

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: P648352

Luminaire Tested: **GALN-SA3B-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13310.2 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

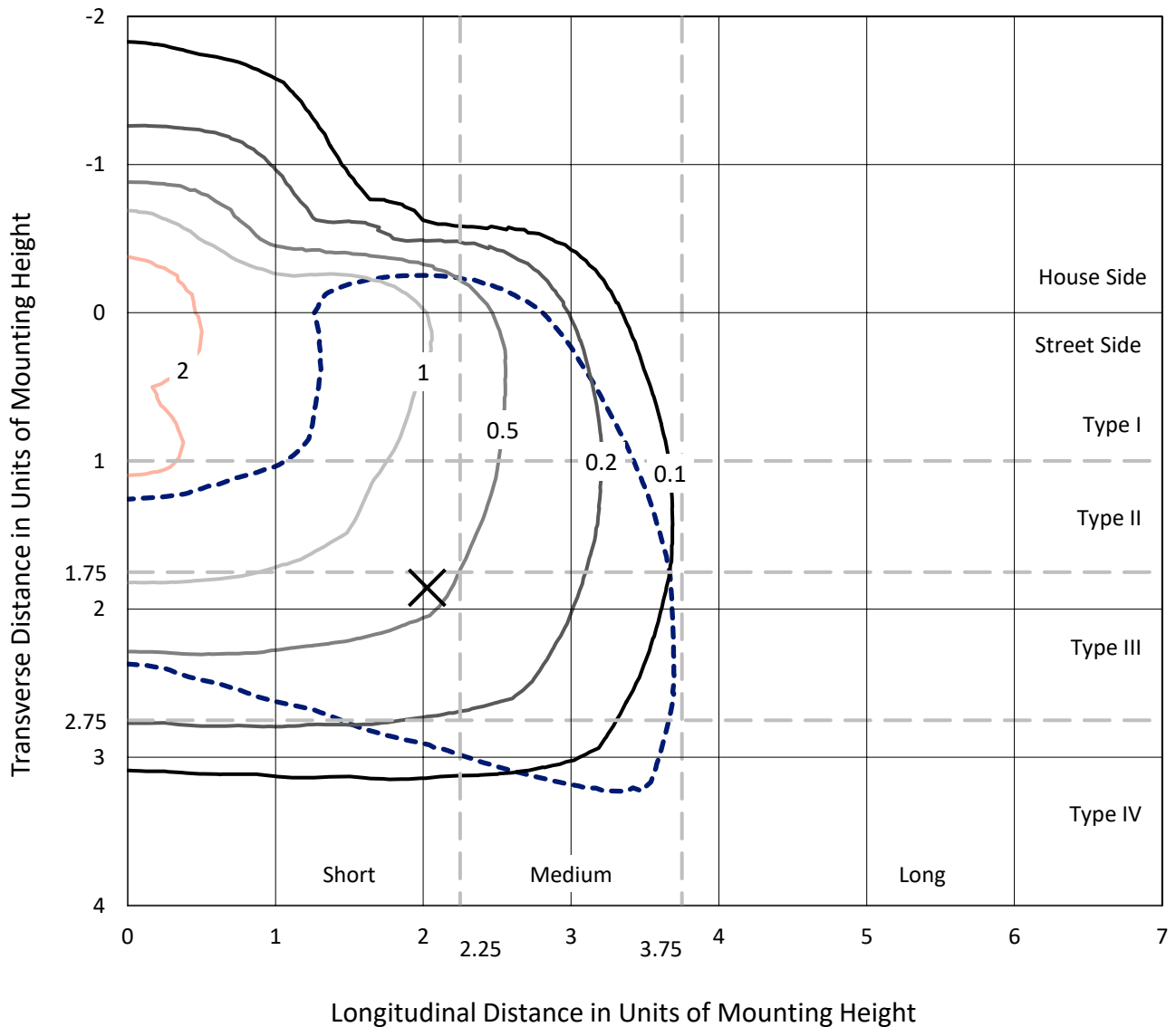
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

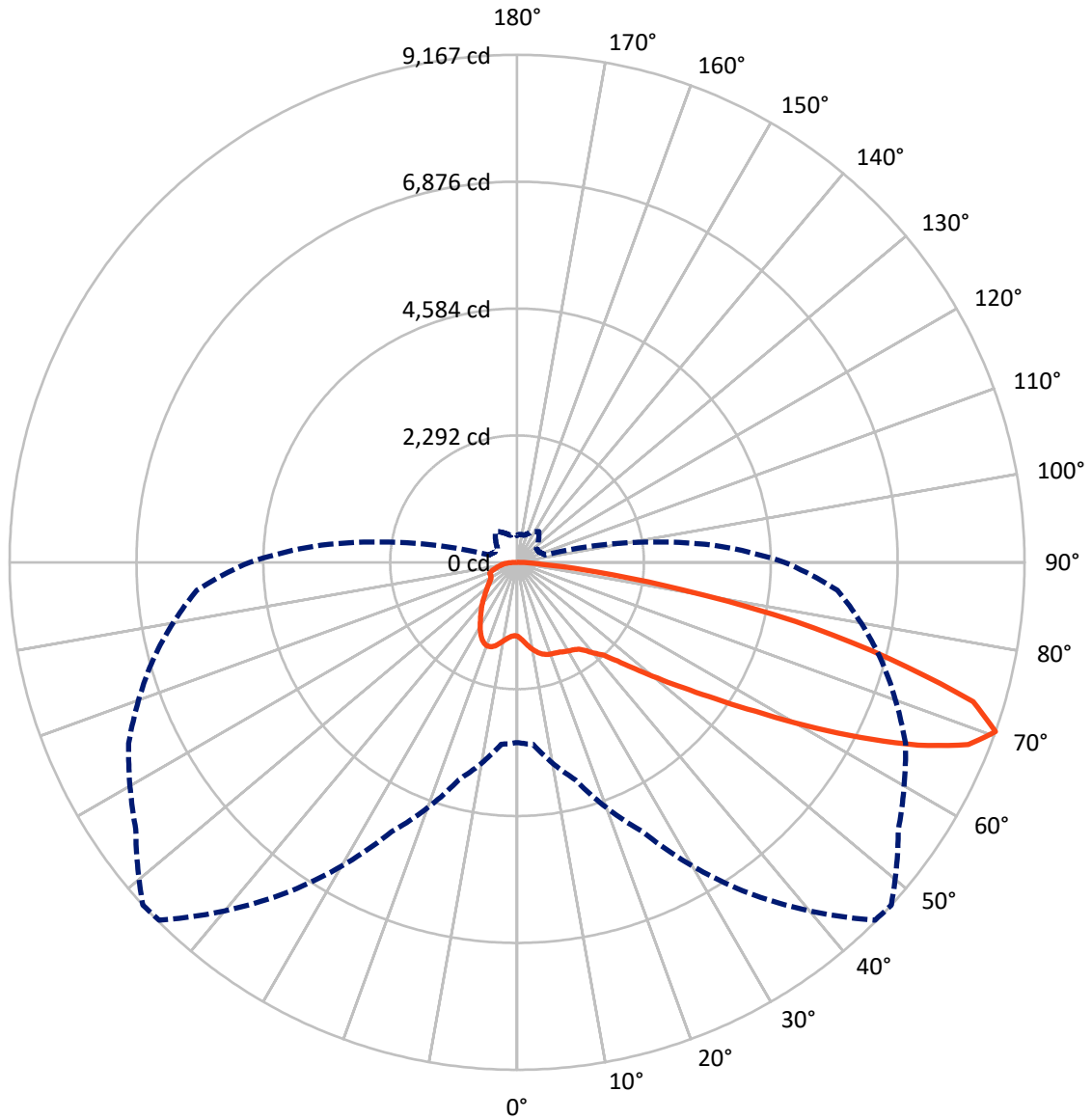
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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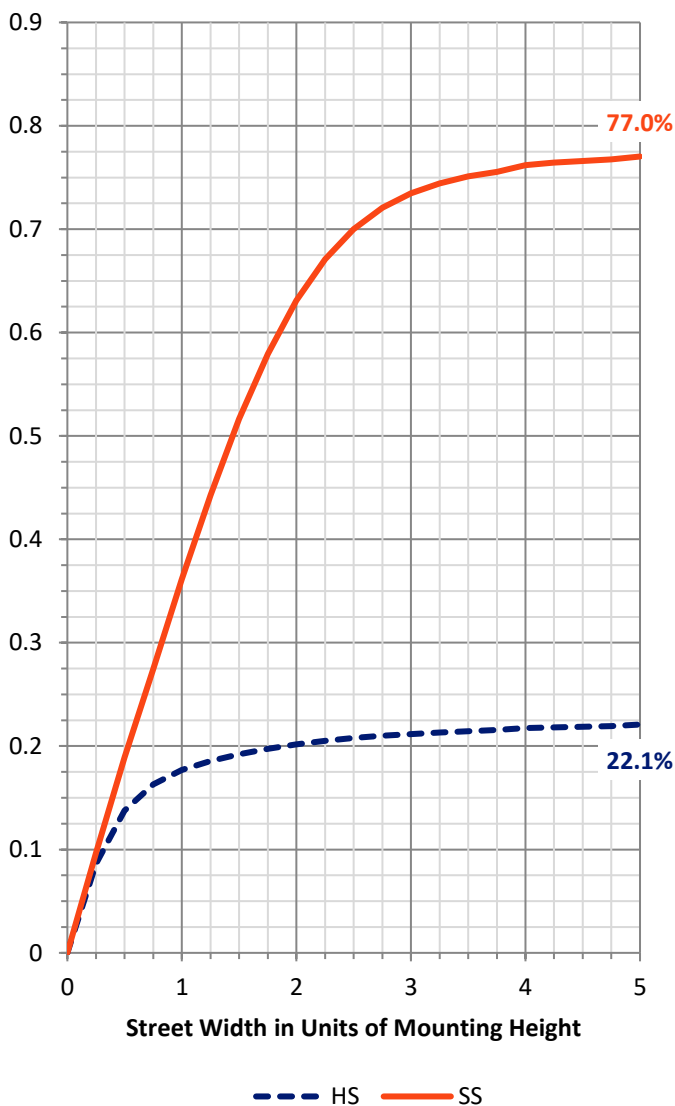
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3013.7	0.0	3013.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10296.5	0.0	10296.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	13310.2	0.0	13310.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.0
10°-20°	460.5	3.5
20°-30°	765.7	5.8
30°-40°	1085.3	8.2
40°-50°	1602.1	12.0
50°-60°	2775.0	20.8
60°-70°	3919.7	29.4
70°-80°	2253.3	16.9
80°-90°	310.9	2.3
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°	13310.2	100.0
0°-180°	13310.2	100.0

Coefficient of Utilization



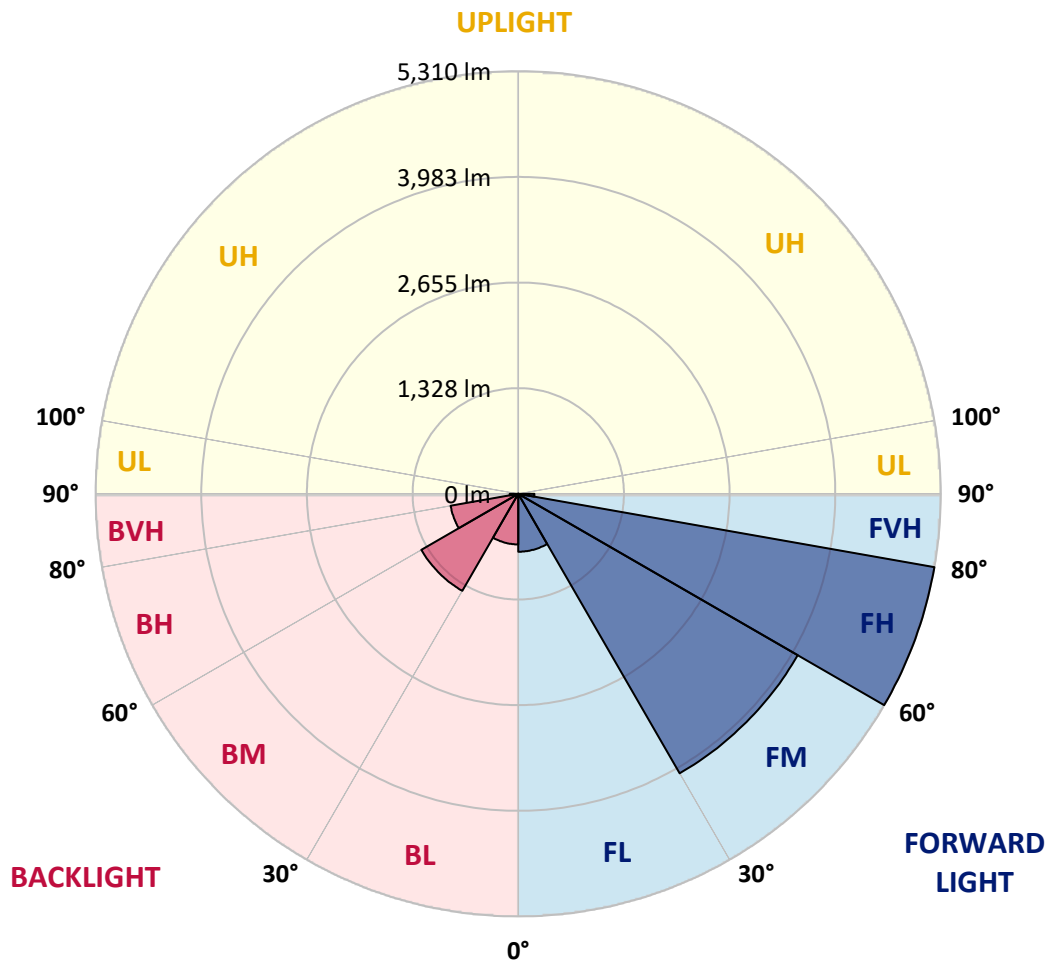
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	727.9	5.5			
FM (30°-60°)	4055.4	30.5			
