

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: P526710

Luminaire Tested: **GALN-SA1C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4820 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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



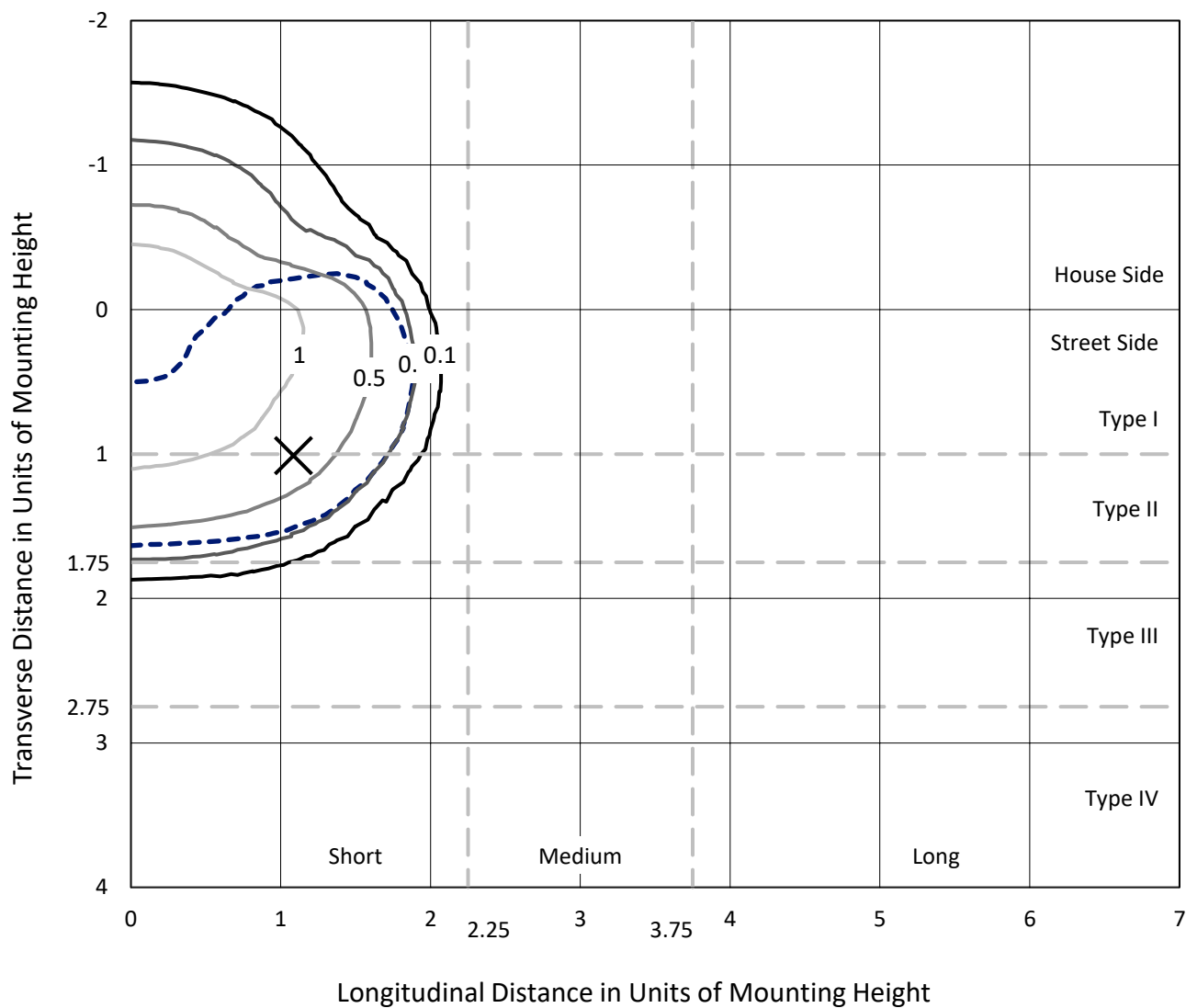
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

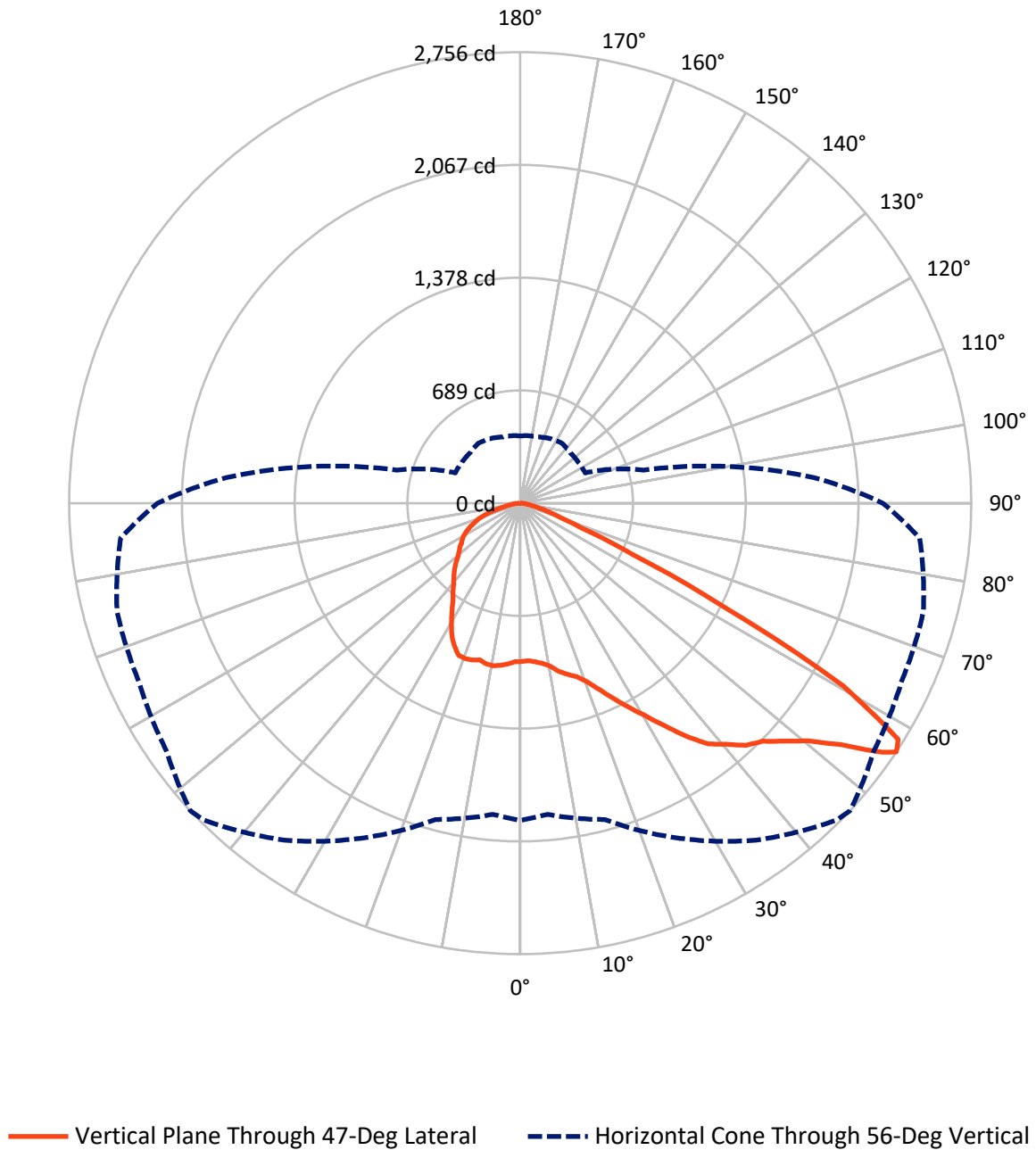
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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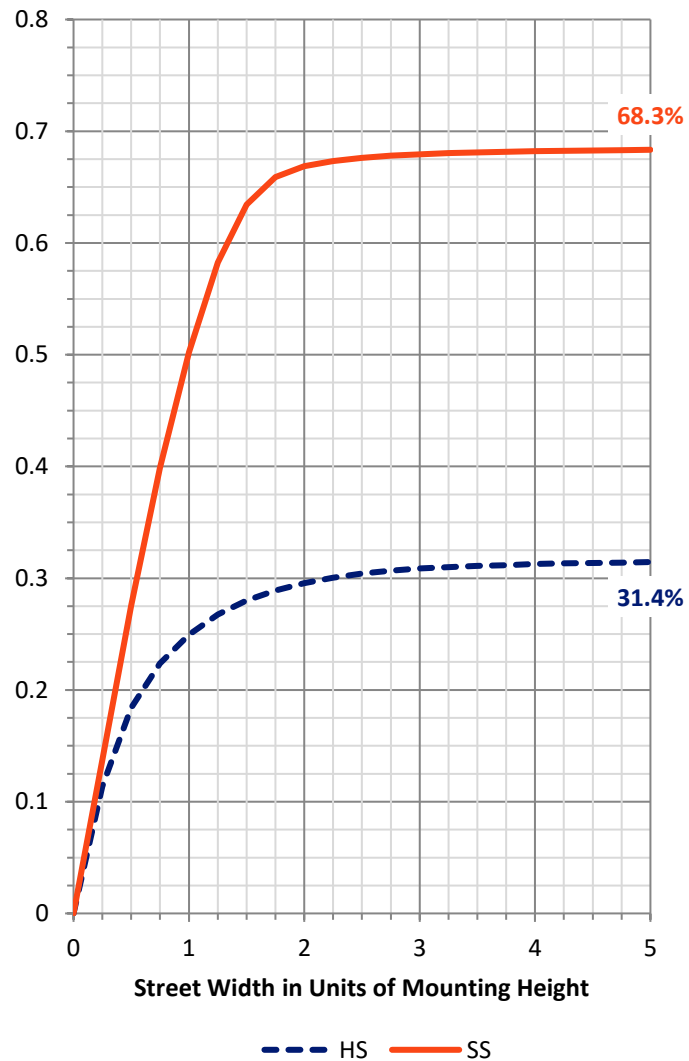
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.4	0.0	1527.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3292.6	0.0	3292.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	4820.0	0.0	4820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	2.0
10°-20°	297.6	6.2
20°-30°	526.1	10.9
30°-40°	790.1	16.4
40°-50°	1084.4	22.5
50°-60°	1291.9	26.8
60°-70°	552.9	11.5
70°-80°	156.5	3.2
80°-90°	26.3	0.5
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°	4820.0	100.0
0°-180°	4820.0	100.0

Coefficient of Utilization



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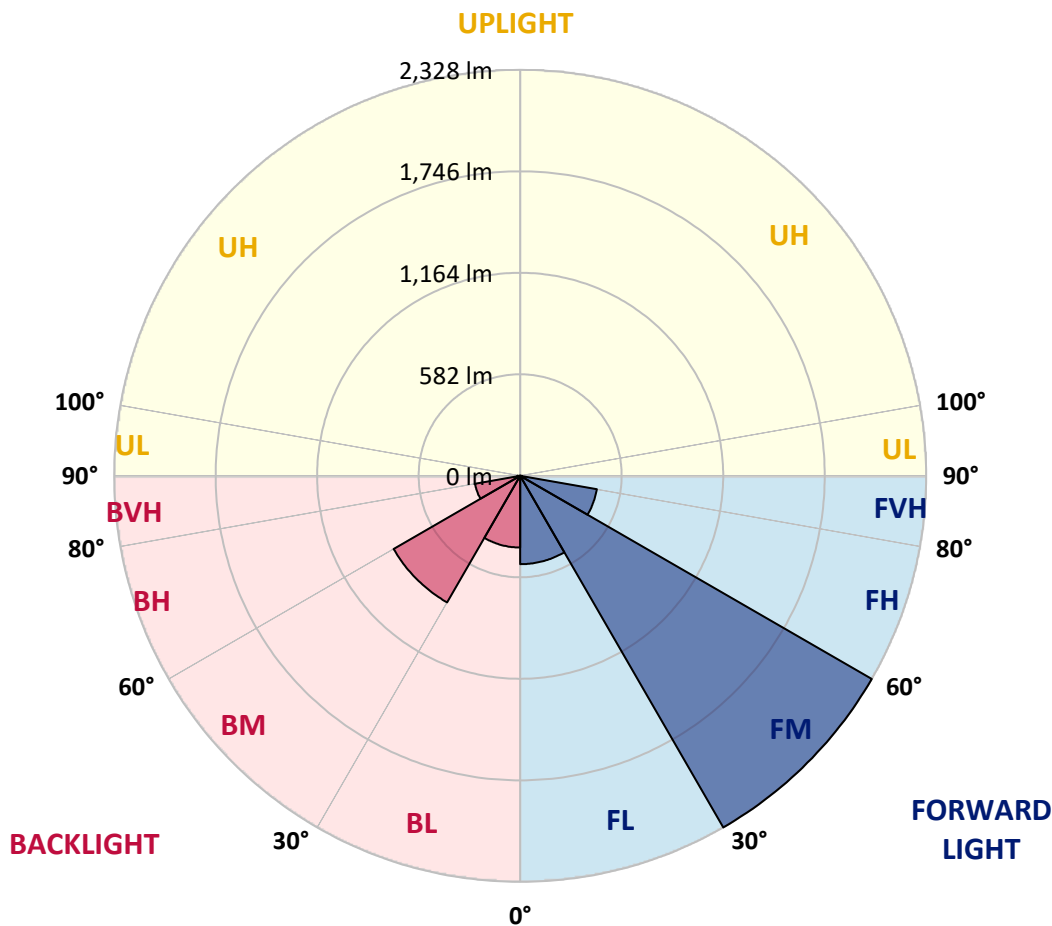
