

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: P318855

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-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: 6008 lumens
Efficiency: N/A
Efficacy: 89.7 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

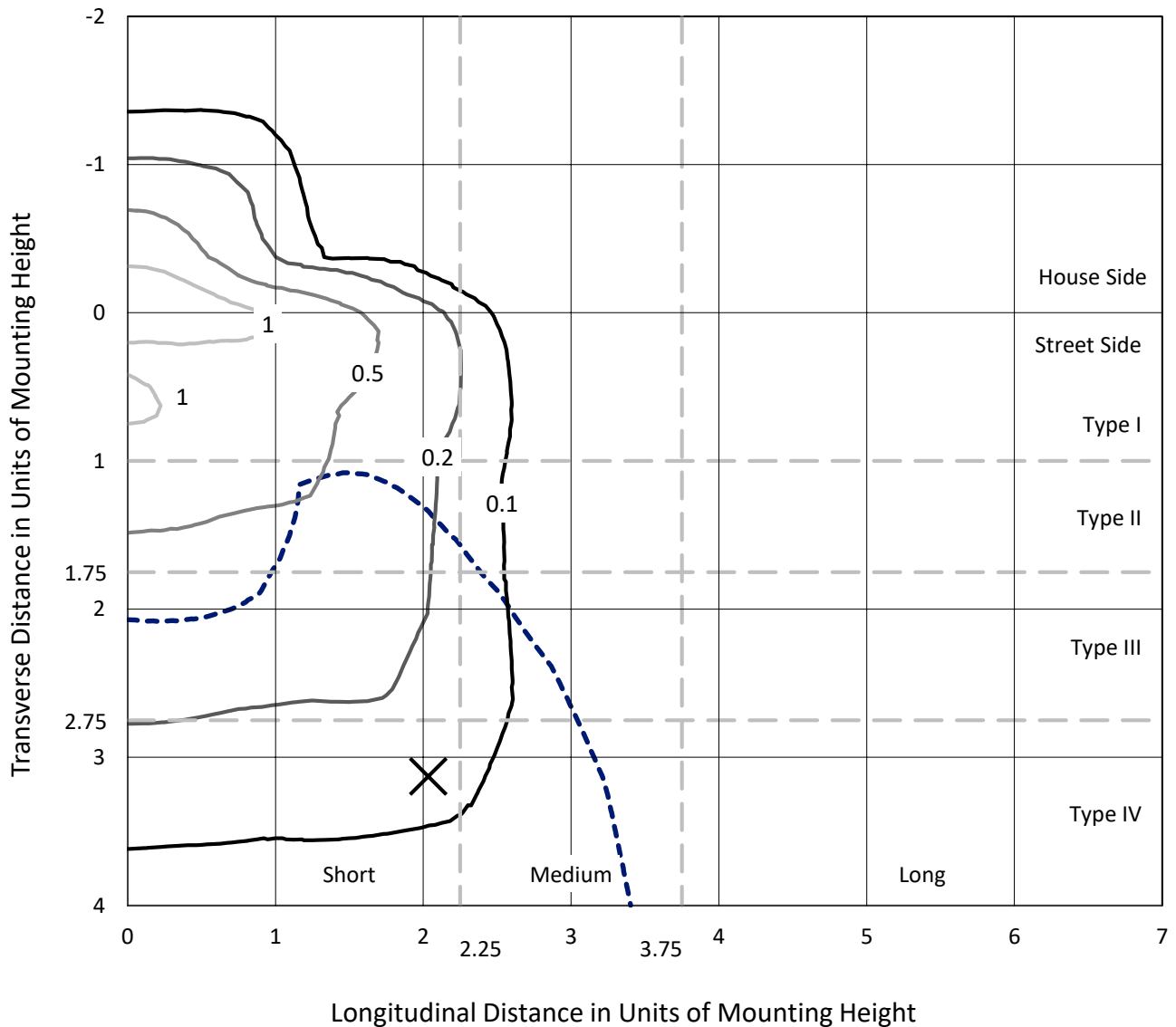
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

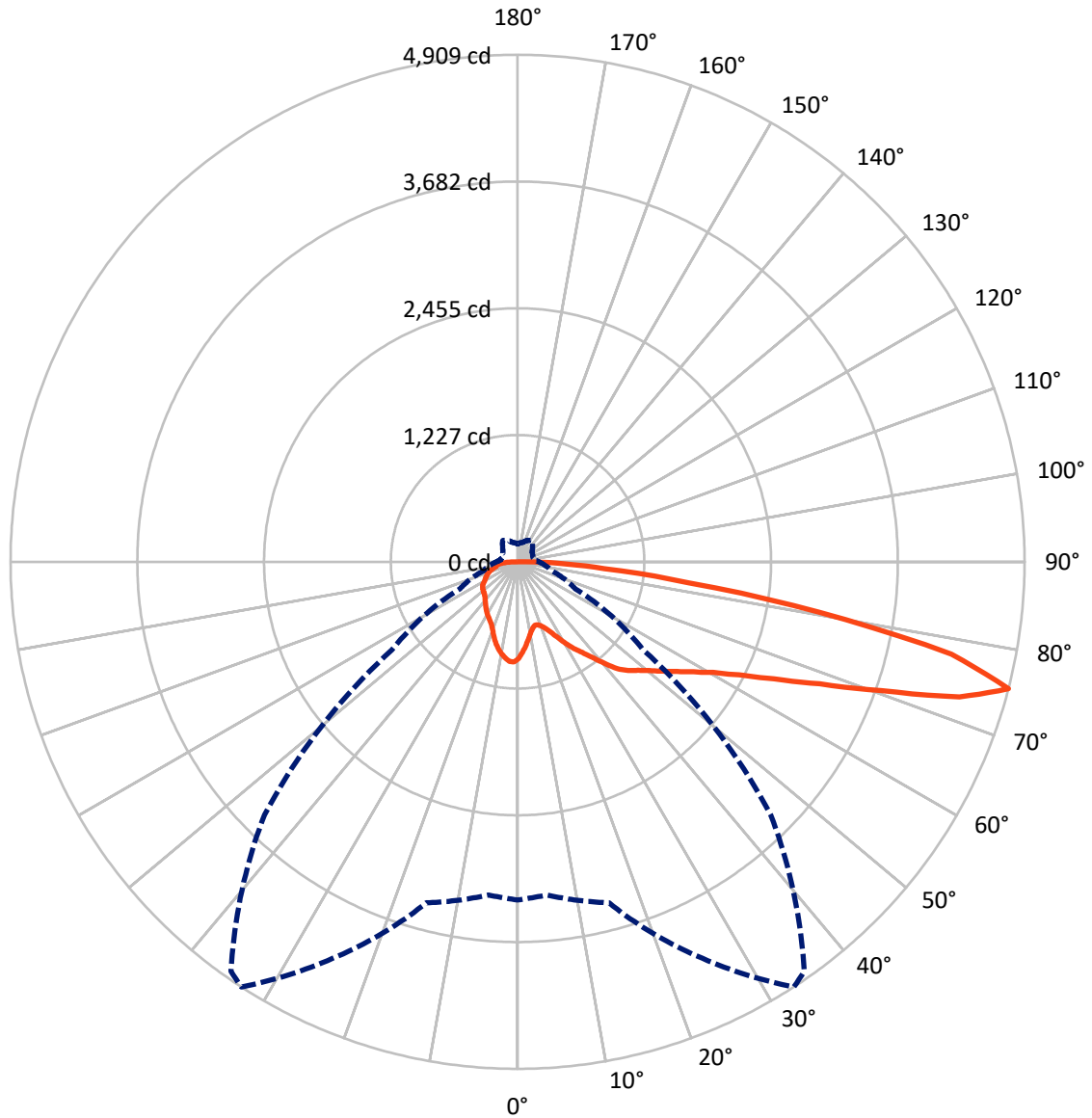
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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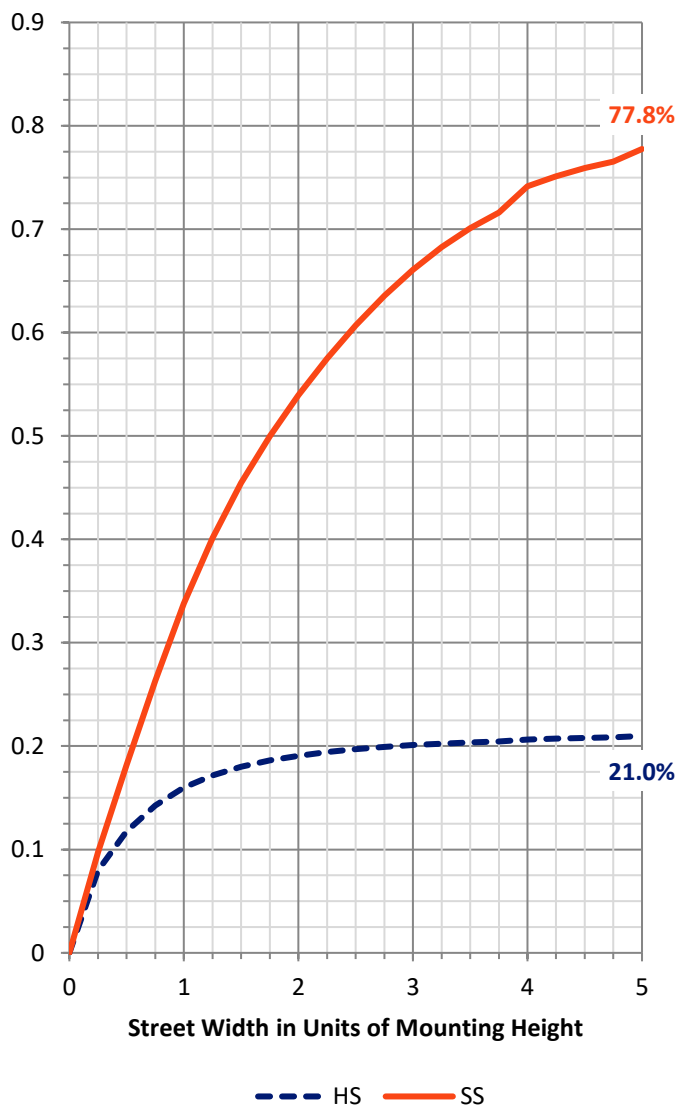
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1290.1	0.0	1290.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4717.9	0.0	4717.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	6008.0	0.0	6008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.4
10°-20°	230.0	3.8
20°-30°	375.7	6.3
30°-40°	559.4	9.3
40°-50°	802.4	13.4
50°-60°	1101.6	18.3
60°-70°	1379.1	23.0
70°-80°	1247.6	20.8
80°-90°	227.3	3.8
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°	6008.0	100.0
0°-180°	6008.0	100.0

Coefficient of Utilization



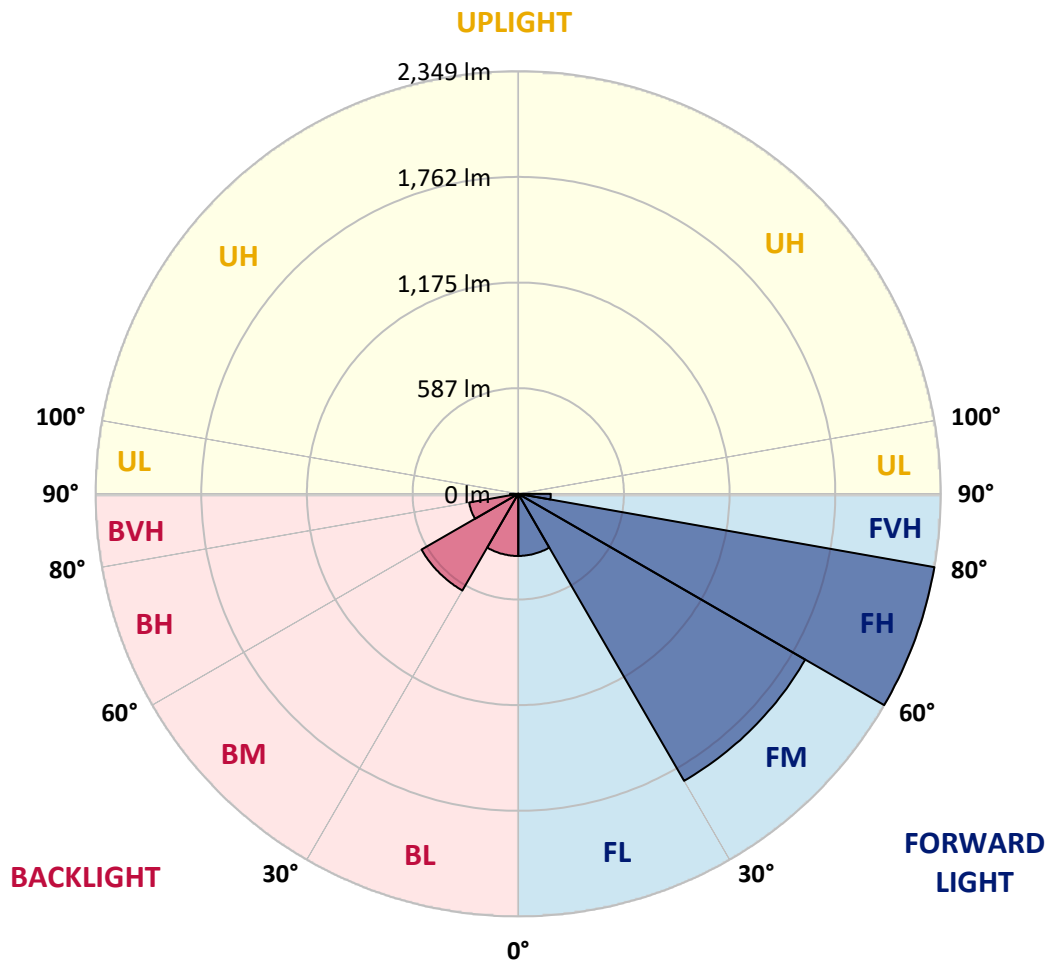
