

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: P526998

Luminaire Tested: **GALN-SA2A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526998
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-SA2A-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6713 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

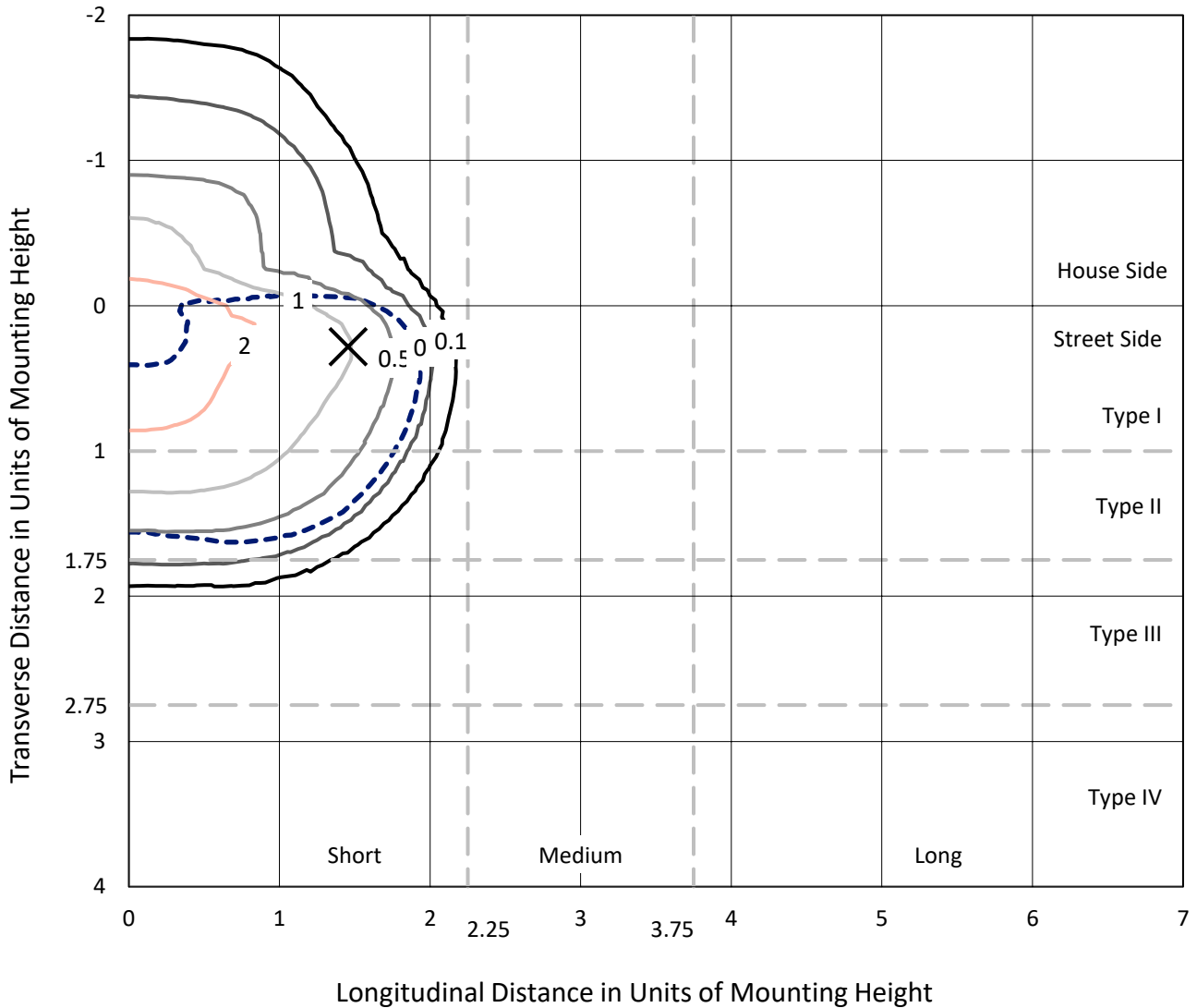
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

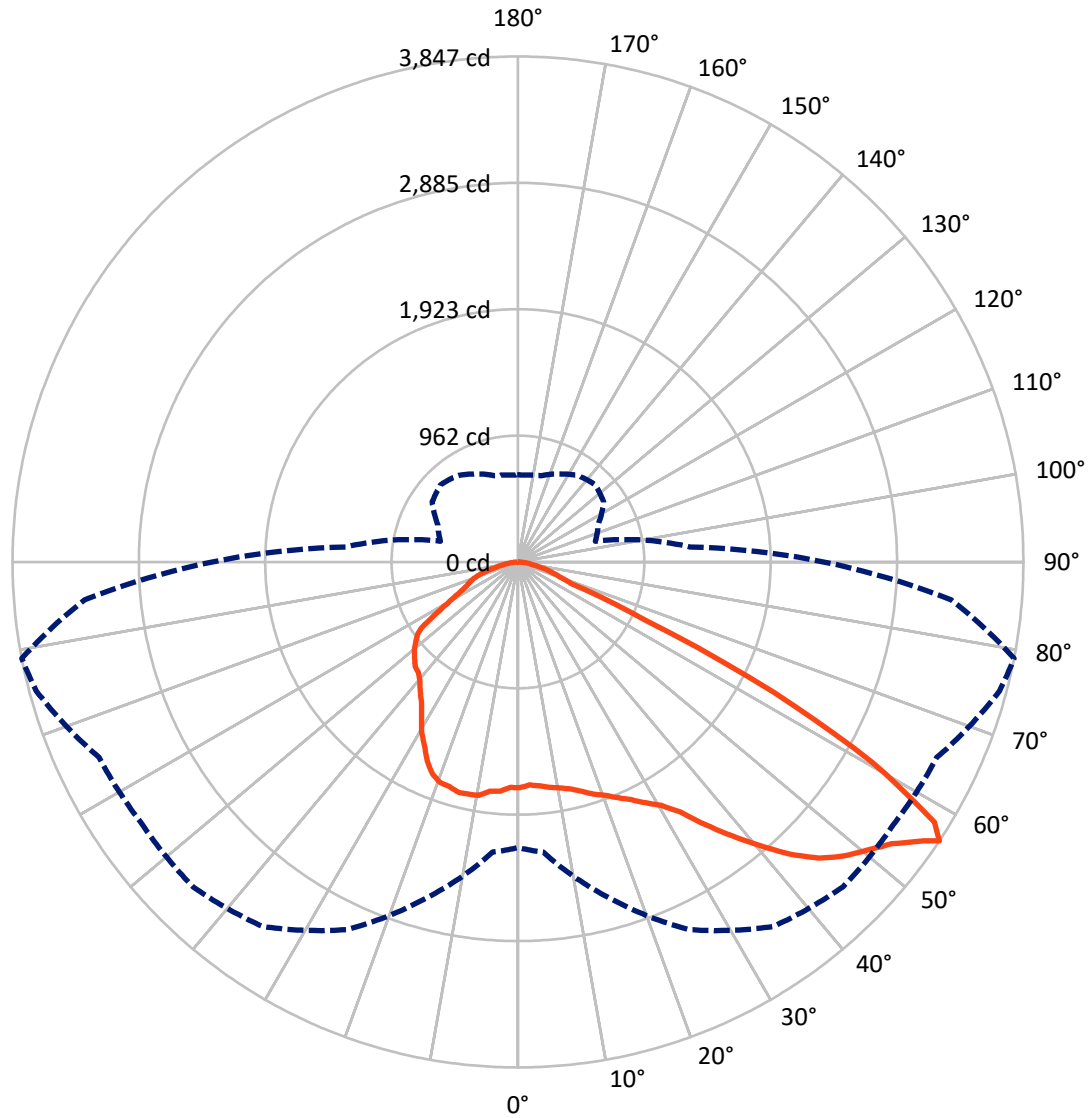
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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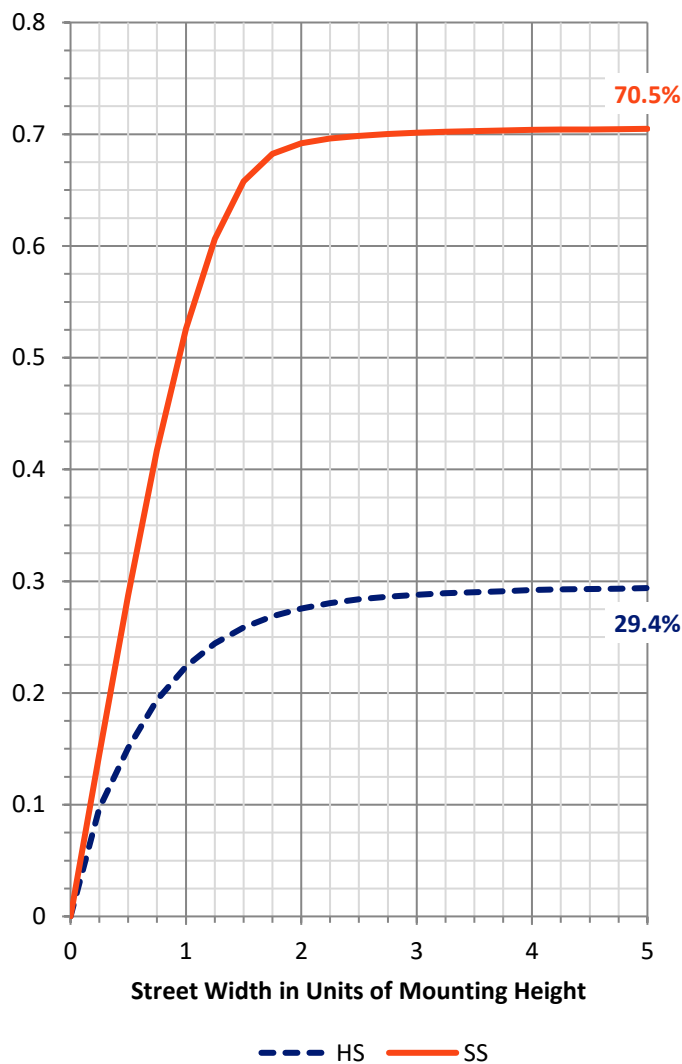
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1982.5	0.0	1982.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4730.5	0.0	4730.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	6713.0	0.0	6713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	2.3
10°-20°	427.4	6.4
20°-30°	731.2	10.9
30°-40°	1120.6	16.7
40°-50°	1514.4	22.6
50°-60°	1739.4	25.9
60°-70°	792.9	11.8
70°-80°	195.5	2.9
80°-90°	35.5	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°	6713.0	100.0
0°-180°	6713.0	100.0

Coefficient of Utilization

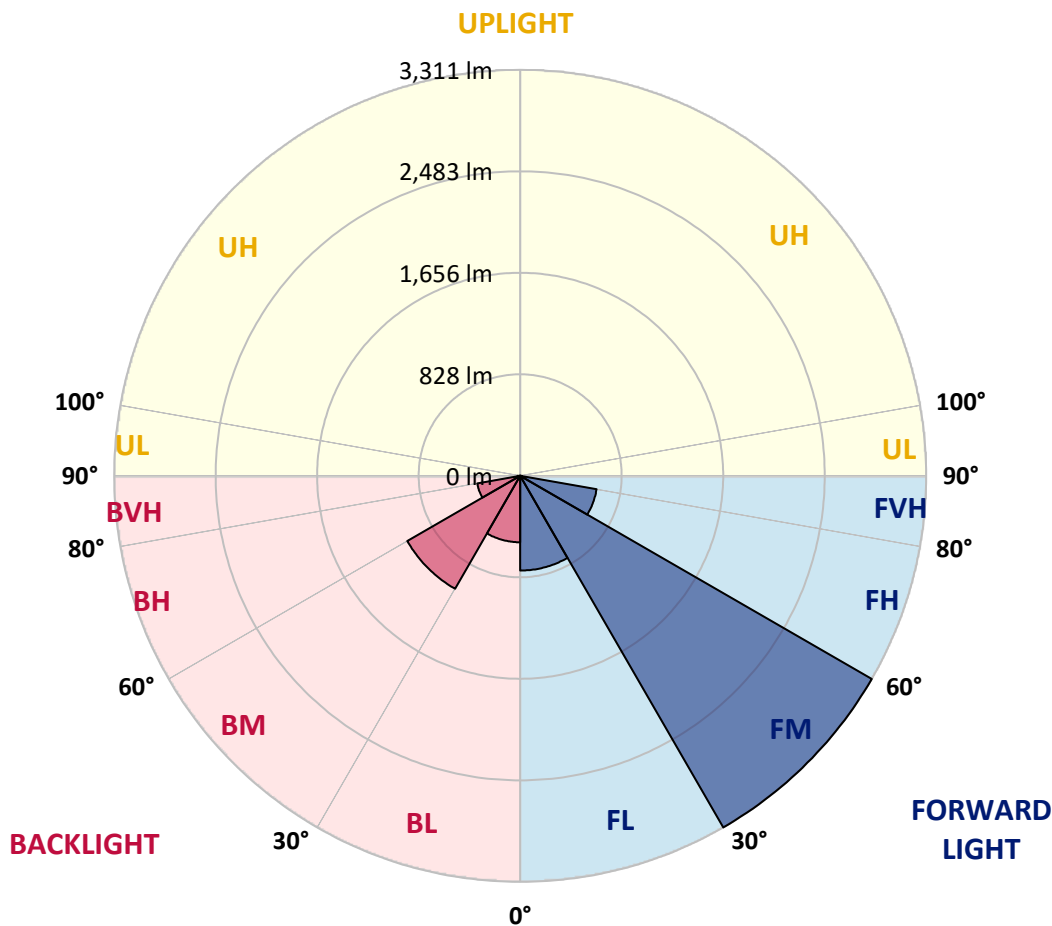