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.7	10.5			
FM	(30°-60°)	2328.2	48.3			
FH	(60°-80°)	446.5	9.3			G0/660
FVH	(80°-90°)	11.2	0.2			G1/100
BL	(0°-30°)	411.2	8.5	B1/500		
BM	(30°-60°)	838.2	17.4	B1/1000		
BH	(60°-80°)	262.8	5.5	B1/500		G1/500
BVH	(80°-90°)	15.1	0.3			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2
2.5°	964.5	962.7	961.4	971.3	967.6	968.2	964.5	968.2	970.7	965.1	973.1
5°	962.7	968.2	963.3	966.3	974.3	971.9	974.3	981.7	979.9	978.0	975.6
7.5°	979.9	980.5	984.2	985.4	987.9	985.4	989.1	995.9	994.0	983.6	984.8
10°	1004.5	1005.7	1006.3	1013.1	1017.4	1018.0	1013.7	1007.5	1006.9	1021.1	1011.2
12.5°	1032.7	1029.7	1037.0	1039.5	1044.4	1049.9	1055.5	1042.6	1050.6	1051.2	1039.5
15°	1073.9	1077.0	1068.4	1068.4	1070.2	1070.9	1086.2	1080.1	1078.8	1072.1	1077.0
17.5°	1135.4	1114.5	1113.9	1105.3	1104.0	1109.0	1114.5	1119.4	1136.0	1122.5	1096.1
20°	1180.3	1185.2	1167.4	1156.9	1158.8	1169.8	1164.3	1186.4	1198.1	1176.0	1150.2
22.5°	1259.6	1243.0	1247.3	1223.9	1225.8	1237.4	1236.8	1259.6	1266.3	1231.3	1193.8
25°	1313.1	1308.7	1312.4	1294.0	1296.5	1305.7	1320.4	1357.9	1346.9	1308.1	1221.5
