

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: P650713

Luminaire Tested: **GALN-SA1C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650713
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-SA1C-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5932.4 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

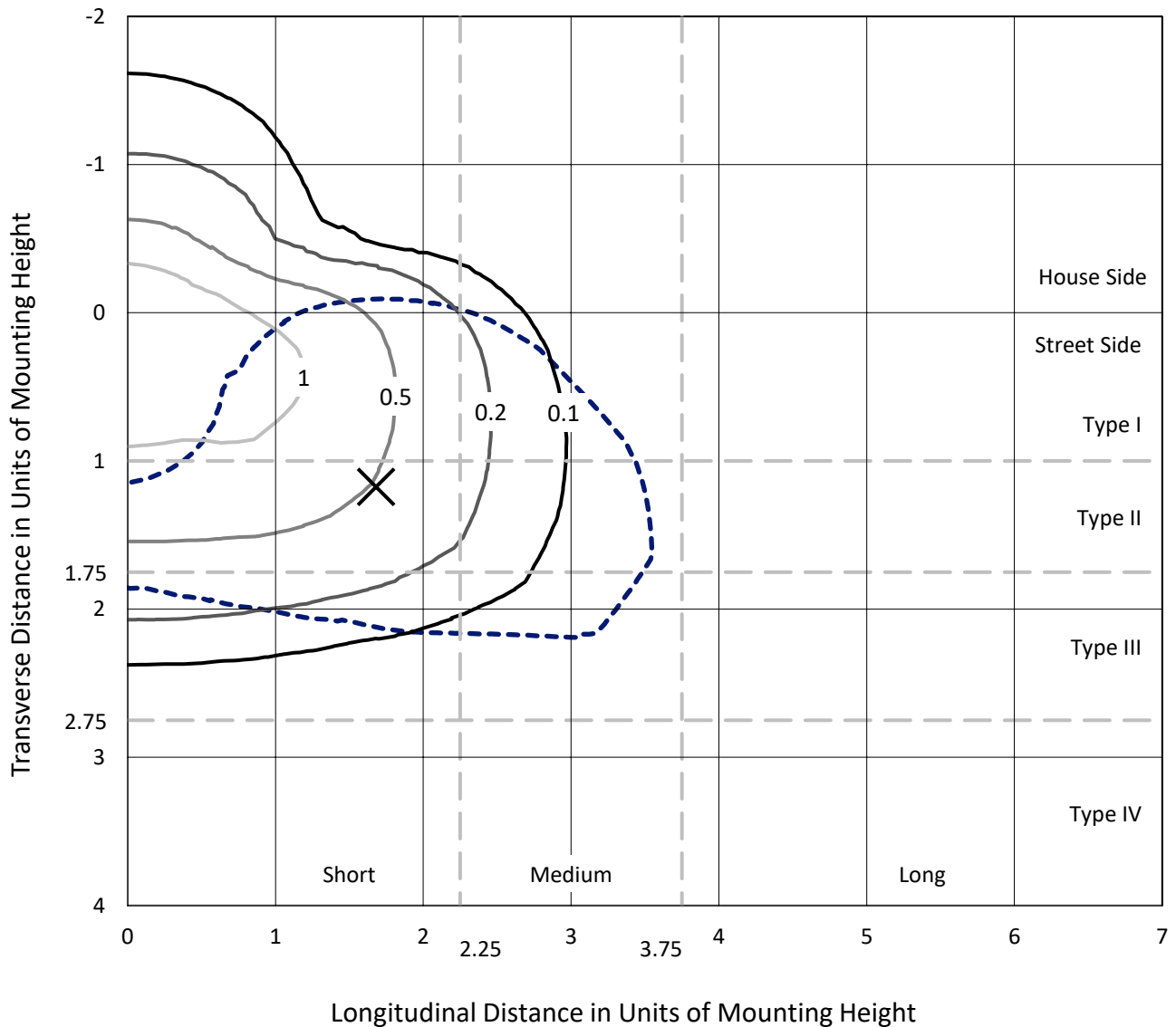
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650713
 CATALOG NUMBER: GALN-SA1C-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

