

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: P651205

Luminaire Tested: **GALN-SA1D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651205
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-SA1D-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA 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: 5746.5 lumens
Efficiency: N/A
Efficacy: 88.4 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

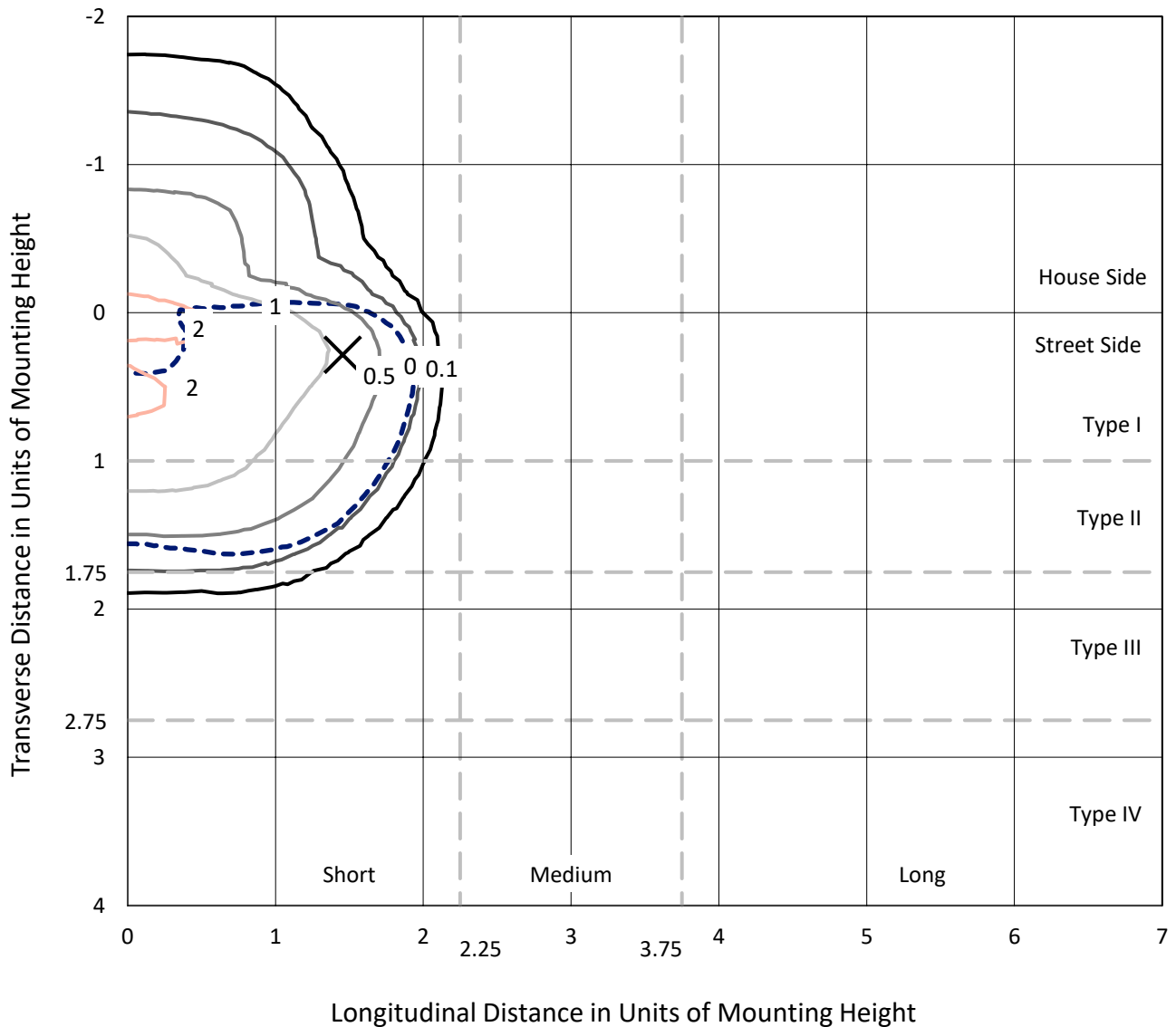
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

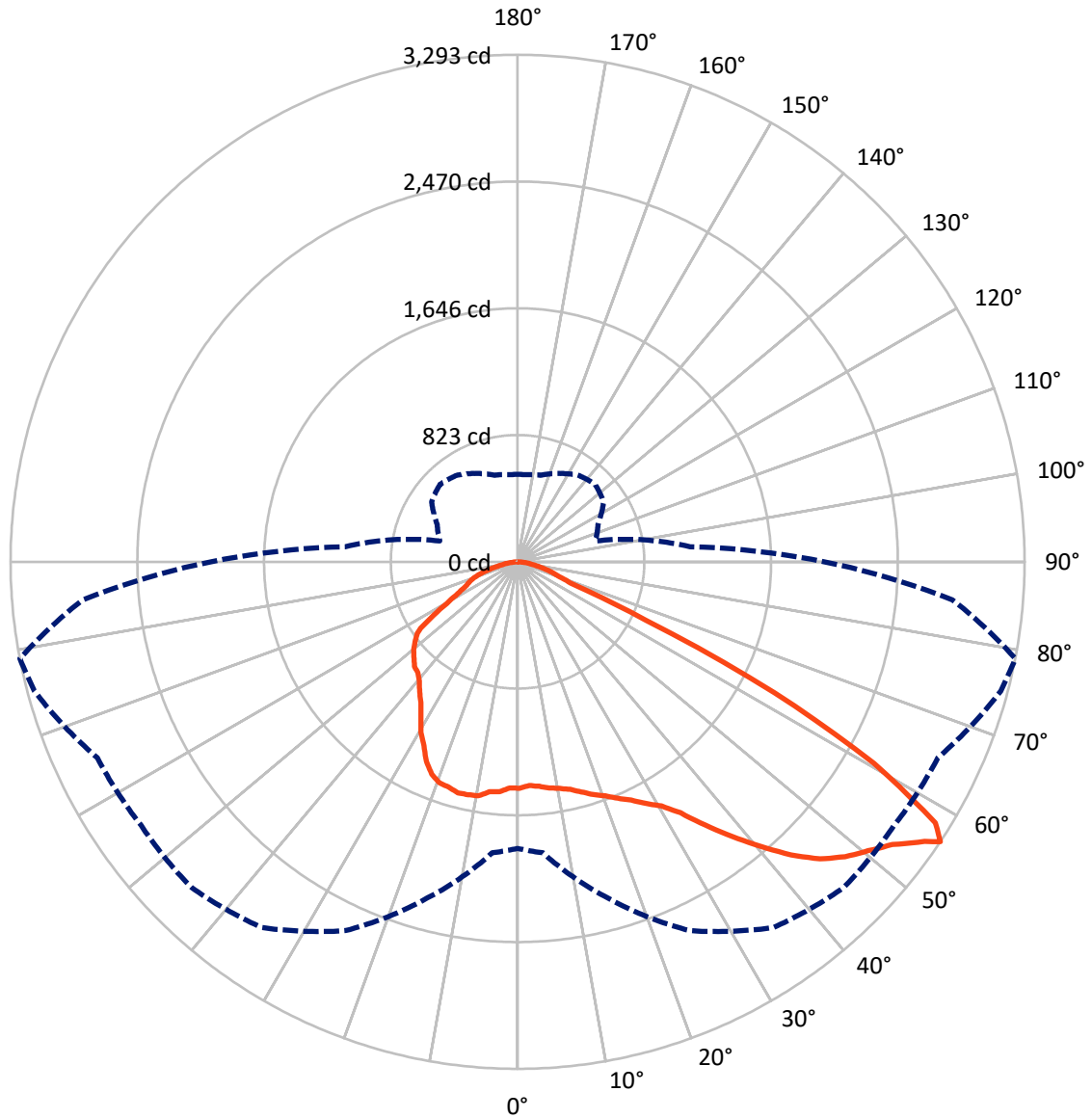
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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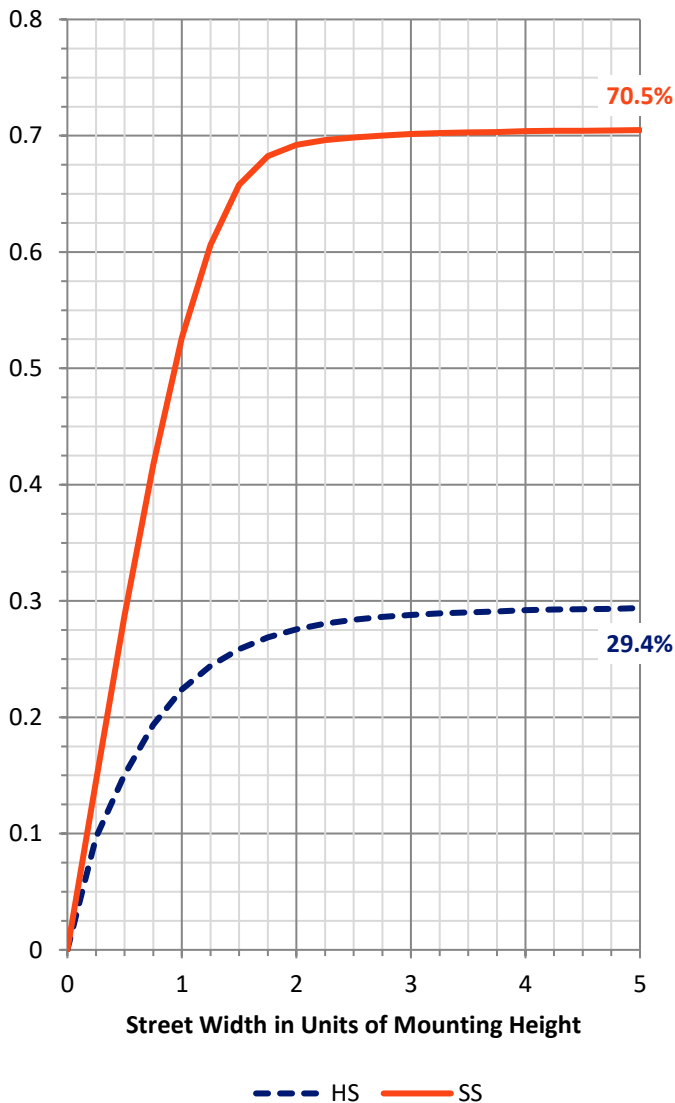
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.1	0.0	1697.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4049.5	0.0	4049.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	5746.5	0.0	5746.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	2.3
10°-20°	365.8	6.4
20°-30°	625.9	10.9
30°-40°	959.3	16.7
40°-50°	1296.4	22.6
50°-60°	1489.0	25.9
60°-70°	678.7	11.8
70°-80°	167.3	2.9
80°-90°	30.4	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°	5746.5	100.0
