

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: P300303

Luminaire Tested: **GLNA-AF-02-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-T4FT-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11810.6 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

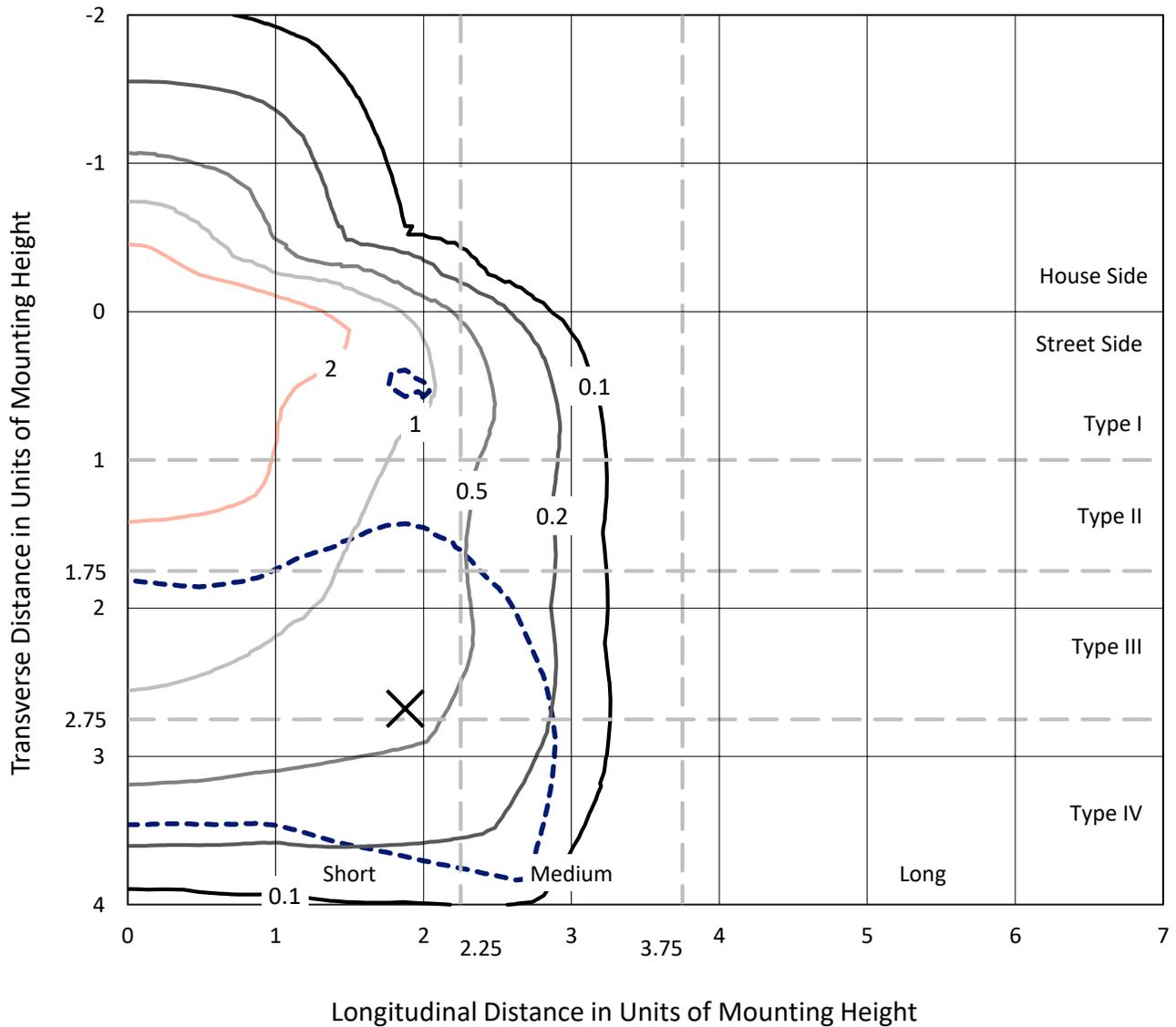
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

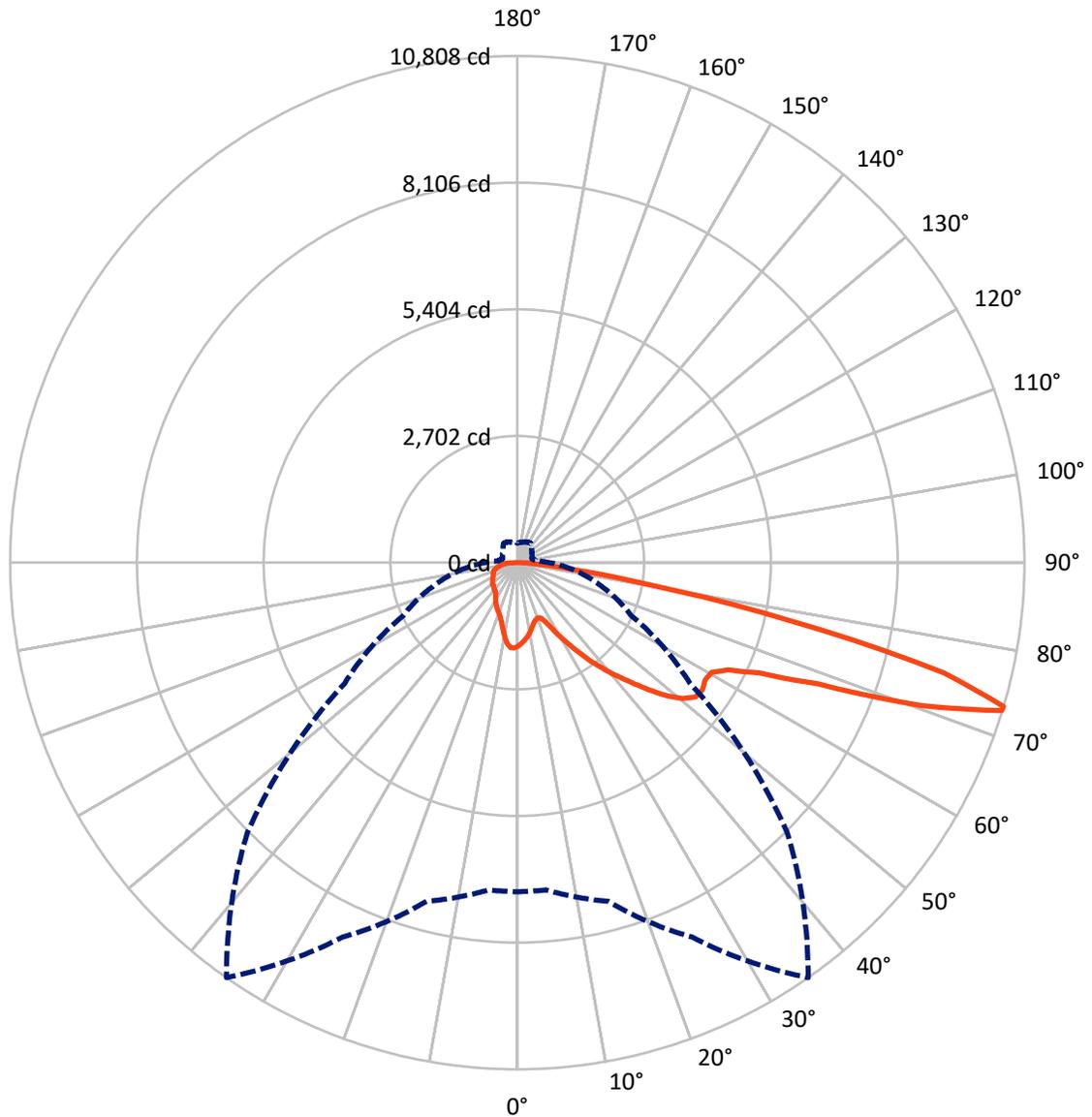
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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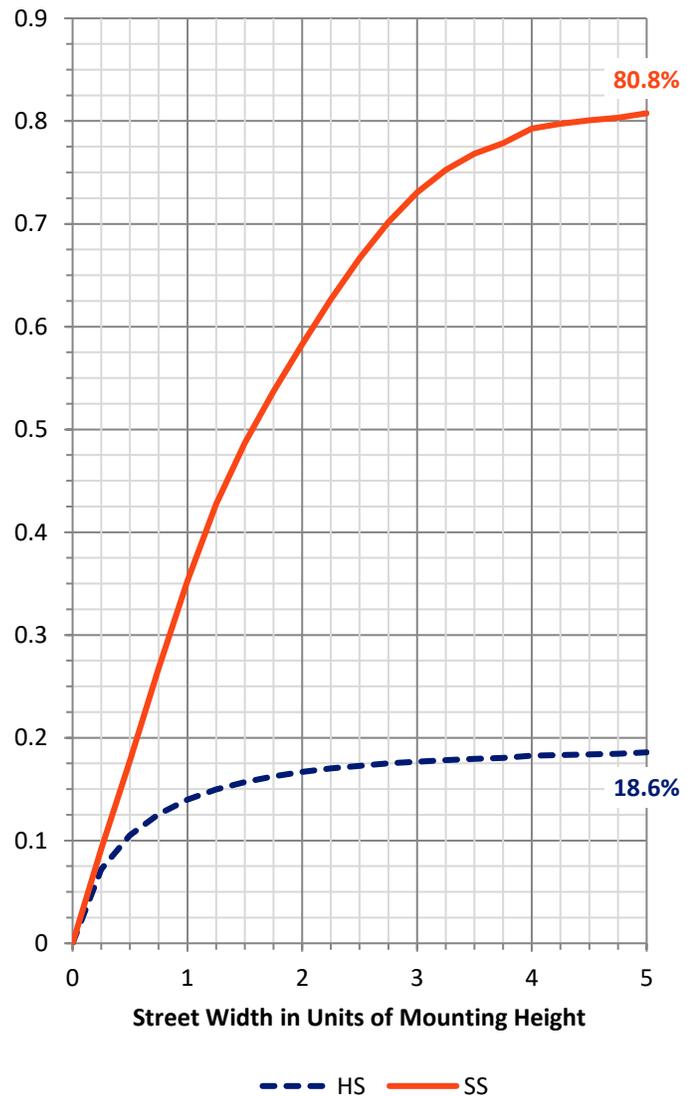
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2252.6	0.0	2252.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9558.0	0.0	9558.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	11810.6	0.0	11810.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.4
10°-20°	402.8	3.4
20°-30°	651.1	5.5
30°-40°	1091.9	9.2
40°-50°	1683.0	14.3
50°-60°	2258.0	19.1
60°-70°	3008.1	25.5
70°-80°	2294.3	19.4
80°-90°	260.0	2.2
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°	11810.6	100.0
0°-180°	11810.6	100.0



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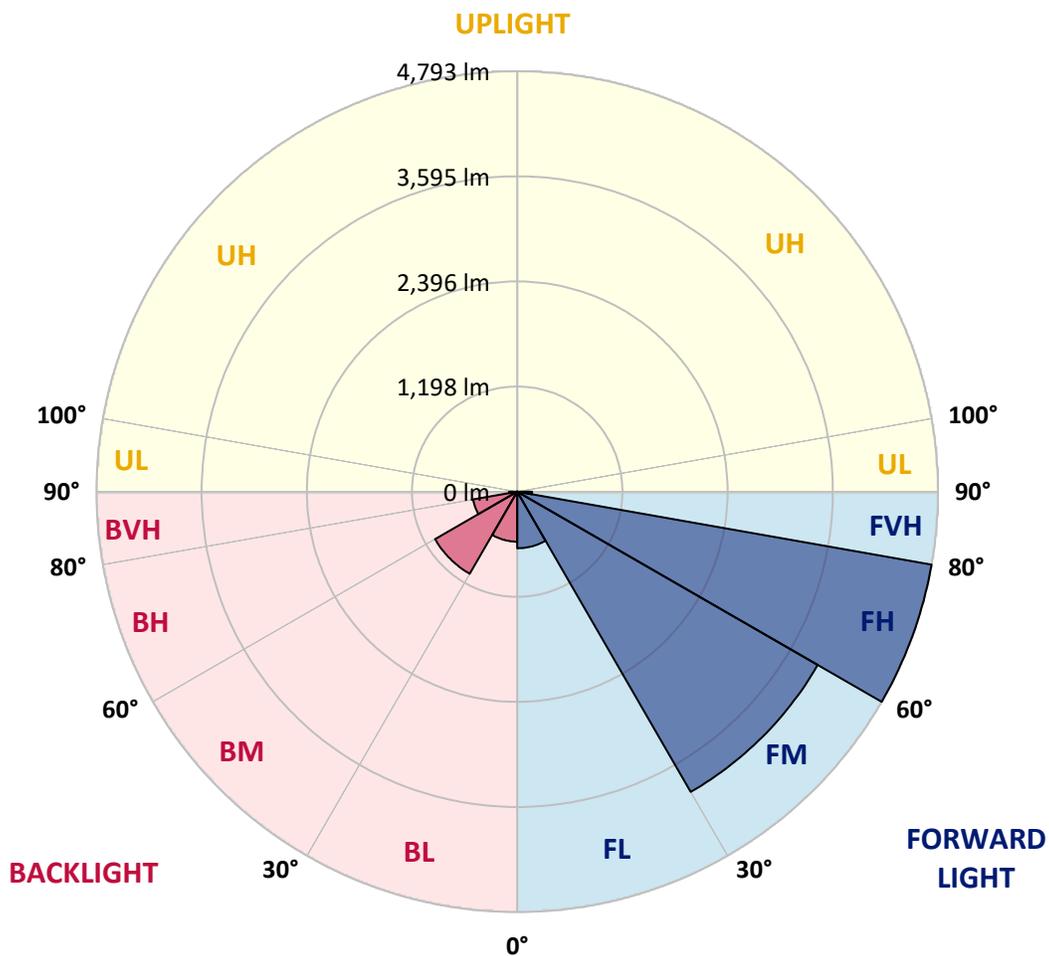
