

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: P451057

Luminaire Tested: **GALN-SA1D-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451057
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-SA1D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5742 lumens
Efficiency: N/A
Efficacy: 88.3 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

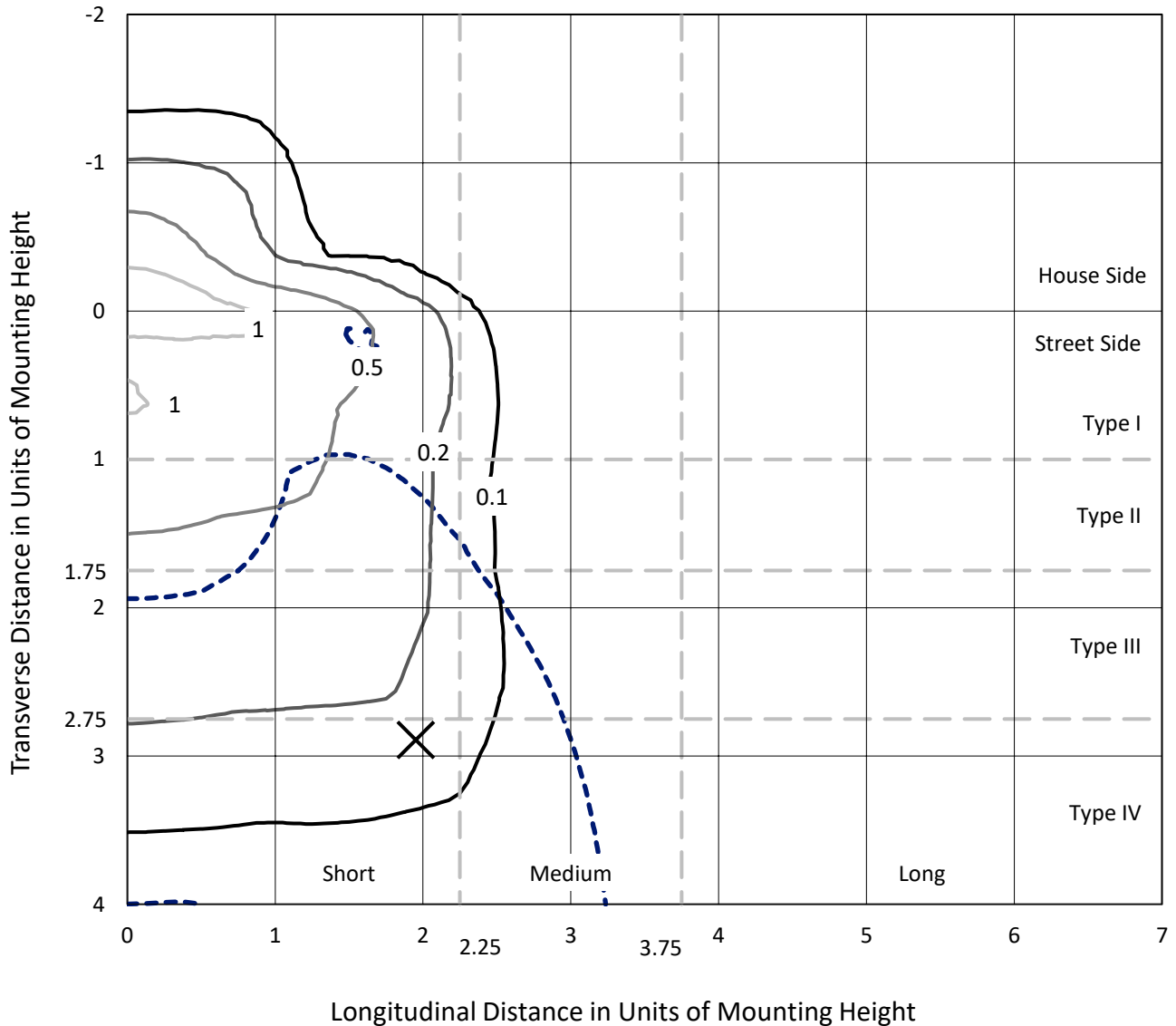
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451057
 CATALOG NUMBER: GALN-SA1D-827-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

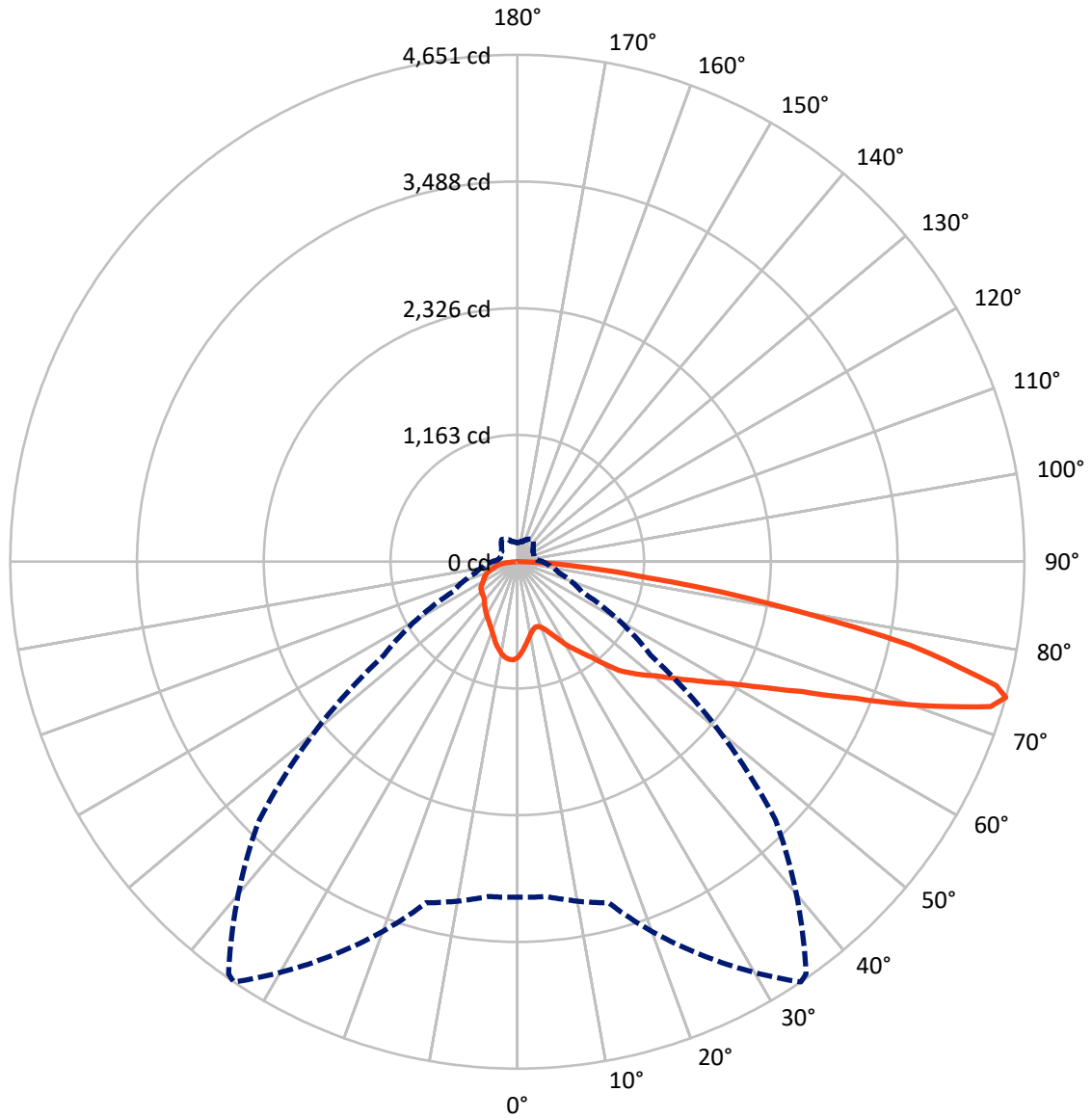
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P451057
CATALOG NUMBER: GALN-SA1D-827-U-T4FT

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA1D-827-U-T4FT

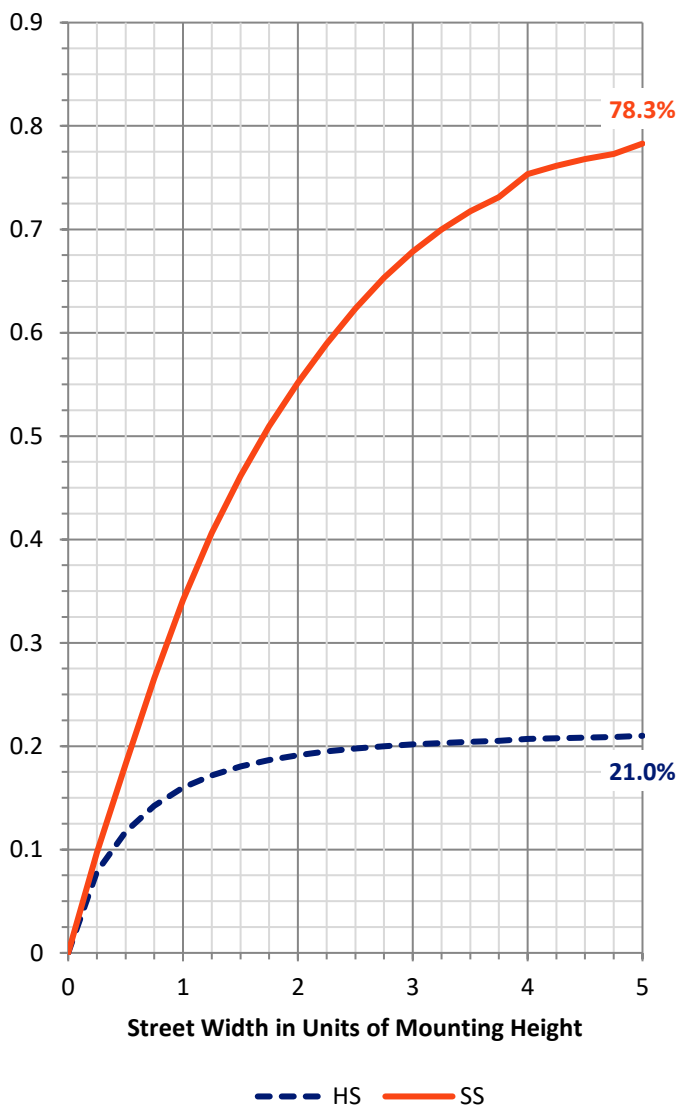
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.9	0.0	1221.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4520.1	0.0	4520.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	5742.0	0.0	5742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.4
10°-20°	218.3	3.8
20°-30°	359.9	6.3
30°-40°	539.0	9.4
40°-50°	783.6	13.6
50°-60°	1094.5	19.1
60°-70°	1370.2	23.9
70°-80°	1133.1	19.7
