

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: P648235

Luminaire Tested: **GALN-SA1B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.4 lumens
Efficiency: N/A
Efficacy: 89.4 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): 44
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

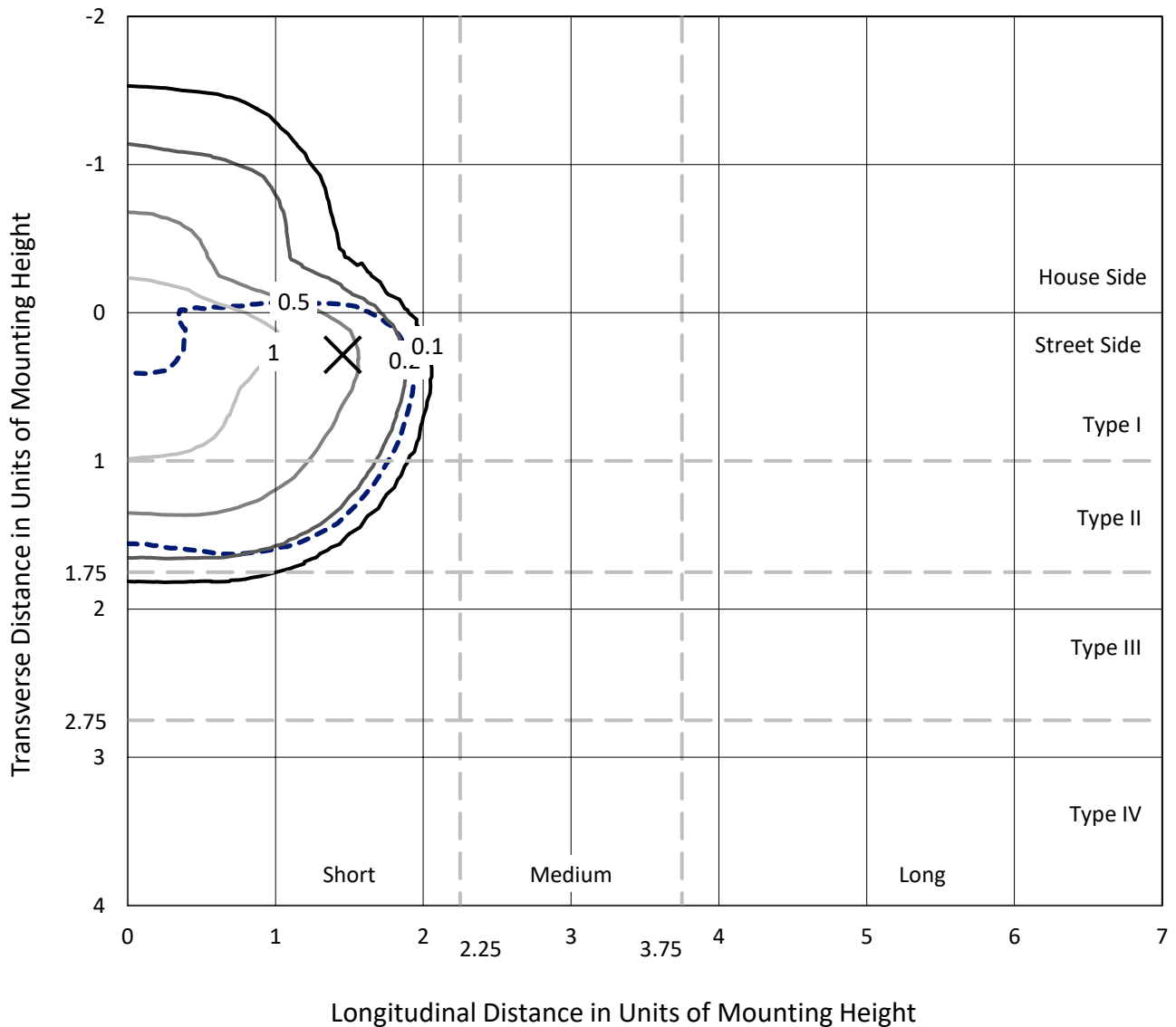




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Iso-Footcandle Lines of Horizontal Illumination

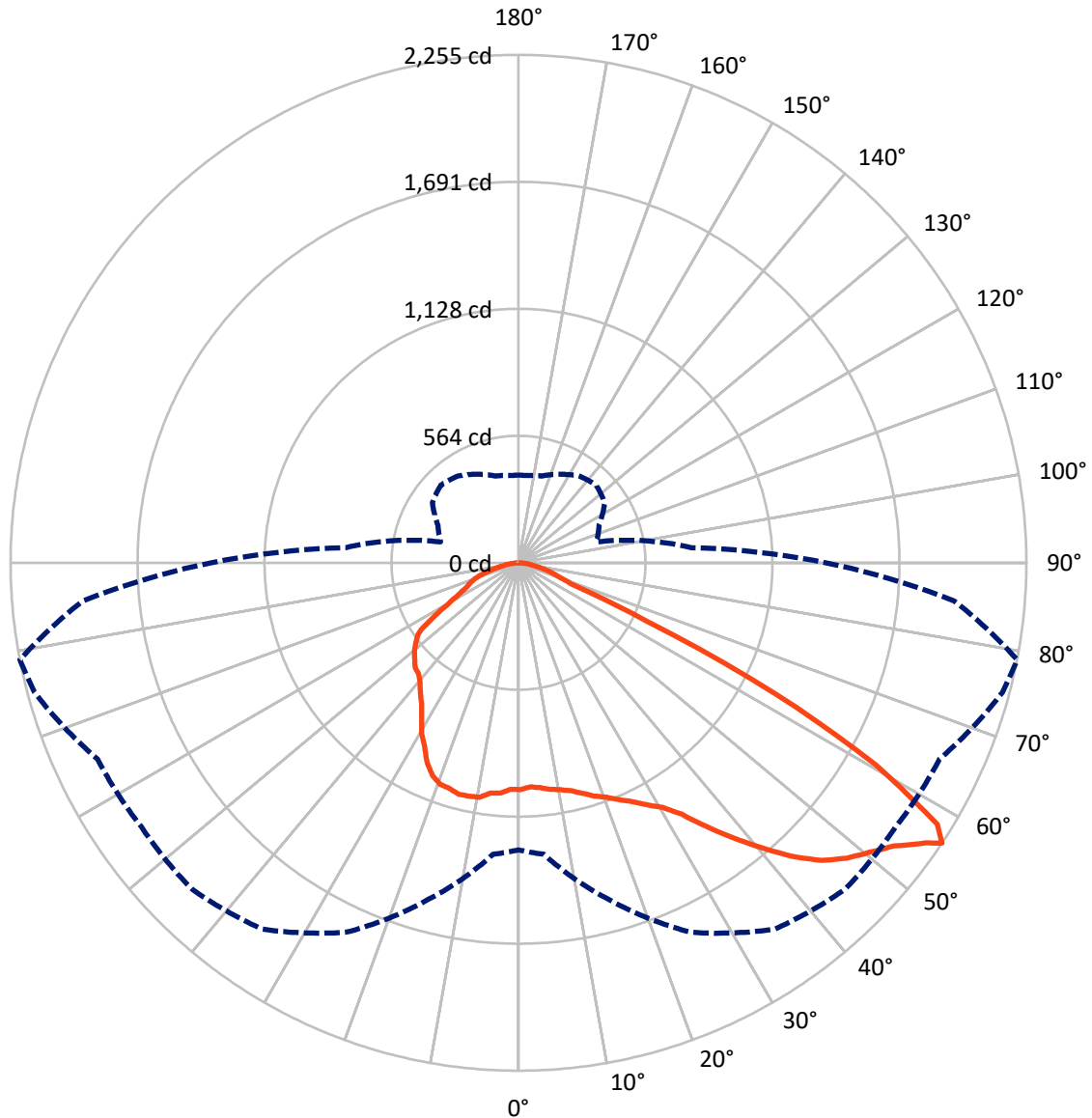
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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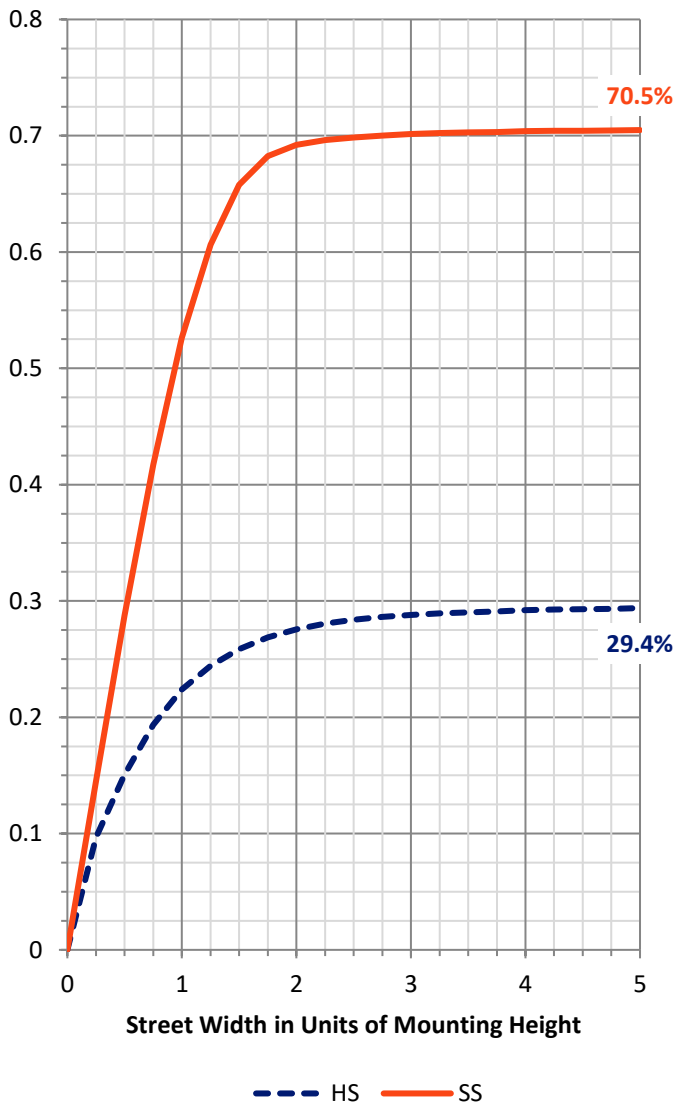
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.2	0.0	1162.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2773.2	0.0	2773.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	3935.4	0.0	3935.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	2.3
10°-20°	250.5	6.4
20°-30°	428.6	10.9
30°-40°	656.9	16.7
40°-50°	887.8	22.6
50°-60°	1019.7	25.9
60°-70°	464.8	11.8
70°-80°	114.6	2.9
80°-90°	20.8	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°	3935.4	100.0
0°-180°	3935.4	100.0

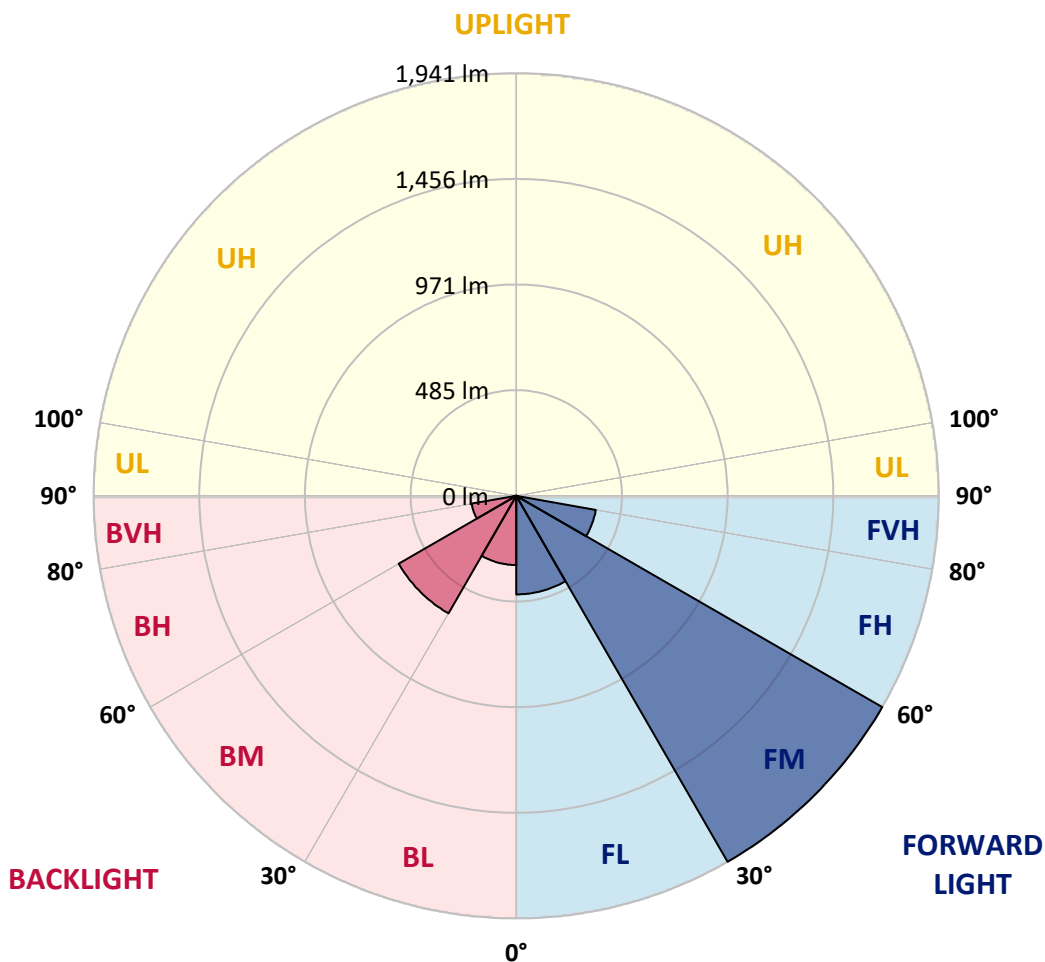