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.3	5.5			
FM	(30°-60°)	3951.9	33.5			
FH	(60°-80°)	4792.7	40.6			G2/5000
FVH	(80°-90°)	168.1	1.4			G2/225
BL	(0°-30°)	570.0	4.8	B2/1000		
BM	(30°-60°)	1081.0	9.2	B2/2500		
BH	(60°-80°)	509.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	92.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6
2.5°	1712.3	1715.7	1711.7	1716.8	1725.3	1734.4	1740.6	1749.7	1759.9	1774.1	1777.5
5°	1631.7	1636.8	1636.8	1645.9	1662.3	1677.1	1690.7	1705.5	1727.0	1751.4	1761.0
7.5°	1543.2	1546.1	1551.2	1564.8	1588.6	1609.6	1628.9	1652.7	1682.2	1714.5	1731.5
10°	1436.6	1440.6	1448.5	1467.8	1500.1	1529.1	1556.9	1589.8	1627.2	1667.5	1689.0
12.5°	1361.2	1360.1	1363.5	1377.6	1406.0	1441.2	1481.4	1523.4	1569.3	1616.4	1642.5
15°	1335.7	1329.4	1316.4	1313.0	1328.3	1363.5	1410.0	1461.6	1516.6	1573.3	1605.6
17.5°	1351.5	1340.8	1305.0	1278.9	1276.7	1303.3	1352.7	1410.5	1474.1	1543.2	1583.5
20°	1451.4	1425.8	1337.9	1277.2	1256.3	1269.3	1312.4	1373.7	1448.5	1540.4	1592.0
22.5°	1690.1	1652.7	1466.1	1353.2	1282.4	1266.5	1298.8	1364.0	1451.4	1575.6	1641.4
25°	2037.8	1984.5	1686.2	1542.7	1396.4	1311.8	1319.2	1386.1	1491.6	1657.2	1736.6