0°-180°	5746.5	100.0

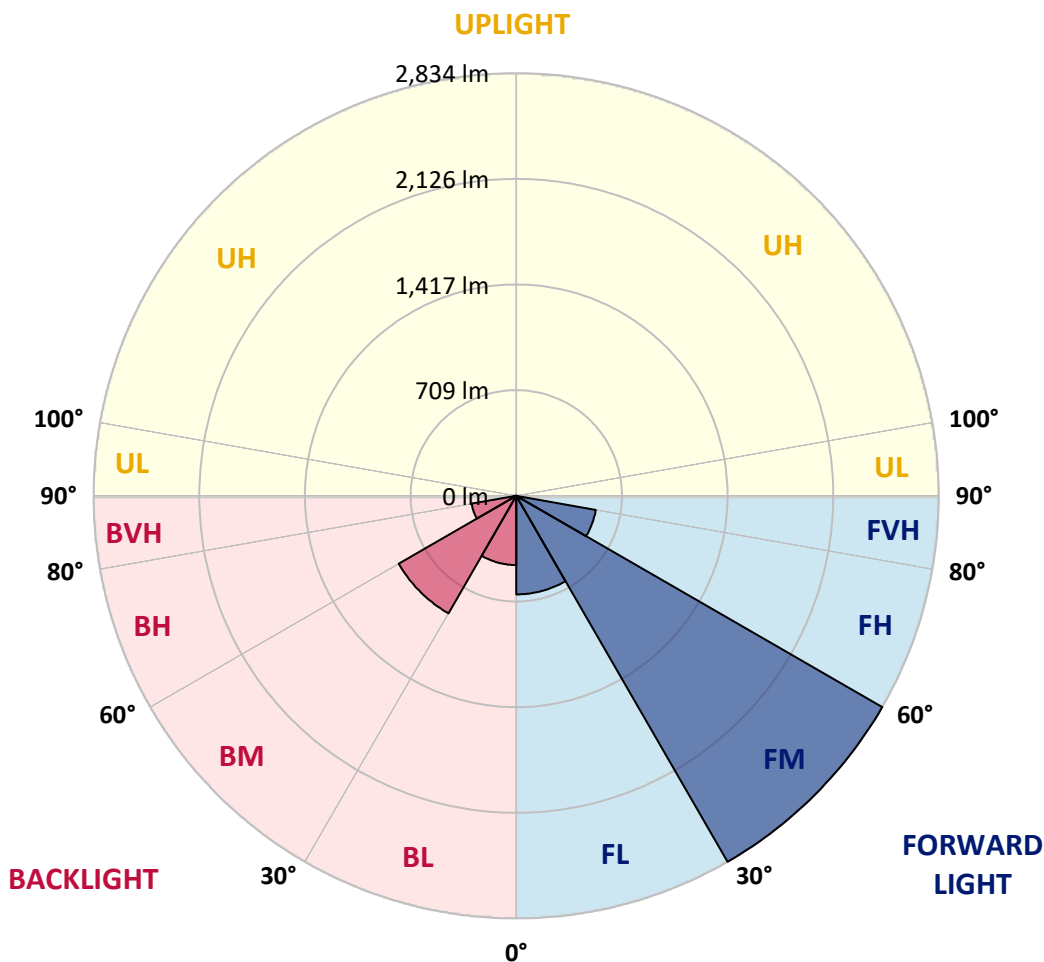


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.2	11.5			
FM (30°-60°)	2834.4	49.3			
FH (60°-80°)	541.8	9.4			G0/660
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	464.2	8.1	B1/500		
BM (30°-60°)	910.3	15.8	B1/1000		
BH (60°-80°)	304.3	5.3	B1/500		G1/500
BVH (80°-90°)	18.3	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°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1398.8	1395.1	1403.7	1410.2	1418.1	1428.1	1433.1	1435.9	1461.0	1454.6	1473.9
5°	1368.6	1359.4	1365.8	1370.8	1384.5	1396.6	1410.2	1431.6	1454.6	1464.6	1488.2
7.5°	1342.2	1337.2	1335.8	1339.3	1358.0	1373.7	1397.3	1428.8	1466.0	1482.5	1496.1
10°	1298.5	1291.4	1302.1	1325.8	1330.7	1363.7	1390.8	1435.9	1468.1	1496.8	1536.9
12.5°	1279.2	1272.0	1274.2	1287.7	1322.9	1354.3	1386.6	1437.4	1505.4	1516.8	1570.6
15°	1309.9	1302.8	1305.0	1301.4	1335.0	1351.5	1402.3	1466.0	1531.1	1550.5	1607.7
17.5°	1380.1	1380.8	1371.5	1363.7	1355.8	1390.8	1425.9	1483.2	1541.2	1589.8	1632.8
20°	1514.0	1490.3	1471.8	1427.3	1415.2	1430.2	1474.6	1529.7	1582.0	1622.0	1670.7
22.5°	1617.1	1619.2	1592.7	1519.7	1493.2	1499.7	1537.6	1582.7	1640.0	1668.6	1724.5