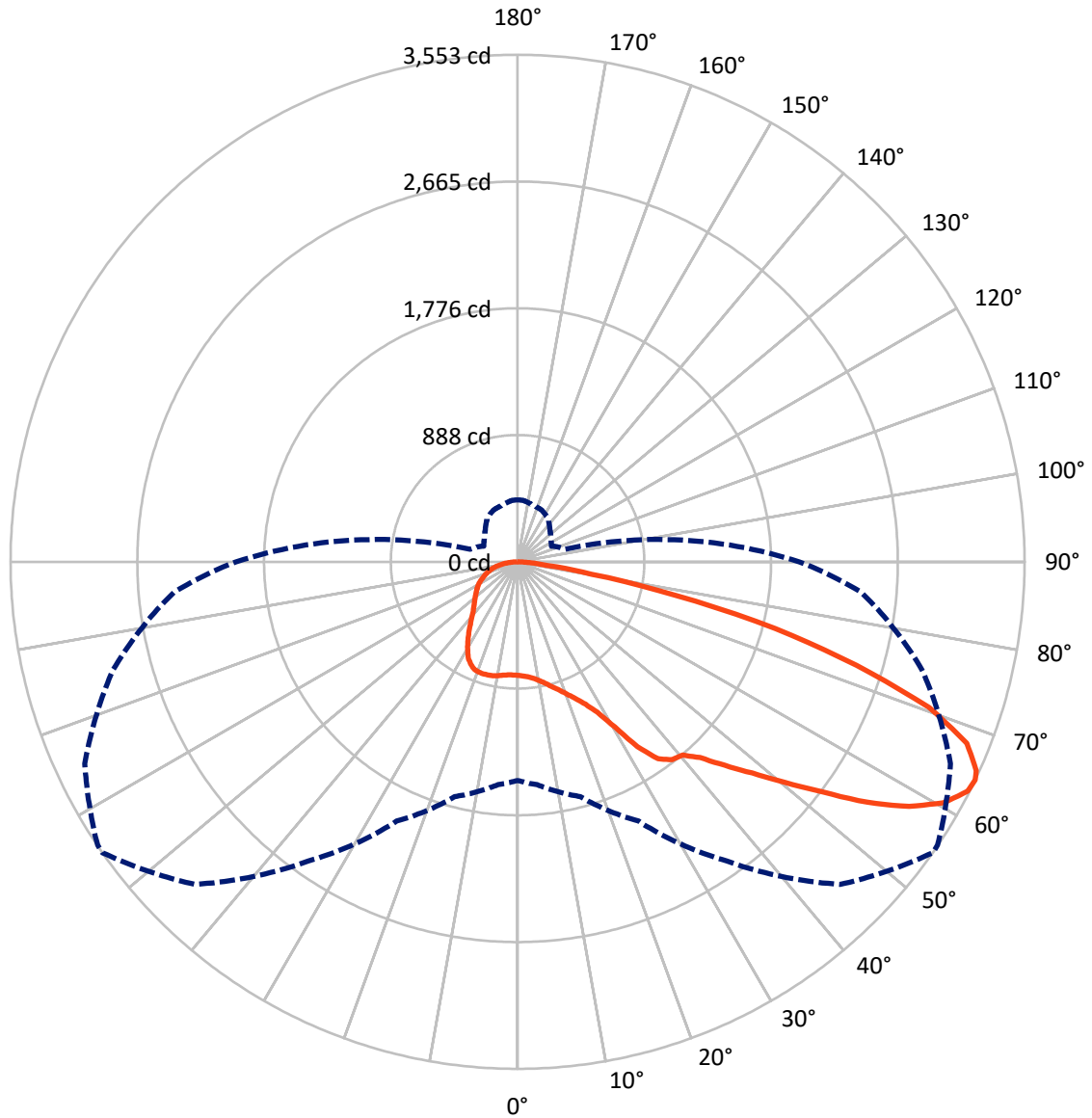
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