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.8	11.5			
FM (30°-60°)	1941.0	49.3			
FH (60°-80°)	371.0	9.4			G0/660
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	317.9	8.1	B1/500		
BM (30°-60°)	623.4	15.8	B1/1000		
BH (60°-80°)	208.4	5.3	B1/500		G1/500
BVH (80°-90°)	12.5	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°	55°	65°	75°	79°	85°
0°	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9
2.5°	957.8	955.4	961.3	965.8	971.2	978.0	981.4	983.4	1000.5	996.1	1009.4
5°	937.3	930.9	935.3	938.7	948.1	956.4	965.8	980.4	996.1	1002.9	1019.2
7.5°	919.2	915.7	914.8	917.2	930.0	940.7	956.9	978.4	1004.0	1015.2	1024.6
10°	889.3	884.3	891.7	907.9	911.3	933.9	952.5	983.4	1005.5	1025.0	1052.5
12.5°	876.0	871.1	872.6	881.9	905.9	927.5	949.5	984.4	1030.9	1038.7	1075.5
15°	897.1	892.2	893.6	891.2	914.2	925.5	960.3	1004.0	1048.6	1061.8	1101.1
17.5°	945.2	945.6	939.3	933.9	928.5	952.5	976.5	1015.7	1055.4	1088.8	1118.2
20°	1036.8	1020.6	1007.9	977.5	969.1	979.5	1009.8	1047.6	1083.4	1110.8	1144.2
22.5°	1107.4	1108.9	1090.7	1040.8	1022.6	1027.0	1053.0	1083.8	1123.1	1142.7	1180.9
25°	1209.8	1199.6	1180.0	1140.2	1099.6	1103.0	1122.1	1150.1	1160.8	1174.6	1216.2