80°-90°	163.7	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°	5742.0	100.0
0°-180°	5742.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451057

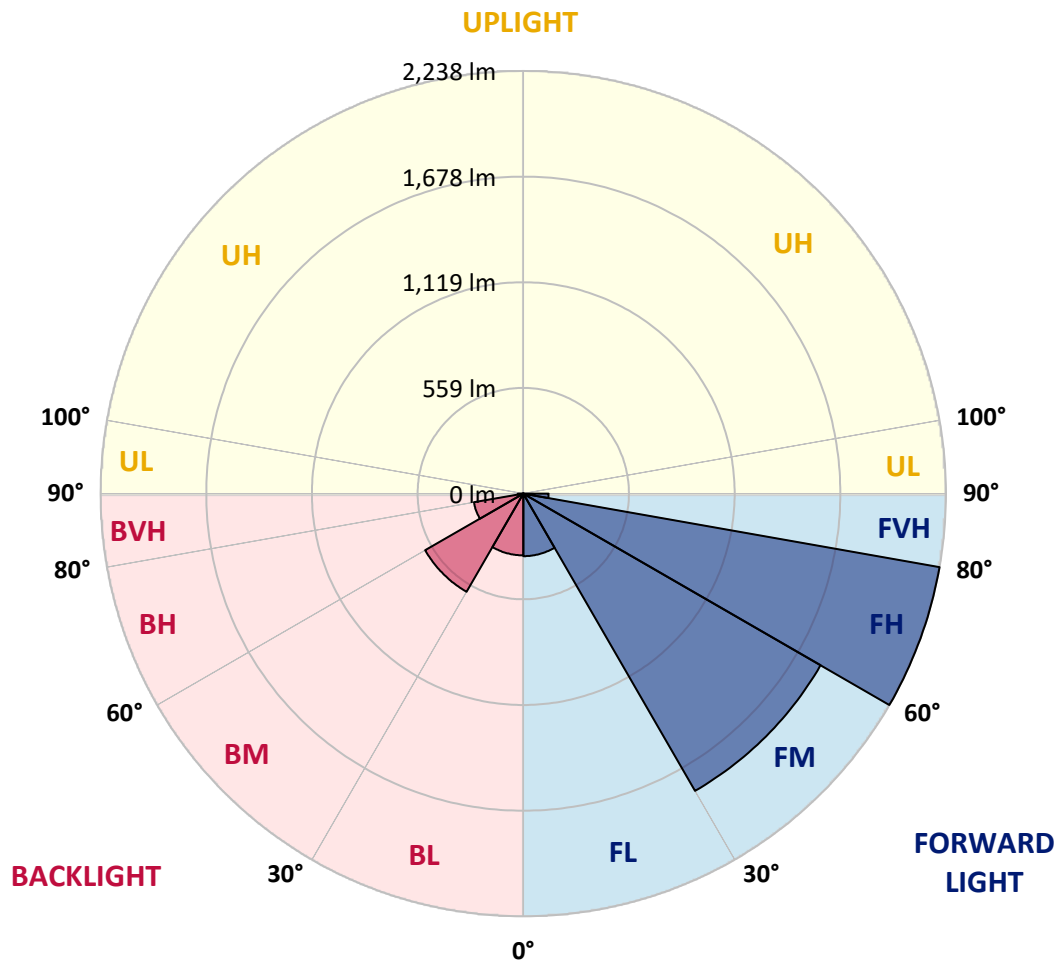
CATALOG NUMBER: GALN-SA1D-827-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.0	5.8			
FM (30°-60°)	1817.0	31.6			
FH (60°-80°)	2237.9	39.0			G2/5000
FVH (80°-90°)	134.1	2.3			G2/225
BL (0°-30°)	326.8	5.7	B1/500		
BM (30°-60°)	600.1	10.5	B1/1000		
BH (60°-80°)	265.4	4.6	B1/500		G1/500
BVH (80°-90°)	29.6	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: P451057
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7
2.5°	810.2	814.3	816.6	824.5	826.4	829.0	835.7	844.6	856.0	866.2	875.1
5°	742.8	749.1	752.9	759.9	773.6	774.9	792.7	813.1	836.3	857.9	875.7
7.5°	678.8	685.8	689.0	701.7	719.9	722.7	748.8	780.9	819.7	852.5	879.9
10°	630.8	634.3	641.3	650.8	672.5	674.4	708.4	751.4	801.6	850.0	886.9
12.5°	604.7	606.6	608.2	618.4	639.7	642.6	678.2	726.9	787.3	851.9	898.3
15°	608.5	609.2	602.2	604.1	621.3	625.4	660.7	710.6	778.4	856.6	915.5
17.5°	640.7	638.4	621.3	612.3	624.4	626.3	657.2	704.3	774.3	865.6	933.3
20°	691.2	688.1	658.5	638.7	645.7	647.3	668.7	709.0	778.4	880.2	961.0
22.5°	754.2	752.9	708.1	684.2	683.9	683.9	695.1	726.2	790.8	900.2	989.9