27.5°	1391.1	1382.5	1379.4	1372.7	1370.2	1394.8	1412.0	1452.0	1444.0	1387.4	1270.6
30°	1471.0	1465.5	1468.6	1440.9	1450.8	1503.0	1507.9	1562.6	1558.9	1459.4	1325.3
32.5°	1526.4	1529.4	1535.0	1519.6	1563.2	1605.0	1621.6	1683.7	1686.8	1582.9	1431.1
35°	1615.5	1605.0	1608.1	1625.9	1646.2	1722.5	1749.5	1790.7	1816.5	1712.6	1532.5
37.5°	1671.4	1682.5	1669.6	1697.9	1750.7	1842.3	1866.9	1909.3	1936.4	1840.5	1670.8
40°	1758.7	1740.9	1750.1	1770.4	1824.5	1943.8	1937.0	1980.6	1989.2	1949.3	1799.9
42.5°	1852.8	1844.2	1831.3	1877.4	1922.9	2009.5	2023.1	2002.8	2046.4	2055.6	1984.3
45°	1965.3	1975.7	1977.6	1978.8	2018.8	2094.4	2075.9	2058.1	2108.5	2175.5	2098.7
47.5°	2069.8	2036.6	2060.6	2093.8	2150.3	2150.9	2172.4	2130.0	2183.5	2243.1	2201.9
50°	2104.8	2088.8	2120.8	2183.5	2270.8	2280.0	2282.5	2222.2	2249.9	2297.2	2237.6
52.5°	2091.3	2085.8	2167.5	2264.6	2392.5	2439.2	2451.5	2377.1	2392.5	2371.0	2316.3
55°	2026.7	2043.3	2125.7	2323.7	2519.8	2664.2	2687.6	2593.5	2495.8	2512.4	2452.1
56°	1938.2	1909.3	2001.5	2256.7	2514.2	2737.4	2756.4	2639.0	2572.6	2551.1	2450.9
57.5°	1644.4	1606.9	1728.0	2030.4	2374.7	2709.7	2723.8	2658.1	2559.7	2516.1	2272.0
60°	962.7	981.1	1134.8	1400.3	1831.9	2221.6	2268.9	2316.9	2251.1	2055.6	1691.1