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.4	11.5			
FM (30°-60°)	3311.1	49.3			
FH (60°-80°)	632.9	9.4			G0/660
FVH (80°-90°)	14.2	0.2			G1/100
BL (0°-30°)	542.3	8.1	B2/1000		
BM (30°-60°)	1063.4	15.8	B2/2500		
BH (60°-80°)	355.5	5.3	B1/500		G1/500
BVH (80°-90°)	21.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6
2.5°	1634.0	1629.8	1639.8	1647.3	1656.5	1668.3	1674.1	1677.5	1706.7	1699.2	1721.8
5°	1598.8	1588.0	1595.5	1601.4	1617.2	1631.5	1647.3	1672.4	1699.2	1710.9	1738.5
7.5°	1567.9	1562.1	1560.4	1564.6	1586.3	1604.7	1632.3	1669.1	1712.6	1731.8	1747.7
10°	1516.9	1508.5	1521.1	1548.7	1554.5	1593.0	1624.8	1677.5	1715.1	1748.5	1795.4
12.5°	1494.3	1486.0	1488.5	1504.4	1545.3	1582.1	1619.8	1679.1	1758.6	1771.9	1834.7
15°	1530.3	1521.9	1524.4	1520.2	1559.5	1578.8	1638.2	1712.6	1788.7	1811.2	1878.1
17.5°	1612.2	1613.1	1602.2	1593.0	1583.8	1624.8	1665.7	1732.6	1800.4	1857.2	1907.4
20°	1768.6	1741.0	1719.3	1667.4	1653.2	1670.8	1722.6	1787.0	1848.0	1894.9	1951.7
22.5°	1889.0	1891.5	1860.6	1775.3	1744.3	1751.9	1796.2	1848.9	1915.8	1949.2	2014.4
25°	2063.8	2046.2	2012.8	1945.0	1875.6	1881.5	1914.1	1961.8	1980.2	2003.6	2074.7