27.5°	2312.3	2277.7	1973.7	1809.8	1603.9	1434.4	1385.6	1441.7	1573.9	1791.1	1872.2
30°	2475.7	2454.7	2281.1	2112.7	1868.8	1629.5	1512.6	1546.1	1702.6	1976.6	2043.5
32.5°	2665.1	2652.6	2567.5	2412.7	2154.6	1885.8	1714.0	1702.1	1875.0	2199.5	2230.1
35°	2861.3	2857.4	2807.4	2696.3	2461.5	2223.8	1981.1	1900.6	2062.8	2430.9	2411.6
37.5°	3044.0	3037.1	3008.2	2943.6	2782.5	2586.8	2253.3	2104.2	2265.2	2652.0	2566.4
40°	3380.3	3327.0	3227.7	3178.9	3106.9	2892.5	2469.4	2294.2	2475.1	2863.0	2700.3
42.5°	3790.3	3703.6	3518.7	3451.7	3441.5	3133.6	2616.9	2478.5	2686.6	3072.3	2831.8
45°	4113.1	4031.4	3872.0	3787.5	3824.9	3351.9	2764.9	2675.3	2904.4	3291.8	2967.4
47.5°	4457.3	4329.1	4118.2	4143.7	4225.4	3558.4	2915.8	2886.9	3143.2	3537.4	3135.8
50°	4469.8	4371.7	4279.2	4431.8	4558.8	3748.4	3104.6	3108.6	3435.3	3846.5	3359.9
52.5°	4210.6	4189.6	4336.5	4576.4	4759.6	3898.7	3319.6	3337.7	3809.1	4201.5	3606.0
55°	4119.9	4096.0	4265.6	4525.9	4786.8	4022.9	3552.7	3585.6	4261.1	4575.9	3845.9
57.5°	4341.1	4288.3	4299.6	4502.1	4720.5	4159.0	3806.8	3873.1	4752.2	4903.1	4000.2
60°	4959.3	4846.4	4632.0	4626.9	4756.2	4363.2	4100.6	4181.7	5262.7	5059.6	3940.1