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.1	5.7			
FM (30°-60°)	1842.5	30.7			
FH (60°-80°)	2349.3	39.1			G2/5000
FVH (80°-90°)	181.0	3.0			G2/225
BL (0°-30°)	345.5	5.8	B1/500		
BM (30°-60°)	620.9	10.3	B1/1000		
BH (60°-80°)	277.4	4.6	B1/500		G1/500
BVH (80°-90°)	46.3	0.8			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	872.1	868.7	875.0	875.8	881.2	883.3	890.7	902.4	911.9	922.9	932.9
5°	793.0	790.7	799.4	805.6	817.5	822.5	840.1	864.8	886.8	911.7	934.3
7.5°	717.9	716.6	726.4	740.5	754.2	761.0	791.5	827.4	864.2	904.4	939.1
10°	654.6	654.1	663.5	677.4	697.5	705.2	744.6	791.9	843.4	898.8	947.2
12.5°	619.1	620.5	624.9	636.5	655.2	662.9	706.6	762.3	826.0	897.0	959.0
15°	627.8	630.1	622.6	622.2	635.5	641.5	682.6	741.1	813.5	900.1	976.2
17.5°	664.9	665.3	645.6	633.2	641.3	644.4	675.1	729.1	806.3	907.1	997.8
20°	717.2	716.2	681.3	660.6	664.9	665.8	685.7	729.3	805.6	919.4	1025.8
22.5°	786.5	778.9	732.0	703.7	702.7	701.5	712.9	744.6	814.8	939.3	1059.2
25°	877.0	869.8	805.2	766.6	758.3	755.2	756.9	777.4	832.8	960.7	1096.6
27.5°	977.7	965.0	902.8	848.2	831.0	826.6	816.6	823.7	852.5	981.2	1141.0