27.5°	1303.5	1306.4	1267.7	1230.4	1180.0	1170.1	1204.5	1209.3	1191.3	1217.2	1231.4
30°	1398.6	1396.2	1370.6	1327.0	1277.5	1279.5	1294.7	1270.7	1245.7	1259.8	1269.6
32.5°	1497.1	1469.1	1468.2	1429.0	1391.2	1373.1	1354.4	1366.3	1327.5	1330.5	1321.2
35°	1576.0	1579.9	1557.4	1529.4	1510.9	1479.0	1428.0	1449.1	1441.7	1438.3	1398.1
37.5°	1633.4	1618.2	1629.5	1620.2	1602.5	1562.8	1509.9	1530.0	1533.4	1550.0	1503.5
40°	1680.5	1674.1	1704.0	1708.9	1696.6	1610.9	1515.7	1575.6	1627.0	1663.3	1607.9
42.5°	1703.0	1716.7	1748.1	1785.9	1758.4	1666.7	1546.1	1610.4	1725.1	1782.4	1706.9
45°	1733.4	1715.8	1762.3	1831.4	1831.9	1713.8	1575.6	1657.5	1801.5	1884.9	1774.6
47.5°	1702.6	1711.3	1759.4	1847.1	1869.6	1763.3	1654.9	1724.1	1885.9	1959.8	1837.3
50°	1633.4	1651.0	1738.8	1829.9	1898.1	1815.8	1746.2	1796.1	1963.8	2020.1	1847.6
52.5°	1561.3	1571.2	1708.4	1843.2	1910.8	1883.4	1868.2	1895.6	2058.9	2088.3	1860.3
55°	1365.2	1411.8	1607.9	1837.3	1973.1	2005.5	1993.7	2033.9	2166.7	2196.2	1930.0
56°	1274.6	1299.1	1547.6	1809.9	1985.4	2050.1	2044.2	2062.3	2224.1	2255.0	1940.7
57.5°	1106.9	1108.9	1319.7	1688.3	1939.3	2063.3	2057.4	2071.7	2212.8	2191.8	1846.2