25°	842.3	835.7	777.1	746.3	737.7	737.0	735.8	754.5	806.7	921.5	1024.3
27.5°	932.7	921.2	869.1	821.7	803.2	801.0	792.7	794.6	827.1	945.7	1063.4
30°	1013.8	1006.5	957.5	905.0	883.1	878.0	855.1	844.6	861.1	989.3	1125.8
32.5°	1075.8	1071.4	1033.2	985.5	953.0	952.1	918.7	910.1	914.2	1042.1	1197.0
35°	1126.1	1127.7	1108.3	1066.9	1029.7	1024.3	1002.0	991.2	979.1	1118.4	1286.7
37.5°	1194.8	1198.3	1197.0	1161.4	1115.9	1117.2	1112.1	1094.3	1062.1	1203.7	1386.3
40°	1270.5	1273.0	1272.7	1259.0	1235.2	1236.5	1234.6	1214.2	1166.2	1312.2	1497.0
42.5°	1375.2	1363.1	1331.6	1345.3	1359.3	1365.3	1378.3	1358.9	1293.1	1428.0	1601.0
45°	1492.2	1469.3	1398.1	1404.4	1456.3	1467.7	1539.6	1512.9	1430.8	1560.9	1723.5
47.5°	1566.0	1543.4	1483.3	1482.0	1550.7	1561.9	1689.1	1679.3	1556.2	1704.4	1873.0
50°	1631.9	1628.7	1560.9	1577.2	1644.3	1660.8	1852.0	1842.8	1681.2	1873.6	2035.9
52.5°	1729.5	1703.8	1649.7	1683.1	1771.8	1793.5	2013.6	1986.5	1796.0	2023.1	2194.0
55°	1773.4	1767.4	1764.2	1793.1	1915.0	1930.6	2170.7	2108.7	1894.0	2149.7	2314.2
57.5°	1890.8	1879.7	1911.2	1930.9	2083.6	2107.4	2334.9	2236.3	1979.9	2250.3	2372.7
60°	2042.9	2036.8	2065.8	2101.4	2271.9	2308.2	2521.9	2345.0	2048.9	2300.8	2340.6