62.5°	5826.4	5713.6	5312.0	5050.6	5031.3	4700.1	4461.3	4482.8	5557.6	4847.5	3573.1
65°	6765.1	6664.1	6215.5	5846.3	5668.2	5258.2	4880.4	4617.3	5461.2	4263.9	2931.1
67.5°	7904.5	7796.2	7410.5	7069.7	6898.4	6158.8	5174.8	4488.5	4849.2	3303.1	2107.0
70°	8701.4	8590.8	8438.8	8715.0	9134.1	7458.2	5212.8	3965.0	3621.9	2195.5	1268.2
72.5°	7661.8	7610.2	7887.5	9050.8	10796.5	8246.5	4712.0	2886.9	2103.6	1165.5	733.9
73°	7019.8	7008.4	7481.4	8815.4	10808.4	8125.2	4492.5	2683.2	1804.1	1031.1	671.0
75°	3169.9	3261.2	4297.9	6733.3	9390.5	6695.3	3161.9	1539.3	1019.2	712.4	506.5
77.5°	761.7	793.5	1344.7	3197.7	5930.2	3990.0	1432.6	761.1	651.7	503.1	369.8
80°	324.4	335.2	517.8	1181.4	2792.1	1606.8	660.2	509.9	450.9	351.1	259.2
82.5°	180.4	191.7	293.8	536.0	1126.9	547.9	402.7	355.0	296.6	211.6	168.4
85°	102.1	108.3	171.8	299.5	477.5	220.1	241.0	235.9	167.3	108.9	82.8
87.5°	48.2	52.2	82.8	139.0	187.2	86.2	122.5	135.0	104.9	66.4	43.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6	1782.6
2.5°	1781.5	1791.7	1803.6	1809.8	1815.5	1822.3	1829.1	1829.1	1830.2	1830.8
5°	1769.0	1790.0	1808.7	1816.6	1818.3	1818.3	1816.6	1807.5	1799.6	1803.0