60°	692.6	723.1	898.1	1298.6	1649.1	1914.3	1947.6	1833.4	1865.7	1821.2	1436.3
62.5°	358.8	354.5	470.6	759.4	1094.6	1370.6	1401.5	1396.2	1346.1	1280.9	938.3
65°	178.9	179.9	246.1	376.0	560.8	717.7	804.0	813.3	680.4	626.0	445.1
67.5°	129.9	134.8	177.0	229.9	264.3	295.6	362.3	355.4	269.1	255.9	237.2
70°	101.0	105.4	143.6	175.5	159.3	159.3	173.5	179.4	191.7	197.1	203.4
72.5°	73.5	77.0	109.8	121.1	104.5	112.3	129.9	143.6	156.4	158.3	165.7
75°	50.5	53.4	72.0	66.6	62.7	77.4	95.1	107.8	117.1	122.1	126.5
77.5°	32.8	33.8	41.2	34.8	40.2	50.0	61.8	72.6	81.9	85.8	86.8
80°	14.7	16.2	17.6	22.1	28.0	35.8	44.1	52.9	58.8	60.3	63.3
82.5°	8.3	8.3	10.8	15.7	20.6	26.0	31.9	38.2	45.1	46.6	46.1
85°	4.4	4.4	6.3	9.3	12.8	15.2	14.7	15.2	16.2	18.6	18.2
87.5°	1.5	1.5	2.0	2.0	2.4	3.0	2.4	3.4	4.4	4.4	4.4
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°	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9	1006.9
2.5°	1005.5	1009.8	1004.0	1016.7	1016.7	1014.2	1002.0	1005.9	1008.9	1008.9	1011.3
5°	1024.6	1023.1	1027.0	1011.8	1002.5	999.0	979.0	969.1	960.8	960.3	953.0
7.5°	1035.4	1031.4	1030.0	1018.7	977.5	952.5	909.4	884.3	878.9	859.8	867.2