62.5°	464.7	453.1	563.1	802.8	1116.3	1418.2	1404.0	1538.7	1612.4	1460.6	1067.8
65°	243.4	242.2	307.4	438.3	613.5	745.0	758.0	830.5	931.9	752.4	542.2
67.5°	178.9	183.8	216.4	308.0	394.7	402.6	400.8	437.1	446.9	378.1	333.2
70°	140.2	142.6	166.6	234.2	293.8	263.1	257.6	261.9	290.8	303.1	288.3
72.5°	101.4	103.9	124.2	158.0	183.8	179.5	183.2	207.2	242.8	255.7	240.4
75°	67.6	69.5	80.5	96.5	108.8	117.4	124.2	151.8	185.0	192.4	185.0
77.5°	46.7	48.6	55.9	68.2	69.5	75.0	77.5	90.4	110.7	119.9	115.0
80°	26.4	26.4	30.1	35.0	43.0	50.4	51.6	62.1	71.3	77.5	78.7
82.5°	12.3	12.9	16.0	21.5	28.3	35.0	36.3	43.0	49.8	55.9	57.8
85°	6.1	6.8	9.2	12.9	17.2	20.9	20.3	20.9	22.1	20.9	21.5
87.5°	1.8	1.8	2.5	3.1	2.5	3.1	3.1	3.7	4.3	4.9	5.5
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°	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2	968.2
2.5°	973.7	975.6	963.3	975.0	970.7	970.0	978.6	977.4	980.5	979.3	971.9
5°	974.3	970.0	982.9	971.3	976.8	988.5	980.5	998.9	989.7	995.9	982.3
7.5°	993.4	994.6	992.2	997.1	994.6	1000.2	995.9	1000.2	992.8	993.4	1005.7
10°	1010.0	1006.3	1010.6	1004.5	1008.8	1006.9	997.1	994.0	996.5	993.4	1001.4