25°	1766.7	1751.6	1723.0	1665.0	1605.6	1610.6	1638.5	1679.3	1695.1	1715.1	1775.9
27.5°	1903.4	1907.7	1851.1	1796.7	1723.0	1708.7	1758.8	1765.9	1739.4	1777.4	1798.1
30°	2042.3	2038.7	2001.5	1937.7	1865.4	1868.3	1890.5	1855.4	1818.9	1839.7	1854.0
32.5°	2186.2	2145.3	2143.9	2086.6	2031.5	2005.0	1977.9	1995.0	1938.5	1942.8	1929.2
35°	2301.4	2307.1	2274.2	2233.4	2206.2	2159.7	2085.2	2116.0	2105.3	2100.2	2041.5
37.5°	2385.2	2363.0	2379.4	2365.8	2340.1	2282.1	2204.8	2234.1	2239.1	2263.5	2195.4
40°	2453.9	2444.5	2488.3	2495.4	2477.5	2352.2	2213.3	2300.6	2375.8	2428.8	2347.9
42.5°	2486.8	2506.9	2552.7	2607.8	2567.7	2433.9	2257.7	2351.5	2519.0	2602.7	2492.6
45°	2531.2	2505.4	2573.4	2674.4	2675.1	2502.6	2300.6	2420.2	2630.6	2752.3	2591.3
47.5°	2486.1	2498.9	2569.1	2697.3	2730.1	2574.8	2416.6	2517.5	2753.8	2861.9	2683.0
50°	2385.2	2410.9	2539.1	2672.2	2771.7	2651.4	2549.8	2622.8	2867.6	2950.0	2697.9
52.5°	2280.0	2294.2	2494.7	2691.5	2790.3	2750.2	2728.0	2768.2	3006.5	3049.5	2716.6
55°	1993.6	2061.6	2347.9	2683.0	2881.2	2928.4	2911.3	2970.0	3164.0	3206.9	2818.2
56°	1861.1	1897.0	2259.9	2642.8	2899.1	2993.6	2985.0	3011.5	3247.7	3292.9	2834.0
57.5°	1616.3	1619.2	1927.0	2465.3	2831.8	3013.0	3004.3	3025.1	3231.3	3200.5	2695.8