7.5°	1742.9	1773.5	1789.4	1786.6	1765.0	1740.1	1719.1	1693.5	1680.5	1678.2
10°	1705.5	1740.6	1743.5	1715.1	1661.8	1608.5	1564.2	1521.1	1500.7	1495.6
12.5°	1664.1	1696.4	1678.2	1619.8	1534.2	1456.5	1400.3	1356.6	1337.4	1332.3
15°	1630.6	1652.7	1606.8	1514.9	1407.1	1324.9	1278.4	1246.1	1232.4	1228.5
17.5°	1613.0	1617.5	1533.6	1409.4	1294.8	1226.2	1197.3	1182.0	1176.9	1174.0
20°	1621.5	1589.8	1463.8	1311.3	1202.9	1154.7	1147.9	1144.0	1142.8	1141.1
22.5°	1664.1	1581.2	1399.8	1218.3	1122.4	1101.4	1107.1	1106.5	1105.4	1104.3
25°	1740.1	1588.6	1337.4	1129.8	1054.9	1050.4	1060.6	1060.6	1056.1	1056.1
27.5°	1840.4	1603.9	1267.6	1045.8	993.7	994.2	1002.2	999.9	994.8	991.4
30°	1962.9	1613.6	1185.9	970.4	936.4	934.1	936.4	926.7	911.4	910.3
32.5°	2088.3	1601.7	1091.2	903.5	875.7	870.6	868.9	855.3	837.7	832.6
35°	2201.7	1558.0	994.8	850.2	817.8	806.5	814.4	809.9	794.0	790.1
37.5°	2284.5	1476.9	908.0	803.1	776.4	773.6	778.7	780.4	761.7	757.7
40°	2340.1	1366.9	833.7	763.4	768.5	757.7	740.7	728.8	723.1	721.4
42.5°	2384.9	1252.3	771.3	744.7	770.2	739.0	702.1	682.9	693.1	697.6
45°	2436.5	1140.6	719.2	721.4	761.7	717.5	675.5	656.8	660.7	661.9
47.5°	2507.4	1004.4	663.0	684.0	733.3	702.7	659.0	632.4	613.7	605.2