30°	1061.9	1055.1	1000.7	936.0	915.6	909.4	883.3	875.6	881.0	1009.2	1197.0
32.5°	1109.1	1104.5	1071.5	1019.2	1000.3	991.6	954.6	939.3	926.6	1053.4	1273.0
35°	1166.1	1163.2	1143.3	1105.3	1077.3	1068.2	1039.5	1023.5	991.0	1114.2	1371.2
37.5°	1238.8	1235.6	1236.1	1205.3	1171.9	1163.4	1144.5	1127.7	1074.4	1194.1	1477.8
40°	1320.9	1314.9	1312.6	1311.2	1290.0	1285.2	1275.3	1252.5	1179.0	1289.6	1583.1
42.5°	1444.6	1423.3	1377.6	1394.8	1415.8	1413.3	1421.4	1388.6	1295.2	1402.5	1685.8
45°	1564.0	1528.9	1450.0	1453.8	1499.6	1513.5	1574.1	1550.9	1421.2	1526.2	1792.0
47.5°	1618.3	1591.8	1524.7	1524.9	1570.4	1599.2	1732.1	1715.5	1553.6	1666.7	1921.7
50°	1679.1	1652.6	1592.4	1615.0	1654.7	1685.4	1884.6	1876.1	1679.6	1820.5	2077.2
52.5°	1745.6	1700.5	1662.3	1702.8	1758.4	1794.1	2037.3	2014.1	1795.2	1975.3	2255.9
55°	1746.4	1734.1	1763.2	1792.9	1876.1	1919.9	2197.4	2135.9	1889.4	2127.4	2401.4
57.5°	1845.8	1825.9	1887.5	1901.2	2010.0	2059.3	2356.5	2242.0	1985.3	2244.0	2479.8
60°	1977.4	1960.4	2010.8	2046.9	2175.6	2241.6	2526.5	2350.9	2060.6	2332.0	2476.1
62.5°	2204.6	2185.3	2184.7	2235.3	2408.6	2485.4	2717.2	2457.8	2090.5	2349.5	2370.4