27.5°	2223.5	2228.5	2162.5	2098.9	2012.8	1996.1	2054.6	2062.9	2032.0	2076.3	2100.6
30°	2385.7	2381.5	2338.1	2263.6	2179.2	2182.5	2208.5	2167.5	2124.8	2149.1	2165.8
32.5°	2553.8	2506.1	2504.5	2437.6	2373.2	2342.2	2310.5	2330.5	2264.5	2269.5	2253.6
35°	2688.4	2695.1	2656.7	2609.0	2577.2	2522.9	2435.9	2471.9	2459.3	2453.5	2384.9
37.5°	2786.3	2760.4	2779.6	2763.7	2733.6	2665.9	2575.6	2609.8	2615.7	2644.1	2564.7
40°	2866.6	2855.7	2906.7	2915.1	2894.1	2747.8	2585.6	2687.6	2775.4	2837.3	2742.8
42.5°	2905.0	2928.4	2982.0	3046.3	2999.5	2843.1	2637.4	2747.0	2942.6	3040.5	2911.7
45°	2956.9	2926.8	3006.2	3124.1	3124.9	2923.4	2687.6	2827.3	3073.1	3215.3	3027.1
47.5°	2904.2	2919.2	3001.2	3150.9	3189.3	3007.9	2823.1	2941.0	3216.9	3343.2	3134.1
50°	2786.3	2816.4	2966.1	3121.6	3237.8	3097.3	2978.6	3063.9	3349.9	3446.1	3151.7
52.5°	2663.4	2680.1	2914.2	3144.2	3259.6	3212.7	3186.8	3233.7	3512.1	3562.3	3173.4
55°	2328.9	2408.3	2742.8	3134.1	3365.8	3421.0	3400.9	3469.5	3696.1	3746.3	3292.2
56°	2174.2	2216.0	2639.9	3087.3	3386.7	3497.1	3487.0	3518.0	3793.9	3846.6	3310.6
57.5°	1888.2	1891.5	2251.1	2879.9	3308.1	3519.6	3509.6	3533.9	3774.7	3738.7	3149.2
60°	1181.6	1233.4	1532.0	2215.1	2813.0	3265.4	3322.3	3127.5	3182.6	3106.5	2450.1
