

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: P646755

Luminaire Tested: **GALN-SA1C-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5557.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

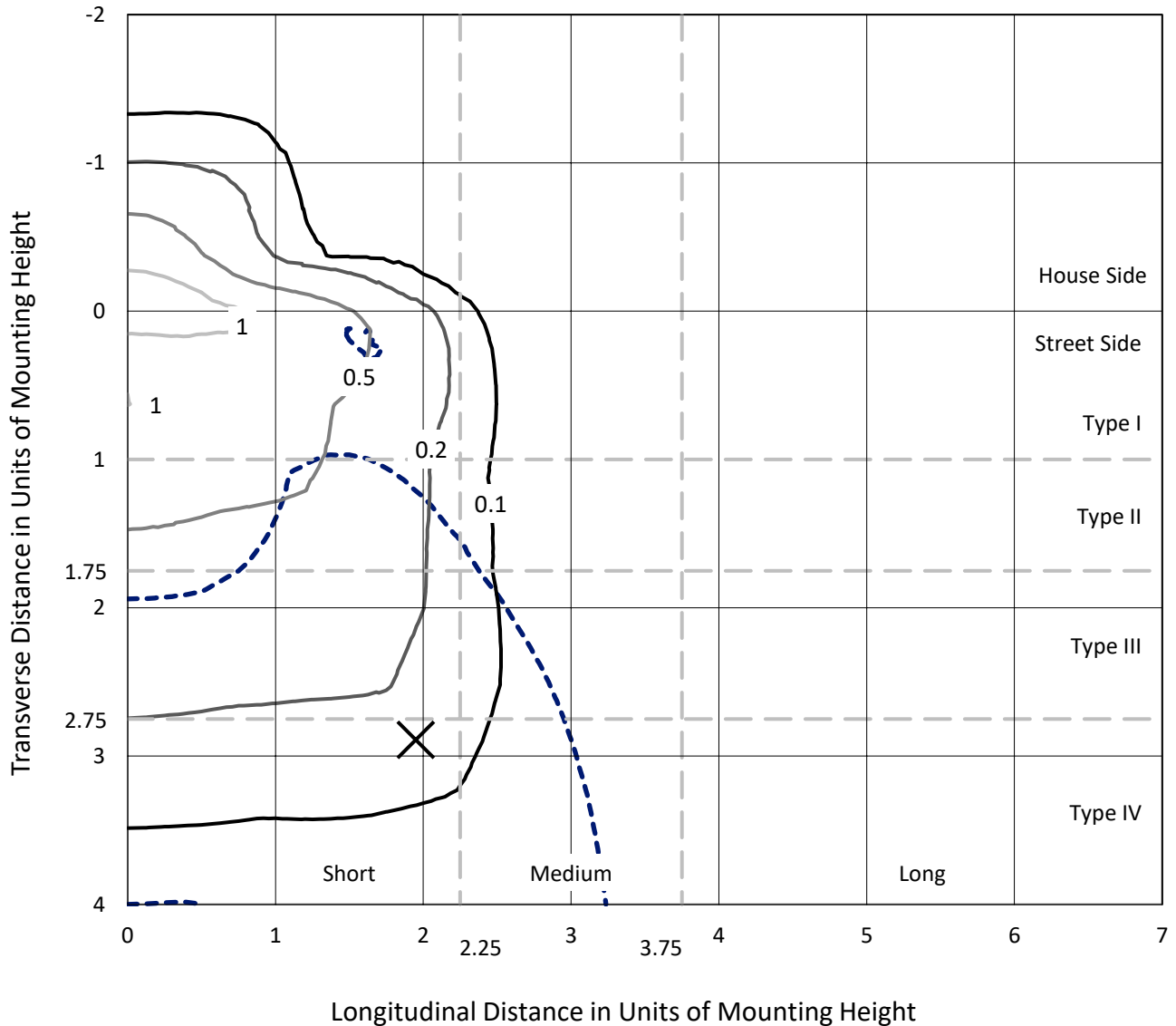
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646755
 CATALOG NUMBER: GALN-SA1C-835-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

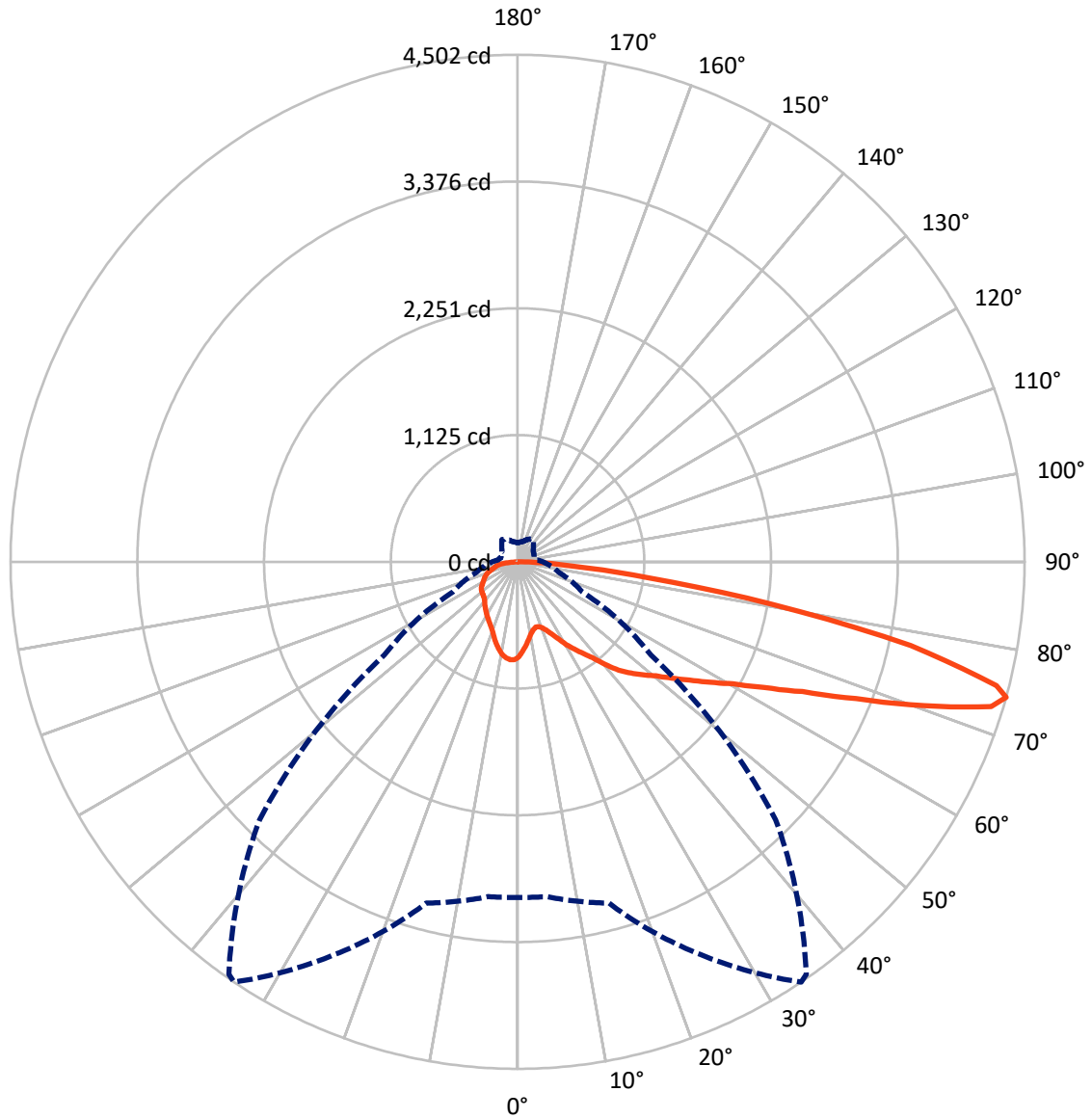
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P646755
CATALOG NUMBER: GALN-SA1C-835-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P646755
 CATALOG NUMBER: GALN-SA1C-835-U-T4FT

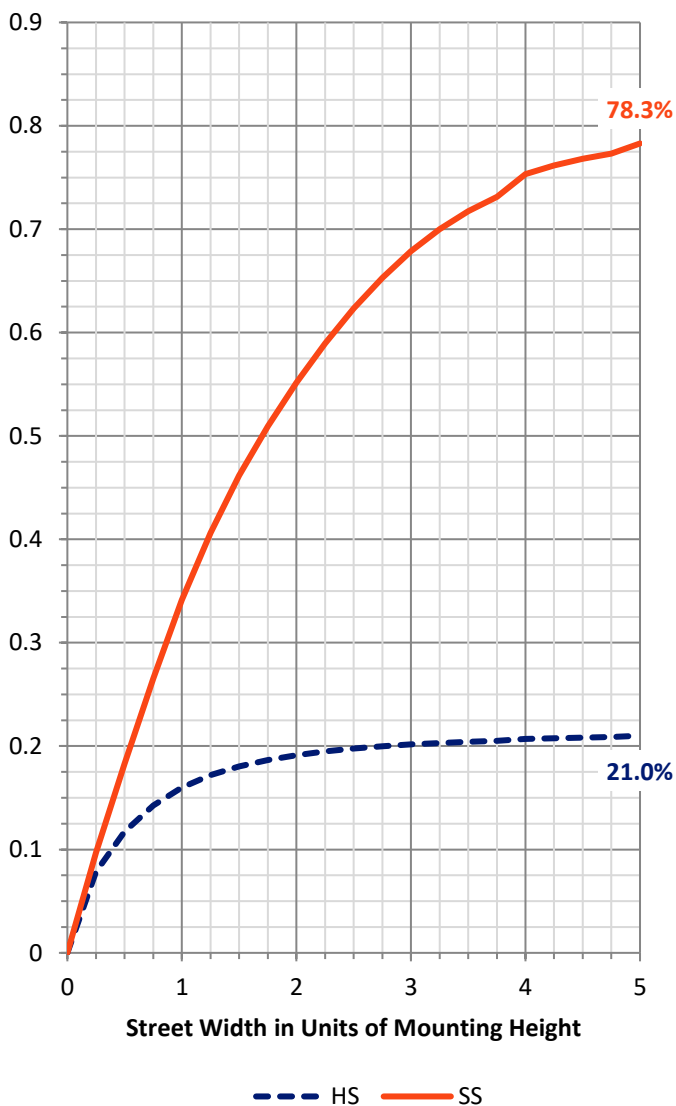
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.7	0.0	1182.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4375.0	0.0	4375.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	5557.7	0.0	5557.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.4
10°-20°	211.3	3.8
20°-30°	348.3	6.3
30°-40°	521.7	9.4
40°-50°	758.4	13.6
50°-60°	1059.4	19.1
60°-70°	1326.3	23.9
70°-80°	1096.7	19.7
80°-90°	158.5	2.9
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°	5557.7	100.0
0°-180°	5557.7	100.0

Coefficient of Utilization