65°	2537.3	2506.6	2448.7	2472.7	2730.5	2807.1	2930.4	2535.2	2051.0	2256.1	2098.4
67.5°	2861.0	2860.0	2788.8	2838.2	3155.5	3217.0	3173.2	2542.9	1928.0	1930.9	1615.6
70°	3183.8	3187.9	3175.9	3347.7	3729.8	3793.7	3431.8	2439.8	1651.3	1394.4	967.9
72.5°	3439.4	3438.4	3499.0	3942.1	4475.0	4460.7	3649.7	2127.2	1185.6	752.7	462.6
75°	3273.8	3237.7	3418.3	4236.4	4909.4	4839.4	3464.3	1483.9	615.3	342.6	249.0
77.5°	2135.3	2169.5	2434.6	3499.6	4294.3	4209.2	2541.6	692.3	289.9	224.8	180.6
80°	773.3	809.4	1140.0	1982.3	2958.6	2944.7	1251.6	284.5	196.1	169.8	131.6
82.5°	266.1	279.3	449.7	880.4	1670.4	1732.7	470.9	161.7	142.6	120.4	90.1
85°	104.4	119.5	205.7	423.6	842.6	848.8	190.7	96.7	99.2	78.9	49.4
87.5°	39.6	48.1	98.4	196.7	384.8	353.4	68.3	46.1	56.4	46.9	23.5
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°	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1	939.1
2.5°	940.5	944.9	954.0	960.3	966.9	968.8	969.6	971.3	972.9	972.3	972.5
5°	946.3	954.9	969.6	975.8	978.7	975.4	969.0	963.8	960.0	958.0	957.3
7.5°	955.9	967.9	983.7	982.7	976.0	961.3	944.7	932.2	921.9	918.1	916.0
10°	968.6	982.7	993.7	981.8	962.5	937.0	912.1	892.8	877.2	871.2	870.2