FH (60°-80°)	5310.2	39.9			G3/7500
FVH (80°-90°)	203.1	1.5			G2/225
BL (0°-30°)	636.1	4.8	B2/1000		
BM (30°-60°)	1407.0	10.6	B2/2500		
BH (60°-80°)	862.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	107.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2
2.5°	1422.4	1417.4	1416.7	1406.0	1400.3	1389.6	1385.4	1375.3	1363.3	1351.1	1339.7
5°	1534.2	1534.2	1529.2	1514.2	1490.8	1466.6	1455.8	1436.6	1402.4	1374.6	1351.1
7.5°	1648.8	1650.3	1640.3	1618.2	1584.8	1545.6	1535.6	1507.1	1458.7	1418.1	1383.2
10°	1747.9	1747.9	1734.3	1704.4	1662.4	1619.6	1609.7	1577.7	1523.5	1472.9	1427.3
12.5°	1823.4	1823.4	1805.6	1766.4	1720.8	1682.4	1670.9	1640.3	1589.7	1533.5	1475.8
15°	1872.5	1868.9	1849.0	1804.8	1760.7	1727.2	1719.4	1693.7	1647.4	1590.4	1525.7
17.5°	1874.7	1873.2	1854.0	1817.0	1778.5	1755.7	1750.7	1733.6	1697.3	1643.2	1574.8
20°	1833.3	1836.2	1823.4	1797.0	1778.5	1768.5	1766.4	1760.7	1735.0	1684.5	1616.1
22.5°	1789.2	1794.2	1782.0	1767.8	1766.4	1776.4	1777.8	1779.2	1762.8	1713.7	1651.0
25°	1778.5	1782.0	1770.0	1757.1	1765.0	1791.3	1797.0	1802.7	1789.9	1748.6	1692.3
27.5°	1832.6	1829.8	1806.3	1778.5	1783.5	1819.1	1826.9	1833.3	1826.9	1791.3	1743.6