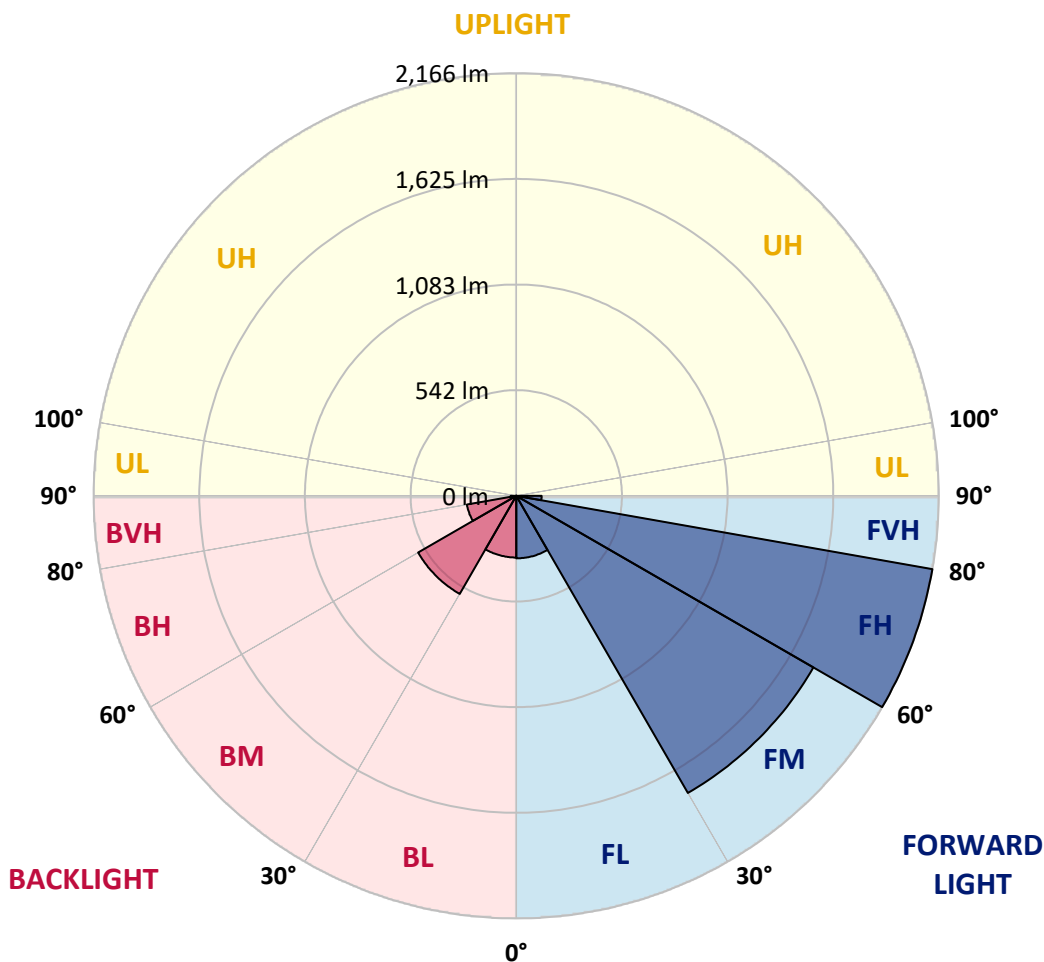


REPORT NUMBER: P646755
 CATALOG NUMBER: GALN-SA1C-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.4	5.8			
FM (30°-60°)	1758.7	31.6			
FH (60°-80°)	2166.1	39.0			G2/5000
FVH (80°-90°)	129.8	2.3			G2/225
BL (0°-30°)	316.4	5.7	B1/500		
BM (30°-60°)	580.8	10.5	B1/1000		
BH (60°-80°)	256.9	4.6	B1/500		G1/500
BVH (80°-90°)	28.6	0.5			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 Short





REPORT NUMBER: P646755
 CATALOG NUMBER: GALN-SA1C-835-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5
2.5°	784.2	788.2	790.4	798.0	799.9	802.3	808.8	817.5	828.6	838.4	847.0
5°	719.0	725.1	728.8	735.6	748.8	750.0	767.3	787.0	809.5	830.4	847.6
7.5°	657.0	663.8	666.9	679.3	696.8	699.5	724.7	755.9	793.4	825.1	851.7
10°	610.6	614.0	620.7	629.9	650.9	652.7	685.7	727.3	775.9	822.7	858.4
12.5°	585.3	587.2	588.7	598.5	619.2	621.9	656.5	703.5	762.0	824.6	869.5
15°	589.0	589.6	582.9	584.7	601.3	605.3	639.5	687.9	753.4	829.2	886.1
17.5°	620.1	617.9	601.3	592.7	604.4	606.3	636.1	681.7	749.4	837.8	903.3
20°	669.1	665.9	637.4	618.3	625.0	626.6	647.2	686.3	753.4	851.9	930.1
22.5°	730.0	728.8	685.4	662.3	661.9	661.9	672.8	702.9	765.5	871.3	958.2