10°	1052.5	1059.9	1052.5	991.2	933.9	876.5	834.4	795.6	780.4	768.2	760.8
12.5°	1087.8	1084.4	1041.7	958.9	878.4	810.3	747.6	706.9	691.7	680.9	680.0
15°	1117.7	1100.5	1035.4	907.9	792.2	719.7	668.1	639.2	632.4	633.4	637.8
17.5°	1128.0	1116.2	1002.0	855.0	728.0	642.7	618.6	614.3	620.6	628.0	629.9
20°	1144.2	1125.6	988.3	782.8	648.6	594.6	593.1	608.9	620.6	631.4	632.9
22.5°	1178.0	1131.0	943.7	714.7	594.1	580.4	594.6	607.8	626.0	634.9	626.9
25°	1187.8	1119.1	881.0	632.9	559.8	571.6	586.8	604.9	617.7	622.6	626.0
27.5°	1196.1	1101.1	796.1	578.5	549.0	571.1	586.8	602.0	608.9	613.2	617.2
30°	1219.7	1095.7	722.6	542.1	542.1	561.3	581.4	585.3	594.6	600.0	606.9
32.5°	1231.4	1058.4	647.1	519.1	535.3	566.2	567.7	575.0	575.5	579.9	572.6
35°	1262.3	1031.9	577.0	502.5	538.2	561.3	568.6	564.2	540.2	528.4	530.9
37.5°	1284.8	1018.7	526.5	500.5	538.8	566.7	570.6	537.3	512.2	492.7	497.6
40°	1345.7	985.8	488.3	497.0	543.2	572.6	561.8	525.5	480.4	460.3	456.9
42.5°	1392.2	962.3	464.2	493.1	546.6	580.9	557.3	502.0	455.9	437.3	442.2
45°	1446.1	956.9	451.5	494.2	552.5	585.3	552.0	483.8	434.8	427.4	426.0
47.5°	1465.2	918.1	437.8	485.8	551.0	583.9	533.8	470.1	427.0	428.0	431.9