REPORT NUMBER: P650713
CATALOG NUMBER: GALN-SA1C-840-U-T3

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1C-840-U-T3

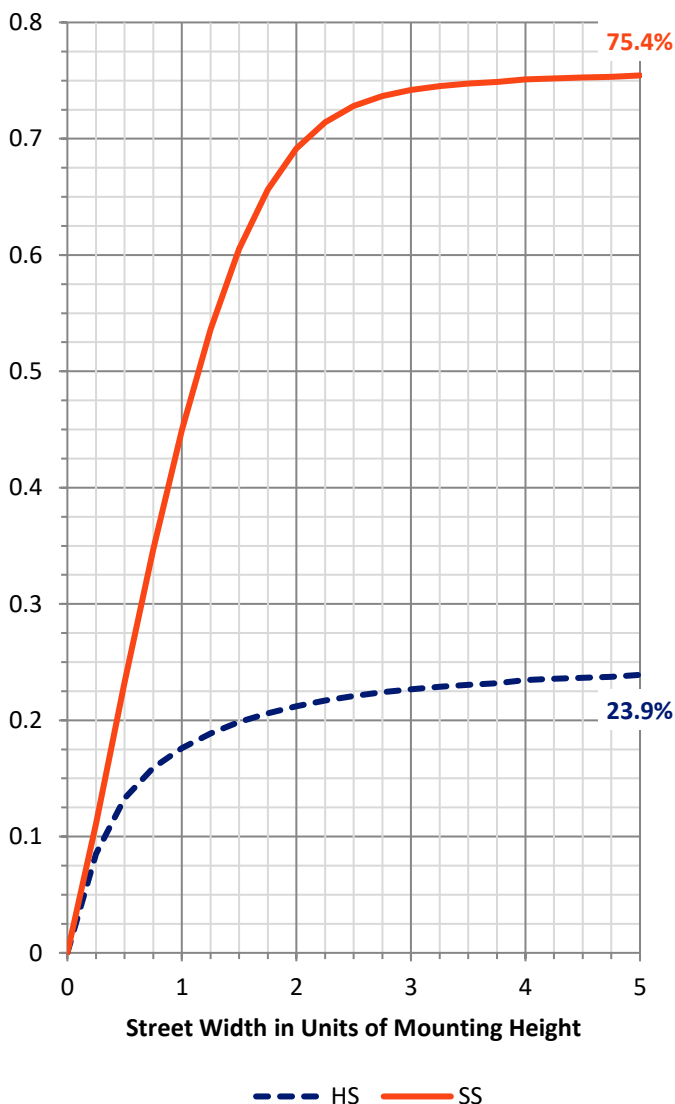
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1441.1	0.0	1441.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	4491.3	0.0	4491.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	5932.4	0.0	5932.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.3
10°-20°	244.3	4.1
20°-30°	434.9	7.3
30°-40°	669.2	11.3
40°-50°	948.6	16.0
50°-60°	1373.1	23.1
60°-70°	1421.0	24.0
70°-80°	665.4	11.2
80°-90°	98.5	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°	5932.4	100.0
0°-180°	5932.4	100.0