30°	1985.8	1976.5	1929.5	1848.3	1822.7	1847.6	1855.4	1873.2	1873.2	1846.9	1799.2
32.5°	2242.2	2224.3	2138.2	1978.6	1889.6	1874.7	1882.5	1911.7	1926.6	1906.0	1854.0
35°	2553.4	2534.9	2411.7	2197.3	2012.1	1928.8	1926.6	1959.4	1999.3	1953.0	1885.3
37.5°	2866.1	2846.9	2698.7	2458.0	2190.9	2042.8	2029.9	2041.3	2058.4	1973.6	1928.8
40°	3178.7	3156.0	3026.4	2749.3	2409.5	2193.7	2160.3	2109.0	2101.9	2041.3	2012.9
42.5°	3488.6	3468.0	3402.4	3076.3	2671.7	2341.2	2289.9	2201.6	2228.7	2192.3	2167.4
45°	3801.3	3802.7	3733.0	3443.0	2987.9	2613.3	2544.2	2406.0	2470.1	2456.6	2470.8
47.5°	4078.3	4074.8	4049.8	3799.1	3380.4	2963.7	2874.6	2714.4	2824.0	2873.9	2982.9
50°	4346.9	4344.7	4346.2	4203.0	3836.2	3380.4	3282.0	3114.0	3361.1	3534.2	3729.4
52.5°	4731.5	4743.6	4657.4	4619.7	4390.4	3872.5	3764.3	3590.4	3995.7	4268.5	4649.6
55°	5117.5	5107.6	5039.9	5079.1	4970.1	4455.1	4341.9	4203.7	4702.3	5000.7	5573.4
57.5°	5344.8	5348.3	5417.4	5609.0	5685.9	5181.7	5079.1	4972.2	5496.4	5708.0	6395.3
60°	5549.1	5565.6	5764.3	6126.1	6334.8	6074.1	5982.9	5878.9	6225.1	6309.1	7109.0
62.5°	5613.2	5663.8	6010.7	6552.0	6967.3	7081.2	6968.0	6738.7	6918.8	6886.1	7592.6
65°	5293.5	5362.5	5984.3	6711.6	7532.1	8037.0	7965.1	7539.2	7510.0	7312.7	7671.7