12.5°	984.7	999.1	1001.1	976.0	944.1	909.2	875.4	849.8	826.6	819.1	817.5
15°	1005.7	1019.2	1006.3	965.9	921.2	874.3	830.5	795.9	771.4	762.3	758.9
17.5°	1027.7	1040.6	1007.4	949.0	891.4	833.0	778.0	742.6	714.5	703.9	702.7
20°	1054.1	1059.9	1003.0	925.0	850.3	779.5	721.6	688.2	673.2	665.8	664.9
22.5°	1086.6	1080.4	993.0	892.4	798.2	717.6	670.5	655.0	651.2	649.6	650.2
25°	1121.1	1102.0	978.3	849.8	732.4	655.8	633.2	637.5	642.5	641.9	641.9
27.5°	1159.1	1124.0	955.7	793.4	659.5	605.2	607.9	623.8	631.3	631.1	630.9
30°	1207.8	1148.9	926.8	725.5	591.5	569.5	585.9	605.4	615.5	615.1	615.3
32.5°	1267.8	1176.3	887.6	649.8	542.3	543.1	562.0	581.3	593.1	592.1	592.3
35°	1338.0	1207.0	834.5	575.1	509.7	522.2	537.1	550.6	561.8	560.3	558.9
37.5°	1414.3	1237.1	763.9	508.2	483.1	502.6	515.1	517.4	522.6	518.8	516.1
40°	1487.0	1260.1	673.0	453.5	456.4	486.0	494.1	485.0	475.7	474.4	470.7
42.5°	1550.3	1267.8	581.1	409.7	428.1	468.6	473.6	454.5	437.7	429.8	426.5
45°	1617.1	1270.5	495.4	372.9	401.0	453.0	458.4	432.9	409.3	392.2	386.6
47.5°	1704.5	1290.0	428.8	345.7	380.2	442.7	450.3	415.7	385.0	360.7	355.5
50°	1818.8	1328.6	374.6	325.0	366.7	435.8	444.5	398.9	365.0	335.8	330.6