Coefficient of Utilization

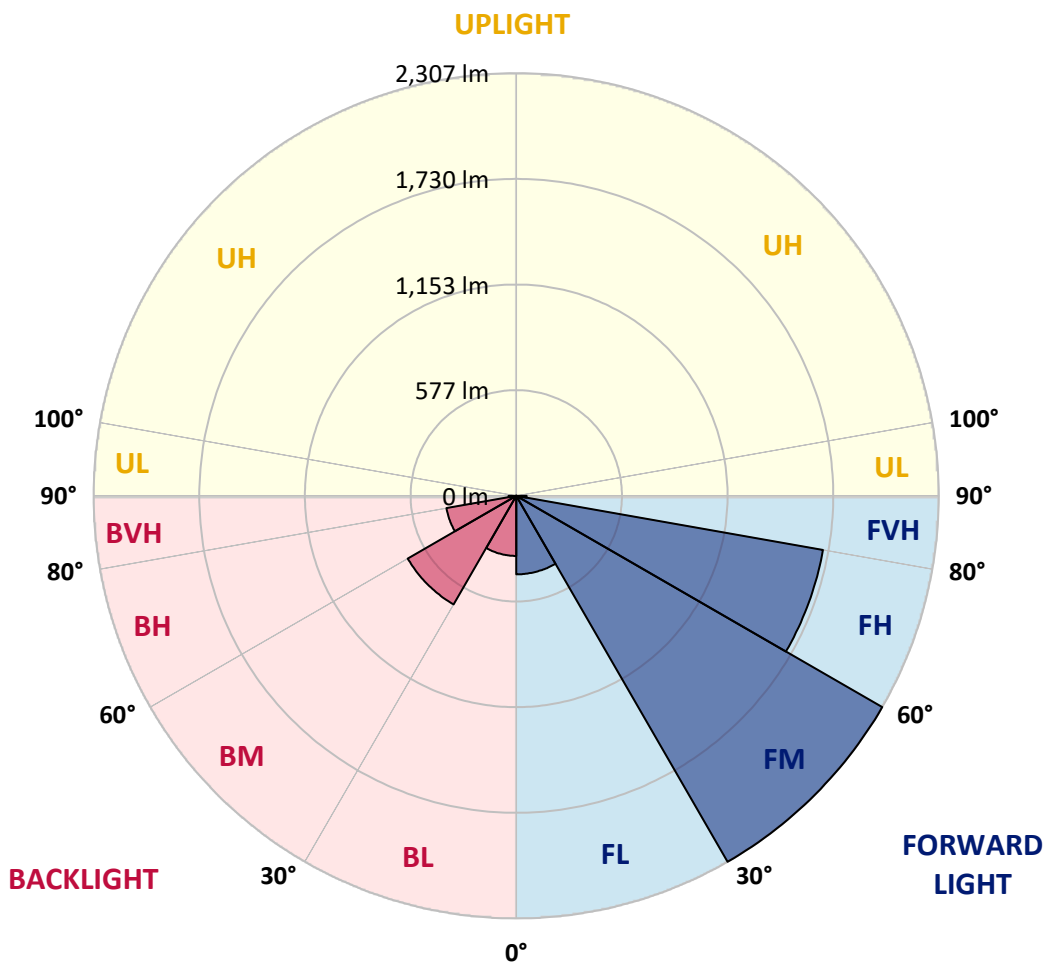


REPORT NUMBER: P650713
 CATALOG NUMBER: GALN-SA1C-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.4	7.2			
FM (30°-60°)	2306.7	38.9			
FH (60°-80°)	1699.8	28.7			G1/1800
FVH (80°-90°)	56.4	1.0			G1/100
BL (0°-30°)	328.2	5.5	B1/500		
BM (30°-60°)	684.1	11.5	B1/1000		
BH (60°-80°)	386.6	6.5	B1/500		G1/500
BVH (80°-90°)	42.1	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-G1
 Type III Short