25°	815.3	808.8	752.1	722.3	714.0	713.4	712.1	730.3	780.8	892.0	991.4
27.5°	902.7	891.7	841.2	795.3	777.4	775.2	767.3	769.1	800.5	915.4	1029.3
30°	981.3	974.2	926.8	875.9	854.7	849.8	827.6	817.5	833.5	957.5	1089.6
32.5°	1041.3	1037.0	1000.0	953.9	922.5	921.5	889.2	880.9	884.9	1008.7	1158.6
35°	1089.9	1091.5	1072.7	1032.7	996.7	991.4	969.9	959.4	947.7	1082.6	1245.4
37.5°	1156.4	1159.9	1158.6	1124.2	1080.1	1081.3	1076.4	1059.2	1028.1	1165.1	1341.8
40°	1229.7	1232.2	1231.9	1218.7	1195.6	1196.8	1194.9	1175.2	1128.8	1270.0	1448.9
42.5°	1331.0	1319.4	1288.8	1302.1	1315.6	1321.5	1334.1	1315.4	1251.6	1382.2	1549.6
45°	1444.3	1422.2	1353.2	1359.4	1409.6	1420.6	1490.2	1464.4	1384.9	1510.8	1668.2
47.5°	1515.7	1493.9	1435.7	1434.5	1501.0	1511.7	1634.9	1625.4	1506.2	1649.7	1812.9
50°	1579.5	1576.4	1510.8	1526.5	1591.5	1607.5	1792.5	1783.6	1627.2	1813.5	1970.5
52.5°	1674.1	1649.1	1596.8	1629.0	1715.0	1735.9	1949.0	1922.8	1738.3	1958.2	2123.6
55°	1716.5	1710.7	1707.6	1735.6	1853.5	1868.6	2101.1	2041.0	1833.2	2080.7	2239.9
57.5°	1830.1	1819.4	1849.8	1868.9	2016.7	2039.8	2260.0	2164.5	1916.3	2178.1	2296.6
60°	1977.3	1971.4	1999.5	2033.9	2199.0	2234.1	2441.0	2269.8	1983.2	2227.0	2265.5