60°	1011.5	1055.9	1311.4	1896.2	2408.0	2795.3	2844.0	2677.2	2724.4	2659.3	2097.4
62.5°	524.0	517.6	687.2	1108.9	1598.5	2001.5	2046.6	2038.7	1965.7	1870.5	1370.1
65°	261.3	262.7	359.4	549.0	818.9	1048.0	1174.0	1187.6	993.6	914.1	650.0
67.5°	189.7	196.9	258.4	335.7	385.9	431.7	529.0	519.0	393.0	373.7	346.5
70°	147.4	153.9	209.7	256.3	232.6	232.6	253.4	262.0	279.9	287.8	297.0
72.5°	107.4	112.4	160.4	176.8	152.5	163.9	189.7	209.7	228.3	231.2	242.0
75°	73.8	78.0	105.2	97.4	91.6	113.1	138.8	157.5	171.1	178.2	184.7
77.5°	47.9	49.4	60.1	50.8	58.7	73.0	90.2	106.0	119.5	125.3	126.7
80°	21.4	23.6	25.7	32.2	40.8	52.2	64.4	77.3	85.9	88.1	92.3
82.5°	12.2	12.2	15.7	22.9	30.0	37.9	46.5	55.8	65.9	68.0	67.3
85°	6.5	6.5	9.3	13.6	18.6	22.2	21.4	22.2	23.6	27.2	26.5
87.5°	2.2	2.2	2.9	2.9	3.6	4.3	3.6	5.0	6.5	6.5	6.5
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°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1468.1	1474.6	1466.0	1484.6	1484.6	1481.1	1463.2	1468.9	1473.2	1473.2	1476.8
5°	1496.1	1494.0	1499.7	1477.5	1463.8	1458.9	1429.5	1415.2	1403.0	1402.3	1391.6
7.5°	1511.9	1506.1	1504.0	1487.5	1427.3	1390.8	1327.9	1291.4	1283.5	1255.5	1266.3