50°	1433.4	878.4	427.4	468.6	541.2	570.6	505.4	451.9	422.6	434.8	441.7
52.5°	1392.7	837.8	406.4	445.6	521.1	550.1	492.2	451.0	418.1	414.2	415.7
55°	1404.9	804.5	377.0	414.2	488.7	511.8	477.5	441.7	407.4	392.7	397.5
56°	1365.2	770.2	357.8	394.6	466.7	487.3	470.1	433.3	398.5	388.8	388.8
57.5°	1253.0	654.9	332.9	363.2	420.1	444.6	455.9	428.5	388.8	371.6	372.1
60°	924.0	465.7	298.6	320.1	348.0	367.7	420.1	414.8	364.3	352.4	348.0
62.5°	569.6	340.2	274.0	282.3	296.6	312.7	366.7	375.5	338.3	325.5	322.6
65°	319.2	260.3	255.4	258.9	265.7	274.0	304.4	324.0	298.6	278.9	278.0
67.5°	233.3	232.9	236.8	239.7	242.7	242.7	250.0	257.8	254.4	238.7	237.2
70°	207.3	208.8	211.8	212.3	213.2	209.8	203.9	201.5	205.4	195.6	193.6
72.5°	171.1	176.0	179.4	179.9	174.5	170.1	162.2	153.9	151.0	149.0	148.5
75°	131.4	134.8	136.2	135.8	133.8	127.5	118.2	109.8	104.5	98.5	101.5
77.5°	88.7	93.6	96.1	96.1	93.2	83.3	78.9	72.6	67.2	60.8	61.8
80°	62.2	65.7	69.6	69.1	64.2	59.4	52.9	47.1	42.7	37.7	37.3
82.5°	46.6	48.5	50.5	49.5	46.1	41.2	36.8	31.4	26.5	23.0	23.0
85°	16.7	18.2	22.1	23.0	25.0	25.0	21.1	17.6	14.3	11.7	11.7
87.5°	4.9	4.9	5.4	5.4	4.9	5.4	4.4	4.9	5.4	3.4	3.4
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)