62.5°	2197.1	2196.5	2191.3	2265.1	2457.3	2489.6	2648.8	2372.3	1993.6	2190.4	2104.8
65°	2512.4	2501.3	2455.8	2536.5	2778.7	2816.6	2865.2	2429.6	1930.5	2002.2	1772.2
67.5°	2842.1	2841.6	2804.6	2909.3	3240.3	3279.4	3135.9	2417.0	1755.3	1622.0	1258.7
70°	3115.6	3102.3	3149.5	3428.4	3829.9	3875.1	3372.7	2268.3	1398.1	1071.1	747.8
72.5°	3181.2	3181.8	3279.7	3828.6	4396.1	4403.2	3458.0	1838.4	935.7	590.9	374.1
74°	2979.2	2984.4	3136.2	3848.7	4501.7	4469.7	3240.0	1444.9	632.7	385.8	269.7
75°	2719.4	2686.4	2905.9	3715.3	4392.1	4357.6	2984.7	1159.5	482.8	308.2	236.2
77.5°	1453.9	1487.5	1826.1	2772.6	3568.2	3528.4	2023.8	556.1	260.8	214.6	170.0
80°	517.6	570.8	802.3	1450.8	2287.7	2300.0	965.8	254.9	183.5	158.2	120.1
82.5°	211.3	217.0	344.5	643.8	1161.7	1172.8	394.4	151.5	131.2	109.0	71.7
85°	82.5	85.0	152.4	289.4	495.7	528.1	136.4	80.0	80.6	62.5	36.6
87.5°	27.7	31.4	62.5	96.4	168.4	165.1	39.7	23.7	29.0	27.1	11.4
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: P646755
 CATALOG NUMBER: GALN-SA1C-835-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5	848.5
2.5°	851.4	857.2	861.1	865.5	869.5	870.7	869.8	872.6	872.9	873.2	873.5
5°	856.3	864.3	871.9	876.3	878.1	876.6	871.3	868.6	866.1	864.3	864.9
