.9	425.7
47.5°	1852.5	1554.1	828.6	478.5	454.1	471.2	457.4	448.3	442.1	436.3	433.7
50°	1987.9	1619.6	767.1	431.9	430.4	449.8	456.3	453.0	449.3	447.6	445.4
52.5°	2136.3	1686.5	715.4	399.1	409.7	434.5	456.7	459.2	459.2	458.1	456.7
55°	2236.7	1733.1	663.0	372.6	388.6	422.1	455.9	465.7	469.4	467.9	466.5
57.5°	2311.0	1758.6	597.1	349.7	370.8	410.1	452.0	466.5	470.1	472.0	471.2
60°	2326.2	1734.9	510.9	325.6	351.5	392.6	437.4	455.6	460.3	471.5	472.6
62.5°	2257.5	1662.2	425.0	302.0	327.8	366.1	417.7	443.2	452.6	470.1	472.0
64°	2173.1	1580.7	377.4	287.1	312.6	351.1	407.9	439.9	452.3	475.6	477.0
65°	2111.2	1521.4	347.5	277.6	302.8	341.3	402.4	441.0	455.6	483.9	486.1
67.5°	1883.4	1317.2	287.5	255.4	279.5	324.5	403.5	450.1	454.8	487.2	486.9
70°	1558.5	1048.6	240.9	235.1	256.9	311.1	399.1	435.6	435.9	457.4	452.3
72.5°	1167.0	775.1	208.9	214.0	231.8	279.1	376.9	415.9	409.7	412.6	407.5
75°	801.6	512.7	179.7	191.4	205.6	246.7	345.7	377.7	367.9	364.2	360.6
77.5°	427.9	283.4	149.5	169.2	178.6	213.2	301.7	332.6	322.4	308.2	303.4
80°	173.2	133.6	120.4	140.1	145.6	171.7	251.0	270.4	262.7	238.0	229.9
82.5°	87.0	80.1	94.6	110.3	110.6	122.6	186.7	204.9	187.8	157.5	150.6
85°	45.5	46.9	65.1	77.5	68.4	66.2	112.1	124.0	113.9	99.0	89.1
87.5°	16.4	18.9	34.2	33.8	24.1	12.7	24.7	12.0	6.6	4.0	5.1
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)