

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636566

Luminaire Tested: GWS-SA4B-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10578 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

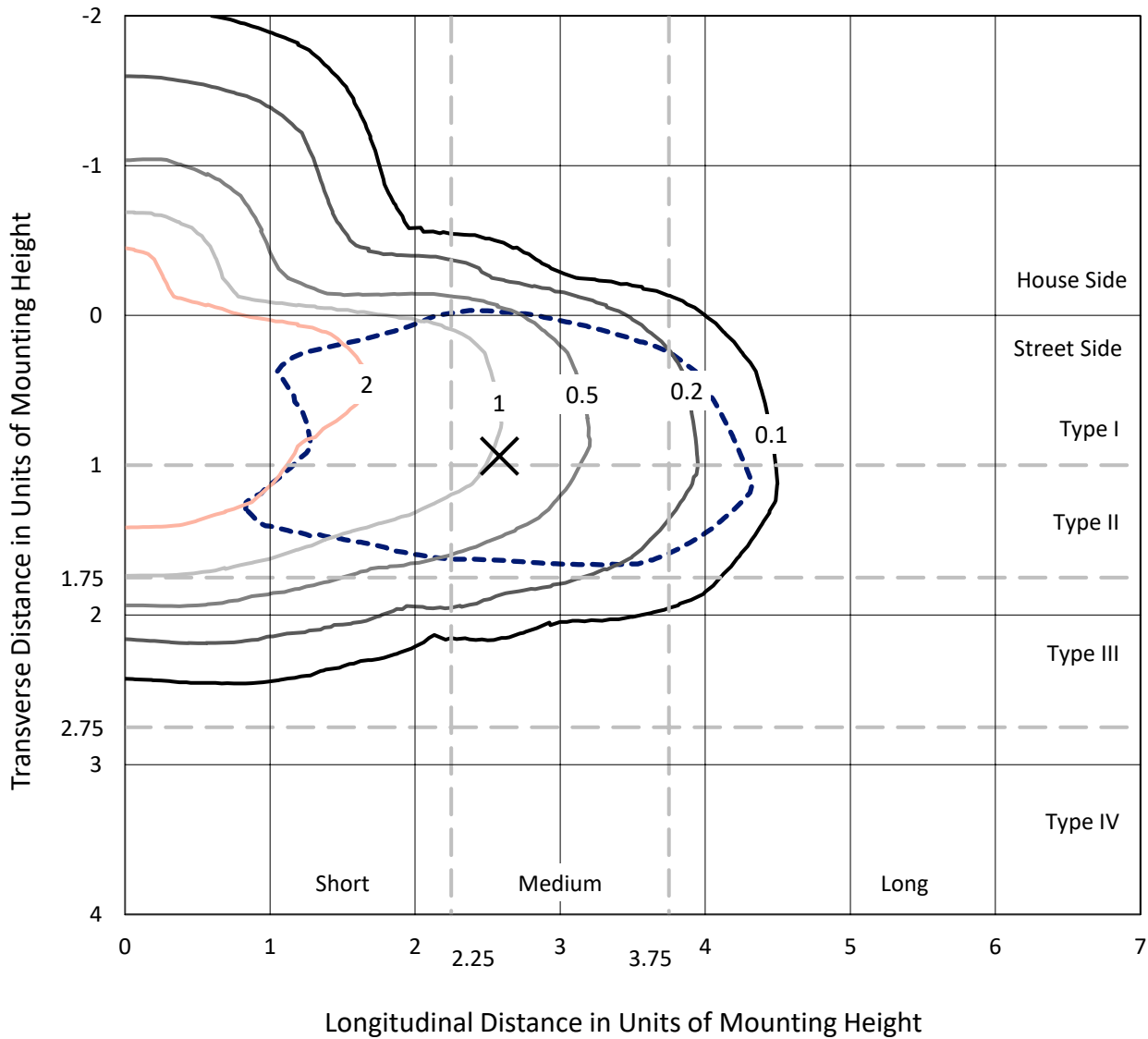
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