62.5°	2270.0	2269.3	2263.9	2340.3	2538.8	2572.2	2736.6	2451.0	2059.7	2263.0	2174.5
65°	2595.7	2584.3	2537.2	2620.5	2870.9	2910.0	2960.3	2510.1	1994.5	2068.6	1831.0
67.5°	2936.4	2935.8	2897.6	3005.7	3347.7	3388.1	3239.9	2497.1	1813.5	1675.8	1300.4
70°	3218.9	3205.2	3253.9	3542.1	3956.9	4003.6	3484.5	2343.5	1444.5	1106.7	772.7
72.5°	3286.6	3287.3	3388.4	3955.6	4541.9	4549.2	3572.6	1899.4	966.7	610.4	386.5
74°	3078.0	3083.4	3240.2	3976.3	4651.0	4617.9	3347.4	1492.9	653.7	398.6	278.7
75°	2809.5	2775.4	3002.2	3838.5	4537.7	4502.1	3083.7	1198.0	498.8	318.4	244.0
77.5°	1502.1	1536.8	1886.7	2864.5	3686.5	3645.5	2090.9	574.5	269.4	221.7	175.6
80°	534.7	589.8	829.0	1498.9	2363.5	2376.2	997.9	263.4	189.6	163.5	124.1
82.5°	218.2	224.3	356.0	665.2	1200.2	1211.7	407.5	156.5	135.5	112.6	74.1
85°	85.3	87.8	157.5	299.0	512.1	545.5	140.9	82.7	83.3	64.6	37.9
87.5°	28.6	32.4	64.6	99.6	174.0	170.5	41.0	24.5	29.9	28.0	11.8
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: P451057
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7	876.7
2.5°	879.6	885.6	889.7	894.2	898.3	899.6	898.6	901.5	901.8	902.1	902.5
5°	884.6	892.9	900.9	905.3	907.2	905.6	900.2	897.4	894.8	892.9	893.5