12.5°	1040.7	1034.0	1030.9	1023.5	1018.6	1000.2	984.8	976.2	987.9	989.7	986.0
15°	1072.1	1072.7	1058.6	1042.0	1011.2	983.6	987.2	990.3	990.3	995.2	986.0
17.5°	1091.8	1091.8	1078.8	1045.6	1014.3	998.3	994.6	984.8	976.2	975.0	974.3
20°	1126.2	1115.7	1086.2	1045.0	1013.1	1005.7	978.0	954.7	936.8	930.7	930.1
22.5°	1165.5	1139.1	1097.9	1046.3	1011.2	1000.8	949.1	914.1	882.1	868.6	870.5
25°	1201.8	1159.4	1104.7	1040.7	1004.5	954.1	896.3	847.7	814.5	803.4	797.9
27.5°	1227.0	1180.9	1104.7	1045.6	979.3	901.8	842.8	780.7	751.8	744.4	745.7
30°	1260.8	1207.9	1123.7	1035.2	928.8	834.2	763.5	722.9	705.7	699.6	703.9
32.5°	1340.1	1278.6	1150.2	1010.0	869.2	766.6	709.4	686.6	661.4	649.1	644.8
35°	1426.2	1345.6	1176.0	967.6	802.2	705.1	669.4	648.5	618.4	604.9	607.3
37.5°	1547.9	1431.7	1177.8	897.5	729.7	670.7	638.1	605.5	580.9	560.0	553.9
40°	1712.0	1549.1	1173.5	823.7	671.3	630.1	606.1	565.5	537.9	523.1	526.2
42.5°	1856.5	1686.8	1155.7	740.1	618.4	602.4	575.4	535.4	508.4	493.0	491.8
45°	1978.2	1788.2	1121.9	668.8	574.2	571.7	540.3	509.6	488.1	474.0	480.1
47.5°	2090.7	1870.0	1070.9	597.5	533.6	538.5	508.4	489.3	475.8	462.9	462.3
50°	2131.3	1868.8	1026.0	538.5	501.0	498.5	497.3	477.0	462.9	451.8	456.7