50°	2605.5	843.4	604.6	642.0	705.5	691.9	633.5	605.2	570.6	562.6
52.5°	2673.6	693.1	556.4	606.9	680.6	670.4	613.1	576.2	539.9	533.1
55°	2636.7	575.7	514.4	567.7	647.7	643.7	596.1	546.7	518.4	512.7
57.5°	2452.4	501.4	482.1	530.9	607.4	621.0	573.4	521.8	501.4	497.4
60°	2100.8	454.9	461.7	505.9	574.5	598.4	550.7	508.2	494.6	491.7
62.5°	1630.0	423.7	446.4	487.8	549.0	582.5	538.2	506.5	501.4	498.0
65°	1167.8	398.7	429.9	469.6	525.8	567.7	533.7	504.2	505.3	502.5
67.5°	793.5	376.6	410.1	449.2	503.1	554.7	527.5	496.3	510.4	507.0
70°	555.3	355.0	386.8	423.1	474.7	536.5	516.1	484.4	483.2	469.6
72.5°	433.3	326.7	355.0	386.8	438.4	511.0	493.4	457.7	439.0	424.8
73°	413.5	319.9	347.1	378.9	430.5	504.8	487.2	450.3	429.3	416.3
75°	342.0	290.4	315.3	343.7	396.4	475.3	456.6	416.9	390.2	382.3
77.5°	268.8	248.4	272.2	297.8	349.4	432.2	411.2	373.2	358.4	351.6
80°	199.1	205.9	226.9	249.6	302.9	386.2	367.5	329.5	395.3	378.9
82.5°	140.1	156.0	175.3	195.7	254.1	341.4	318.7	279.6	289.3	240.5
85°	82.8	102.1	120.2	137.8	183.2	283.0	263.2	222.9	182.6	174.1
87.5°	48.2	56.7	61.8	80.0	125.9	213.3	185.5	165.0	94.7	64.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)