10°	1536.9	1547.6	1536.9	1447.4	1363.7	1279.9	1218.4	1161.8	1139.6	1121.7	1111.0
12.5°	1588.4	1583.4	1521.1	1400.2	1282.8	1183.3	1091.6	1032.2	1010.0	994.3	992.9
15°	1632.1	1607.1	1511.9	1325.8	1156.8	1050.8	975.6	933.4	923.4	924.8	931.3
17.5°	1647.1	1629.9	1463.2	1248.4	1063.0	938.5	903.4	896.9	906.3	916.9	919.8
20°	1670.7	1643.6	1443.1	1143.2	947.1	868.3	866.1	889.0	906.3	922.0	924.2
22.5°	1720.2	1651.4	1378.0	1043.7	867.6	847.6	868.3	887.6	914.1	927.0	915.5
25°	1734.5	1634.2	1286.3	924.2	817.5	834.7	856.8	883.3	902.0	909.1	914.1
27.5°	1746.6	1607.7	1162.5	844.7	801.7	833.9	856.8	879.0	889.0	895.5	901.2
30°	1781.0	1599.9	1055.1	791.7	791.7	819.6	849.0	854.7	868.3	876.2	886.2
32.5°	1798.1	1545.5	944.9	758.1	781.7	826.8	828.9	839.7	840.4	846.8	836.1
35°	1843.3	1506.8	842.5	733.7	786.0	819.6	830.4	823.9	788.9	771.7	775.2
37.5°	1876.2	1487.5	768.8	730.8	786.7	827.5	833.3	784.6	748.1	719.4	726.5
40°	1964.9	1439.5	713.0	725.9	793.1	836.1	820.3	767.3	701.5	672.1	667.2
42.5°	2032.9	1405.1	677.9	720.1	798.1	848.2	813.9	733.0	665.7	638.5	645.7
45°	2111.7	1397.3	659.3	721.6	806.8	854.7	806.0	706.5	635.0	624.2	622.1
47.5°	2139.6	1340.7	639.2	709.4	804.6	852.5	779.5	686.5	623.5	624.9	630.7