67.5°	4451.6	4520.7	5319.1	6376.8	7765.7	8864.7	8792.8	8123.2	7869.0	7352.6	7073.4
70°	3257.1	3300.6	4064.1	5369.0	7296.3	9142.5	9167.4	8408.2	7740.7	6810.5	5807.7
72.5°	1876.8	1972.9	2507.9	3777.1	5960.8	8440.2	8613.2	7815.5	6930.3	5681.6	4060.6
75°	807.0	809.2	1159.5	2083.3	4037.1	6784.2	6951.6	6478.6	5442.3	3928.8	2168.1
77.5°	383.9	391.0	510.0	930.2	2222.2	4687.4	5138.9	4576.9	3480.7	1887.5	819.1
80°	249.3	254.2	311.9	461.6	1089.8	2717.9	3032.8	2640.4	1535.6	674.5	353.3
82.5°	151.0	152.5	208.7	282.0	599.7	1230.8	1450.8	1146.0	655.3	403.9	208.0
85°	91.8	92.6	126.8	174.5	363.9	425.2	436.6	433.1	384.6	264.3	111.1
87.5°	44.2	45.6	65.5	82.6	143.1	131.8	124.7	144.6	181.7	142.4	47.7
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°	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2	1336.2
2.5°	1334.8	1332.6	1327.7	1325.5	1324.1	1324.8	1324.1	1324.1	1324.8	1324.8	1324.8
5°	1341.2	1337.6	1329.8	1329.8	1334.1	1344.0	1353.3	1360.4	1368.2	1367.5	1367.5
7.5°	1368.9	1362.6	1353.3	1356.2	1366.8	1382.5	1398.8	1414.6	1430.2	1431.6	1430.9
10°	1409.6	1403.1	1393.2	1396.7	1413.8	1437.4	1457.9	1480.8	1497.9	1502.9	1501.4