7.5°	863.0	874.5	881.5	883.4	878.4	871.3	858.4	848.2	841.8	837.5	837.2
10°	873.5	884.6	890.4	885.2	871.6	854.4	834.1	815.0	800.5	796.2	795.9
12.5°	886.7	899.4	899.0	883.7	860.0	829.2	796.2	774.1	754.3	744.5	748.5
15°	904.0	913.5	904.6	876.9	839.3	797.2	756.5	726.3	704.2	693.7	694.3
17.5°	924.0	932.3	908.6	864.9	810.4	756.2	709.1	680.4	662.9	655.2	654.6
20°	948.9	951.4	908.6	843.9	773.1	708.5	663.5	643.5	633.7	629.6	630.9
22.5°	975.7	970.8	903.7	814.4	724.2	658.6	628.4	619.5	614.6	614.0	614.6
25°	1005.9	992.1	893.5	774.4	673.1	615.5	597.9	599.5	600.4	600.4	602.5
27.5°	1042.8	1015.2	876.6	723.9	613.3	575.4	570.5	581.3	586.2	587.2	588.7
30°	1091.5	1040.4	848.5	660.8	562.5	539.4	548.0	562.5	568.1	571.4	570.8
32.5°	1149.4	1068.1	810.7	597.6	521.6	514.2	524.7	539.4	545.6	547.5	545.0
35°	1217.4	1099.5	760.8	538.5	485.9	490.2	502.5	507.1	512.6	512.6	513.9
37.5°	1290.7	1124.7	699.8	484.3	458.1	473.9	482.8	478.5	476.0	472.9	474.5
40°	1365.2	1143.5	620.7	430.7	430.4	456.9	459.4	447.1	437.2	434.1	432.6
42.5°	1430.1	1155.2	549.3	389.2	404.3	440.3	442.2	422.4	406.7	397.5	394.4
45°	1506.8	1168.8	479.4	354.7	379.9	427.0	431.7	405.2	382.1	362.7	357.8
47.5°	1611.8	1199.6	424.3	327.9	362.4	418.7	425.2	391.0	360.6	335.3	331.3