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 CATALOG NUMBER: GALN-SA1C-840-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9
2.5°	804.9	804.6	805.5	804.6	805.2	802.9	801.9	802.6	801.6	800.0	796.9
5°	814.8	814.5	814.8	813.5	814.2	812.8	810.5	811.1	809.5	805.8	801.6
7.5°	831.7	830.3	830.3	830.0	828.7	826.7	825.0	824.3	822.8	818.1	811.5
10°	853.5	853.5	853.8	851.2	852.9	849.2	847.6	847.2	841.6	835.6	826.4
12.5°	882.3	883.9	882.9	881.6	880.9	879.6	874.0	875.3	869.0	858.7	847.6
15°	918.0	920.6	919.0	918.3	916.7	911.7	909.4	908.4	900.1	885.2	870.4
17.5°	965.3	961.9	960.6	959.0	952.0	948.4	944.4	943.8	936.5	919.0	895.8
20°	1006.6	1011.2	1008.6	1006.9	999.9	993.1	990.0	989.1	982.8	963.6	926.5
22.5°	1055.9	1056.9	1057.8	1053.9	1050.6	1045.3	1040.0	1038.3	1036.0	1016.2	970.9
25°	1108.4	1112.4	1109.1	1105.2	1101.2	1100.9	1105.8	1105.2	1104.1	1085.0	1029.7
27.5°	1194.1	1197.8	1198.8	1194.4	1179.3	1180.5	1191.8	1195.4	1210.6	1178.9	1105.5
30°	1242.4	1246.0	1254.3	1270.5	1294.6	1315.7	1342.9	1351.2	1365.7	1305.8	1195.4
32.5°	1272.1	1273.4	1288.3	1318.4	1390.8	1469.9	1543.7	1546.6	1555.8	1471.8	1277.7
35°	1319.1	1320.1	1332.0	1365.0	1450.1	1581.7	1695.7	1699.4	1691.8	1523.5	1316.1
37.5°	1377.0	1379.6	1387.2	1414.6	1516.2	1675.3	1758.9	1756.3	1688.8	1564.4	1383.9
40°	1461.3	1461.3	1452.3	1489.4	1586.0	1728.8	1781.1	1776.4	1758.5	1683.2	1487.1
42.5°	1535.7	1534.4	1555.5	1580.7	1673.3	1811.5	1874.0	1881.6	1911.0	1832.3	1604.5
45°	1632.5	1638.5	1650.5	1696.0	1821.7	1952.6	2033.4	2040.6	2082.3	2007.9	1741.7
47.5°	1730.4	1732.5	1769.8	1830.7	2005.6	2144.1	2210.3	2222.2	2260.2	2213.3	1889.5
50°	1799.9	1818.7	1878.6	1974.5	2195.1	2377.6	2429.2	2443.4	2510.6	2436.8	2061.8
52.5°	1873.3	1891.8	1964.9	2111.1	2412.7	2616.4	2679.8	2689.4	2759.2	2662.9	2238.1
55°	1936.2	1953.3	2036.3	2232.1	2585.9	2860.1	2975.1	2963.9	2997.3	2837.3	2374.0
57.5°	1946.4	1960.3	2064.7	2309.5	2716.2	3069.1	3234.1	3240.7	3202.0	2967.6	2486.1
60°	1867.0	1895.4	2015.5	2301.2	2774.7	3214.6	3427.2	3431.8	3322.0	3034.3	2530.7
62.5°	1726.5	1723.5	1868.7	2168.3	2692.7	3247.6	3540.9	3536.0	3369.0	3002.3	2487.4
64°	1532.4	1568.1	1703.7	2004.9	2560.5	3196.7	3552.8	3550.2	3346.5	2935.4	2413.7
65°	1414.0	1412.0	1545.9	1871.3	2428.9	3119.9	3531.7	3528.1	3299.6	2875.6	2356.4
67.5°	1020.8	1025.4	1157.7	1444.1	1974.5	2820.0	3393.8	3380.2	3114.4	2677.2	2138.8
70°	618.4	621.0	724.9	958.0	1417.3	2279.7	3059.1	3059.8	2831.0	2380.9	1820.4
72.5°	325.7	332.7	374.3	544.0	860.8	1599.5	2481.8	2540.7	2430.5	2032.0	1438.1
75°	181.2	182.2	211.6	268.2	439.2	895.2	1865.3	1882.2	1924.2	1635.6	1063.4
77.5°	138.3	140.2	149.4	173.2	239.1	415.0	1129.0	1213.6	1356.1	1153.1	606.8
80°	112.1	114.1	122.0	136.2	159.0	196.8	524.4	570.1	725.9	511.9	236.7
82.5°	87.3	86.0	96.2	105.5	115.7	116.4	215.3	238.1	295.6	220.3	102.5
85°	64.8	64.8	73.1	71.1	74.8	68.1	94.9	104.8	118.4	93.6	47.6