12.5°	1455.8	1443.0	1434.5	1444.5	1471.5	1502.9	1522.8	1539.9	1552.0	1559.1	1556.3
15°	1502.9	1490.8	1480.8	1501.4	1534.2	1563.4	1573.4	1576.2	1578.4	1585.5	1584.1
17.5°	1548.5	1532.0	1528.5	1555.6	1586.9	1599.7	1594.0	1581.9	1572.7	1578.4	1577.7
20°	1589.0	1576.2	1574.8	1601.9	1614.0	1601.9	1577.7	1556.3	1539.9	1541.3	1540.6
22.5°	1627.5	1617.5	1618.9	1630.4	1611.1	1569.8	1529.9	1500.7	1482.9	1486.4	1488.6
25°	1670.2	1660.3	1663.8	1645.3	1581.9	1509.9	1452.3	1427.3	1420.2	1427.3	1432.3
27.5°	1725.8	1719.4	1717.3	1646.0	1529.9	1421.7	1356.2	1346.8	1353.3	1368.9	1376.7
30°	1785.6	1785.6	1774.2	1633.9	1458.7	1315.5	1258.5	1260.0	1282.1	1304.2	1312.0
32.5°	1843.3	1855.4	1819.8	1601.2	1366.8	1212.2	1168.8	1170.2	1189.5	1216.5	1223.7
35°	1891.0	1925.9	1859.0	1541.3	1258.5	1125.3	1092.6	1073.3	1074.0	1094.7	1100.4
37.5°	1956.6	2021.4	1881.8	1452.3	1143.2	1051.3	1014.2	980.8	958.7	950.2	950.2
40°	2070.5	2165.9	1887.5	1320.5	1034.2	980.8	928.1	888.2	845.4	807.0	799.8
42.5°	2263.6	2383.9	1876.1	1168.8	935.9	903.1	851.8	802.7	743.6	689.4	685.2
45°	2605.4	2667.4	1845.5	1011.4	848.3	828.3	778.5	725.1	662.4	614.0	610.4
47.5°	3153.1	3065.5	1804.8	871.8	768.5	762.8	724.4	662.4	599.7	566.3	562.7