52.5°	2198.9	1889.7	977.4	497.9	471.5	472.1	476.4	461.7	445.7	438.9	445.1
55°	2296.0	1892.7	870.5	450.6	446.9	451.2	451.2	441.4	427.8	422.3	419.2
56°	2216.7	1801.1	780.7	438.3	434.6	434.6	446.3	435.2	418.6	414.3	410.6
57.5°	2044.6	1578.0	653.5	423.5	418.0	426.6	432.8	421.1	405.7	399.6	403.3
60°	1410.2	1067.8	491.2	391.6	391.6	405.7	410.6	393.4	386.7	386.0	381.1
62.5°	823.1	622.1	384.2	362.7	363.9	375.6	379.3	369.4	360.8	371.3	376.2
65°	436.5	371.3	329.5	332.0	332.6	341.8	357.8	357.2	356.5	359.6	360.2
67.5°	316.0	308.6	299.4	296.9	298.1	304.9	320.9	333.2	332.6	325.2	319.7
70°	281.5	271.1	265.6	266.2	261.3	269.2	282.2	290.2	276.0	267.4	263.7
72.5°	234.2	231.1	227.4	228.1	218.2	216.4	201.6	201.6	197.9	195.5	199.8
75°	178.9	177.7	179.5	176.4	166.0	154.9	146.3	138.3	126.0	121.1	118.6
77.5°	113.1	116.8	121.1	114.3	110.0	102.0	93.4	85.4	75.6	70.1	70.1
80°	76.8	79.9	83.0	81.8	76.8	69.5	62.7	54.1	47.3	43.0	42.4
82.5°	58.4	60.9	65.2	60.2	55.3	49.2	43.6	37.5	31.4	26.4	26.4
85°	20.9	24.0	26.4	28.9	30.7	31.4	27.0	22.1	17.8	14.1	13.5
87.5°	5.5	6.1	6.8	6.1	6.1	6.1	6.8	6.1	5.5	4.3	4.3
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)