7.5°	891.6	903.4	910.7	912.6	907.5	900.2	886.9	876.4	869.7	865.2	864.9
10°	902.5	913.9	920.0	914.5	900.5	882.7	861.7	842.0	827.1	822.6	822.3
12.5°	916.1	929.2	928.9	913.0	888.5	856.6	822.6	799.7	779.4	769.2	773.3
15°	933.9	943.8	934.6	906.0	867.1	823.6	781.6	750.4	727.5	716.7	717.3
17.5°	954.6	963.2	938.7	893.5	837.2	781.3	732.6	703.0	684.9	676.9	676.3
20°	980.4	982.9	938.7	871.9	798.8	732.0	685.5	664.8	654.7	650.5	651.8
22.5°	1008.1	1003.0	933.6	841.4	748.2	680.4	649.2	640.0	634.9	634.3	634.9
25°	1039.2	1024.9	923.1	800.0	695.4	635.9	617.8	619.3	620.3	620.3	622.5
27.5°	1077.4	1048.8	905.6	747.9	633.7	594.5	589.4	600.6	605.7	606.6	608.2
30°	1127.7	1074.9	876.7	682.6	581.2	557.3	566.2	581.2	586.9	590.4	589.8
32.5°	1187.5	1103.5	837.6	617.4	538.9	531.2	542.0	557.3	563.7	565.6	563.0
35°	1257.8	1135.9	786.0	556.4	502.0	506.4	519.1	523.9	529.6	529.6	530.9
37.5°	1333.5	1162.0	723.0	500.4	473.3	489.6	498.8	494.3	491.8	488.6	490.2
40°	1410.5	1181.4	641.3	445.0	444.7	472.1	474.6	461.9	451.7	448.5	446.9
42.5°	1477.6	1193.5	567.5	402.1	417.7	454.9	456.8	436.4	420.2	410.7	407.5
45°	1556.8	1207.5	495.3	366.5	392.5	441.2	446.0	418.6	394.8	374.7	369.6
47.5°	1665.3	1239.3	438.3	338.8	374.4	432.6	439.3	404.0	372.5	346.4	342.3