50°	3953.0	3692.3	1799.2	770.6	704.4	707.3	676.0	619.0	564.1	536.4	532.0
52.5°	4916.0	4449.5	1836.9	699.5	648.2	658.8	643.2	590.5	542.0	518.5	514.3
55°	5850.4	5130.4	1859.7	643.9	595.5	615.4	617.6	573.4	529.2	505.7	502.8
57.5°	6609.0	5643.2	1758.5	593.3	549.8	580.5	596.2	563.4	522.8	505.0	502.1
60°	7136.7	5885.3	1470.8	548.4	516.4	552.7	588.3	564.1	538.5	540.6	542.0
62.5°	7304.8	5777.8	1103.2	515.0	493.6	543.5	601.1	593.3	567.0	583.3	586.2
65°	7026.4	5333.3	799.8	488.6	473.6	549.8	639.6	614.7	556.9	569.1	569.1
67.5°	6094.0	4594.7	622.5	464.4	450.9	562.0	678.1	612.5	533.5	547.7	534.9
70°	4834.1	3554.1	518.5	437.3	426.7	544.2	681.6	590.5	505.7	508.6	484.4
72.5°	3208.0	2336.9	445.8	411.7	389.6	489.3	652.4	562.0	478.6	462.3	438.0
75°	1572.0	1165.3	388.9	379.6	341.2	426.0	612.5	534.9	449.4	423.8	410.3
77.5°	608.9	495.7	331.9	339.0	297.0	375.4	559.8	496.4	411.0	376.1	365.3
80°	295.6	281.3	272.1	282.7	244.3	319.8	511.4	463.0	375.4	336.9	321.3
82.5°	183.8	173.8	208.7	220.1	188.0	292.1	485.1	434.5	330.5	279.2	266.4
85°	93.3	99.8	139.6	150.3	134.6	232.2	399.6	326.2	238.6	198.0	199.4
87.5°	35.6	47.7	73.4	79.1	72.0	122.5	220.1	190.2	153.2	104.0	96.2
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)