50°	2093.1	1282.8	624.2	684.3	790.3	833.3	738.1	660.0	617.0	635.0	645.0
52.5°	2033.7	1223.3	593.4	650.7	760.9	803.2	718.7	658.6	610.6	604.8	607.0
55°	2051.5	1174.7	550.4	604.8	713.7	747.3	697.2	645.0	594.8	573.4	580.5
56°	1993.6	1124.6	522.6	576.3	681.5	711.6	686.5	632.8	582.0	567.7	567.7
57.5°	1829.7	956.4	486.0	530.4	613.4	649.3	665.7	625.6	567.7	542.6	543.3
60°	1349.3	680.0	436.0	467.4	508.2	536.9	613.4	605.6	531.8	514.7	508.2
62.5°	831.8	496.8	400.1	412.3	433.1	456.7	535.5	548.3	493.9	475.3	471.0
65°	466.0	380.1	373.0	377.9	388.0	400.1	444.6	473.1	436.0	407.3	405.9
67.5°	340.8	340.0	345.7	350.0	354.3	354.3	365.1	376.5	371.6	348.6	346.5
70°	302.8	304.9	309.2	310.0	311.4	306.4	297.8	294.2	299.9	285.6	282.7
72.5°	249.9	257.0	262.0	262.7	254.8	248.4	236.9	224.8	220.5	217.7	216.9
75°	191.8	196.9	199.0	198.3	195.4	186.1	172.5	160.4	152.5	143.9	148.2
77.5°	129.6	136.7	140.3	140.3	136.0	121.7	115.2	106.0	98.1	88.7	90.2
80°	90.9	96.0	101.7	100.9	93.8	86.6	77.3	68.7	62.3	55.1	54.4
82.5°	68.0	70.9	73.8	72.3	67.3	60.1	53.7	45.8	38.7	33.6	33.6
85°	24.3	26.5	32.2	33.6	36.5	36.5	30.8	25.7	20.8	17.2	17.2
87.5°	7.1	7.1	7.9	7.9	7.1	7.9	6.5	7.1	7.9	5.0	5.0
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)