50°	1787.7	1282.9	394.1	320.0	360.4	425.0	433.3	389.0	351.8	322.9	319.7
52.5°	1900.0	1306.4	356.0	303.2	346.7	411.0	425.3	378.2	331.5	299.3	296.5
55°	1961.4	1268.3	318.4	286.6	328.0	392.9	414.2	363.3	311.7	286.9	282.8
57.5°	1969.7	1189.4	284.4	268.8	308.2	370.6	393.5	345.1	299.0	278.3	274.8
60°	1905.8	1071.7	258.0	254.2	288.2	345.5	370.3	329.2	286.0	268.8	265.3
62.5°	1746.7	943.8	239.5	240.8	267.8	319.1	353.1	314.0	273.6	258.3	255.1
65°	1473.1	779.0	221.7	227.1	249.7	298.4	337.5	301.2	261.2	250.3	247.5
67.5°	1023.3	562.4	207.1	212.8	232.5	277.4	319.4	287.6	247.2	241.4	237.0
70°	566.5	346.1	189.9	196.6	214.7	253.8	299.0	266.9	226.8	224.3	217.9
72.5°	297.7	220.4	170.5	177.8	190.5	223.6	267.8	244.3	206.8	196.0	187.7
74°	232.5	180.7	157.5	165.1	173.7	205.8	249.4	228.1	192.5	179.7	173.4
75°	202.6	161.0	146.3	156.2	163.8	193.7	235.1	216.6	184.5	172.4	166.7
77.5°	143.1	120.6	119.6	131.4	135.5	169.9	211.9	197.2	164.5	151.7	146.3
80°	100.5	90.3	94.8	102.1	107.8	150.1	196.6	170.5	134.9	119.9	118.0
82.5°	65.5	59.2	67.8	74.4	76.3	110.7	158.7	129.5	98.3	79.8	74.1
85°	30.2	29.6	38.8	37.9	37.5	54.1	94.2	75.7	56.6	42.3	39.8
87.5°	7.6	7.3	9.5	8.0	9.5	8.3	8.6	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)