62.5°	612.1	604.6	802.8	1295.3	1867.3	2338.1	2390.7	2381.5	2296.3	2185.0	1600.5
65°	305.2	306.9	419.8	641.4	956.6	1224.2	1371.4	1387.3	1160.7	1067.8	759.3
67.5°	221.6	230.0	301.9	392.2	450.7	504.2	618.0	606.3	459.1	436.5	404.7
70°	172.3	179.8	245.0	299.4	271.8	271.8	296.0	306.1	327.0	336.2	347.0
72.5°	125.4	131.3	187.3	206.5	178.1	191.5	221.6	245.0	266.8	270.1	282.6
75°	86.1	91.1	122.9	113.7	107.0	132.1	162.2	184.0	199.9	208.2	215.7
77.5°	56.0	57.7	70.2	59.4	68.6	85.3	105.4	123.8	139.6	146.3	148.0
80°	25.1	27.6	30.1	37.6	47.7	61.0	75.3	90.3	100.3	102.9	107.9
82.5°	14.2	14.2	18.4	26.8	35.1	44.3	54.4	65.2	76.9	79.4	78.6
85°	7.5	7.5	10.9	15.9	21.7	25.9	25.1	25.9	27.6	31.8	30.9
87.5°	2.5	2.5	3.3	3.3	4.2	5.0	4.2	5.9	7.5	7.5	7.5
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°	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6
2.5°	1715.1	1722.6	1712.6	1734.3	1734.3	1730.1	1709.2	1715.9	1720.9	1720.9	1725.1
5°	1747.7	1745.2	1751.9	1726.0	1710.1	1704.2	1669.9	1653.2	1639.0	1638.2	1625.6
7.5°	1766.1	1759.4	1756.9	1737.7	1667.4	1624.8	1551.2	1508.5	1499.3	1466.7	1479.3
10°	1795.4	1807.9	1795.4	1690.8	1593.0	1495.2	1423.2	1357.2	1331.3	1310.4	1297.8