87.5°	25.8	28.4	47.9	43.0	33.4	26.7	35.1	37.0	41.0	36.7	19.8
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: P650713
 CATALOG NUMBER: GALN-SA1C-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9	795.9
2.5°	797.3	798.3	795.9	794.3	793.7	792.6	791.6	792.0	793.3	794.7	794.3
5°	801.2	801.6	797.6	795.6	794.3	793.0	793.0	794.0	796.6	798.6	798.6
7.5°	811.1	811.1	805.5	801.9	800.0	797.6	796.9	797.3	799.3	801.9	802.2
10°	826.7	825.4	818.1	812.5	808.9	803.2	798.3	795.6	796.6	798.3	798.3
12.5°	845.5	841.9	832.7	825.0	816.1	805.5	795.2	790.0	789.7	791.3	790.6
15°	865.7	861.8	848.8	834.9	819.5	803.9	791.6	784.1	778.1	776.4	780.1
17.5°	889.2	880.9	863.1	843.9	820.7	800.5	781.4	765.9	755.3	752.3	753.3
20°	917.6	906.8	882.6	852.5	819.7	788.7	758.9	738.1	720.9	715.6	716.3
22.5°	957.0	938.1	902.7	856.8	811.5	766.2	724.9	697.8	676.9	668.7	673.6
25°	1001.6	981.1	921.9	855.8	790.0	730.2	684.5	649.2	630.2	618.1	620.7
27.5°	1063.1	1026.8	942.4	846.9	759.3	686.2	633.3	599.9	582.6	576.3	579.4
30°	1141.8	1086.0	964.6	822.8	710.6	630.6	581.6	559.9	549.6	541.7	544.3
32.5°	1198.8	1127.6	969.6	782.0	658.1	580.0	546.6	530.4	519.1	511.6	513.2
35°	1239.4	1163.0	967.2	732.1	603.2	538.3	518.8	505.6	487.4	470.9	467.9
37.5°	1294.0	1207.3	950.4	677.6	548.9	510.2	496.4	471.9	445.7	423.6	422.6
40°	1377.6	1259.2	914.3	613.4	502.7	489.4	472.6	440.8	412.7	394.8	393.5
42.5°	1463.9	1307.2	865.4	546.0	464.6	467.6	447.1	415.7	398.5	386.9	385.6
45°	1569.4	1359.1	812.5	487.4	436.5	447.1	425.0	406.7	396.4	388.9	386.9
47.5°	1683.5	1412.4	752.9	434.9	412.7	428.2	415.7	407.4	401.7	396.4	394.2
50°	1806.6	1471.8	697.1	392.5	391.2	408.7	414.7	411.7	408.4	406.7	404.8
52.5°	1941.4	1532.7	650.1	362.7	372.3	394.8	415.0	417.3	417.3	416.3	415.0
55°	2032.7	1575.0	602.5	338.6	353.1	383.6	414.4	423.3	426.6	425.3	423.9
57.5°	2100.1	1598.2	542.6	317.8	337.0	372.6	410.7	423.9	427.2	428.9	428.2
60°	2114.0	1576.7	464.3	295.9	319.4	356.8	397.5	414.0	418.3	428.6	429.6
62.5°	2051.5	1510.5	386.3	274.5	298.0	332.7	379.6	402.8	411.3	427.2	428.9
64°	1974.8	1436.5	342.9	260.9	284.1	319.1	370.7	399.8	411.0	432.2	433.5
65°	1918.6	1382.6	315.8	252.3	275.1	310.2	365.8	400.8	414.0	439.8	441.8
67.5°	1711.6	1197.1	261.2	232.1	254.0	294.9	366.8	409.1	413.4	442.8	442.5
70°	1416.3	953.0	218.9	213.6	233.5	282.7	362.7	395.9	396.2	415.7	411.0
72.5°	1060.5	704.3	189.8	194.4	210.7	253.6	342.6	377.9	372.3	375.0	370.4
75°	728.5	465.9	163.3	173.9	186.9	224.2	314.1	343.2	334.3	331.0	327.7
77.5°	388.9	257.6	135.9	153.7	162.4	193.8	274.2	302.3	293.0	280.1	275.8
80°	157.4	121.4	109.4	127.3	132.3	156.1	228.2	245.7	238.8	216.3	209.0
82.5°	79.1	72.7	86.0	100.2	100.5	111.4	169.6	186.2	170.6	143.2	136.9
85°	41.4	42.6	59.2	70.5	62.1	60.2	101.8	112.8	103.5	90.0	81.0
87.5°	14.9	17.2	31.1	30.8	21.9	11.6	22.5	10.9	6.0	3.6	4.6
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)