50°	1730.4	1241.8	381.5	309.8	348.8	411.3	419.4	376.5	340.5	312.5	309.4
52.5°	1839.0	1264.5	344.5	293.4	335.6	397.8	411.6	366.1	320.8	289.7	287.0
55°	1898.5	1227.6	308.2	277.4	317.4	380.2	400.9	351.6	301.8	277.7	273.7
57.5°	1906.4	1151.2	275.2	260.2	298.3	358.7	380.9	334.0	289.4	269.4	266.0
60°	1844.6	1037.3	249.7	246.0	279.0	334.3	358.4	318.7	276.8	260.2	256.7
62.5°	1690.7	913.5	231.8	233.1	259.3	308.8	341.8	303.9	264.8	250.0	247.0
65°	1425.8	754.0	214.6	219.9	241.7	288.8	326.7	291.6	252.8	242.3	239.5
67.5°	990.5	544.3	200.4	206.0	225.0	268.5	309.1	278.4	239.2	233.7	229.4
70°	548.3	335.0	183.8	190.3	207.8	245.7	289.4	258.3	219.6	217.0	210.9
72.5°	288.2	213.4	165.1	172.1	184.4	216.4	259.3	236.5	200.1	189.6	181.7
74°	225.0	174.9	152.4	159.8	168.1	199.2	241.4	220.7	186.3	174.0	167.8
75°	196.1	155.8	141.6	151.2	158.6	187.5	227.5	209.7	178.6	166.9	161.3
77.5°	138.6	116.7	115.8	127.2	131.2	164.4	205.1	190.9	159.2	146.9	141.6
80°	97.3	87.5	91.8	98.8	104.4	145.3	190.3	165.1	130.5	116.0	114.2
82.5°	63.4	57.2	65.6	72.0	73.9	107.1	153.6	125.3	95.1	77.3	71.7
85°	29.3	28.7	37.6	36.6	36.3	52.3	91.1	73.3	54.8	41.0	38.5
87.5°	7.4	7.0	9.2	7.7	9.2	8.0	8.3	2.2	0.3	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)