12.5°	1855.6	1849.7	1777.0	1635.6	1498.5	1382.3	1275.2	1205.8	1179.9	1161.5	1159.8
15°	1906.6	1877.3	1766.1	1548.7	1351.3	1227.6	1139.8	1090.4	1078.7	1080.4	1087.9
17.5°	1924.1	1904.1	1709.2	1458.4	1241.8	1096.3	1055.3	1047.8	1058.7	1071.2	1074.5
20°	1951.7	1920.0	1685.8	1335.4	1106.3	1014.3	1011.8	1038.6	1058.7	1077.0	1079.6
22.5°	2009.4	1929.2	1609.7	1219.2	1013.5	990.1	1014.3	1036.9	1067.8	1082.9	1069.5
25°	2026.2	1909.1	1502.7	1079.6	955.0	975.0	1001.0	1031.9	1053.6	1062.0	1067.8
27.5°	2040.4	1878.1	1358.0	986.7	936.6	974.2	1001.0	1026.9	1038.6	1046.1	1052.8
30°	2080.5	1868.9	1232.6	924.9	924.9	957.5	991.8	998.4	1014.3	1023.5	1035.2
32.5°	2100.6	1805.4	1103.8	885.6	913.1	965.8	968.3	980.9	981.7	989.2	976.7
35°	2153.3	1760.2	984.2	857.1	918.2	957.5	970.0	962.5	921.5	901.4	905.6
37.5°	2191.7	1737.7	898.1	853.8	919.0	966.7	973.4	916.5	873.8	840.4	848.8
40°	2295.4	1681.6	832.9	847.9	926.5	976.7	958.3	896.4	819.5	785.2	779.4
42.5°	2374.9	1641.5	791.9	841.2	932.4	990.9	950.8	856.3	777.7	745.9	754.3
45°	2466.8	1632.3	770.2	842.9	942.4	998.4	941.6	825.3	741.7	729.2	726.7
47.5°	2499.5	1566.2	746.7	828.7	939.9	995.9	910.6	801.9	728.3	730.0	736.7
50°	2445.1	1498.5	729.2	799.4	923.2	973.4	862.1	771.0	720.8	741.7	753.4