52.5°	1945.8	1364.1	330.8	308.2	353.6	423.8	437.1	386.8	346.4	312.8	307.1
55°	2034.6	1336.9	295.5	290.8	336.6	406.6	426.7	376.7	319.6	290.3	285.4
57.5°	2051.7	1243.9	268.8	272.7	316.1	385.0	410.7	354.1	305.1	280.6	275.4
60°	2005.2	1114.4	248.8	256.1	294.1	357.8	380.8	338.1	291.2	270.2	265.8
62.5°	1888.3	981.8	234.1	241.2	273.5	330.2	362.1	321.3	277.1	258.4	254.0
65°	1652.4	824.3	220.0	227.9	254.4	306.3	345.3	305.7	263.2	248.8	244.7
67.5°	1247.3	617.4	206.7	213.8	237.4	285.6	327.1	290.3	249.7	240.5	235.5
70°	734.5	386.6	191.6	199.0	219.6	264.0	307.6	273.5	232.9	228.7	222.3
72.5°	341.8	232.6	174.3	181.6	197.2	235.1	282.5	251.5	212.9	203.8	195.1
75°	204.0	170.2	154.0	160.4	171.4	204.4	250.9	229.1	194.0	182.0	172.9
77.5°	152.5	130.1	131.6	138.4	147.3	178.9	222.3	211.5	179.5	170.2	164.0
80°	109.8	98.8	107.3	114.8	124.1	162.7	212.9	195.5	162.3	149.8	144.0
82.5°	73.3	71.0	80.7	88.4	97.5	142.4	200.1	171.2	138.6	122.9	110.0
85°	40.5	42.8	54.4	57.7	65.6	100.2	164.0	137.6	104.4	84.1	80.3
87.5°	16.8	19.7	29.3	28.2	34.9	59.8	107.9	83.0	66.4	49.6	38.6
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)