52.5°	2375.7	1429.1	693.2	760.1	888.9	938.2	839.6	769.3	713.3	706.6	709.1
55°	2396.6	1372.2	643.1	706.6	833.7	873.0	814.5	753.4	694.9	669.8	678.2
56°	2328.9	1313.7	610.4	673.2	796.1	831.2	801.9	739.2	679.8	663.1	663.1
57.5°	2137.4	1117.2	567.8	619.6	716.6	758.4	777.7	730.9	663.1	633.9	634.7
60°	1576.3	794.4	509.3	546.1	593.7	627.2	716.6	707.4	621.3	601.2	593.7
62.5°	971.7	580.3	467.4	481.7	505.9	533.5	625.5	640.5	577.0	555.2	550.2
65°	544.4	444.0	435.7	441.5	453.2	467.4	519.3	552.7	509.3	475.8	474.1
67.5°	398.0	397.2	403.9	408.9	413.9	413.9	426.5	439.9	434.0	407.2	404.7
70°	353.7	356.2	361.2	362.1	363.8	357.9	347.9	343.7	350.4	333.7	330.3
72.5°	291.8	300.2	306.1	306.9	297.7	290.2	276.8	262.6	257.6	254.2	253.4
75°	224.1	230.0	232.5	231.6	228.3	217.4	201.5	187.3	178.1	168.1	173.1
77.5°	151.4	159.7	163.9	163.9	158.9	142.2	134.6	123.8	114.6	103.7	105.4
80°	106.2	112.1	118.7	117.9	109.5	101.2	90.3	80.3	72.8	64.4	63.6
82.5°	79.4	82.8	86.1	84.5	78.6	70.2	62.7	53.5	45.2	39.3	39.3
85°	28.4	30.9	37.6	39.3	42.6	42.6	36.0	30.1	24.3	20.1	20.1
87.5°	8.4	8.4	9.2	9.2	8.4	9.2	7.5	8.4	9.2	5.9	5.9
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)