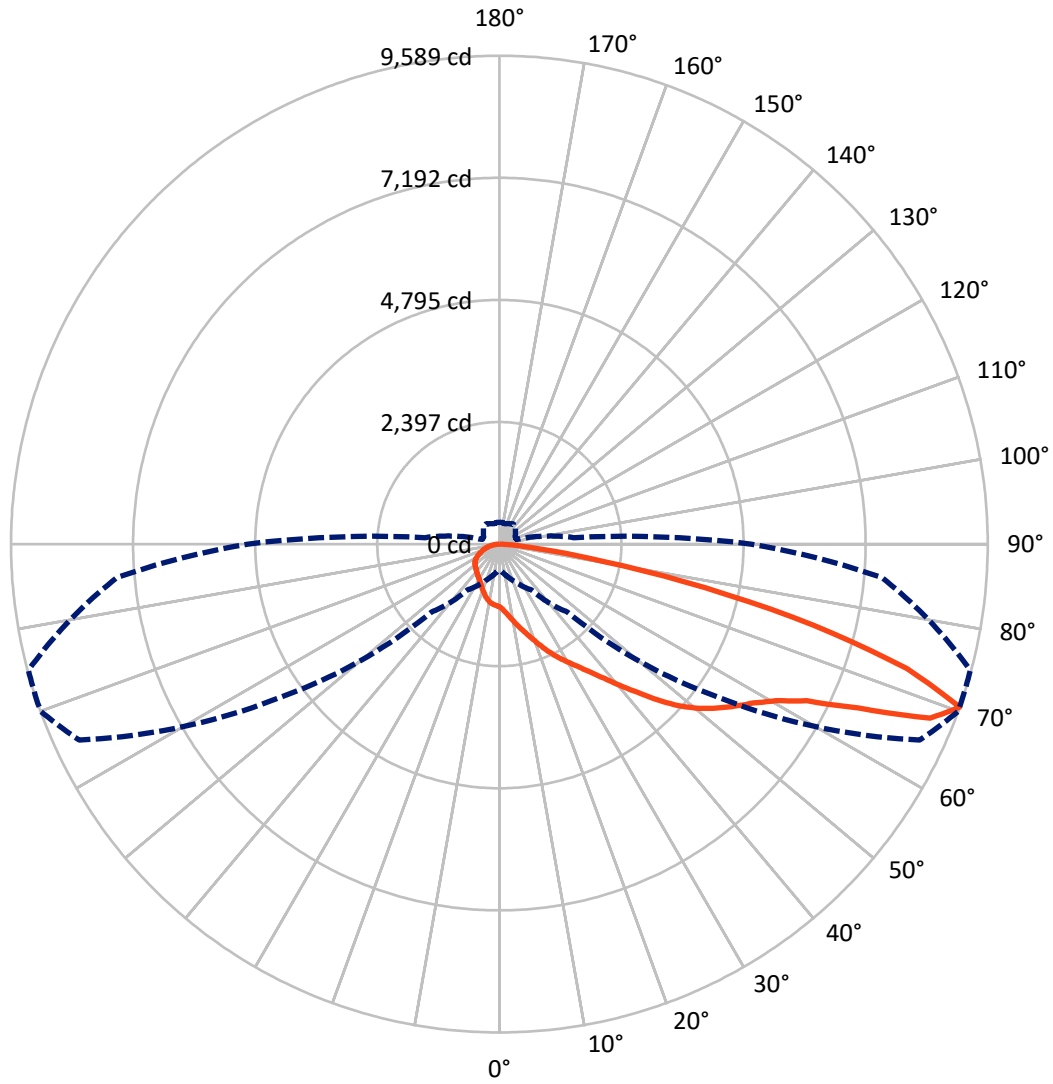
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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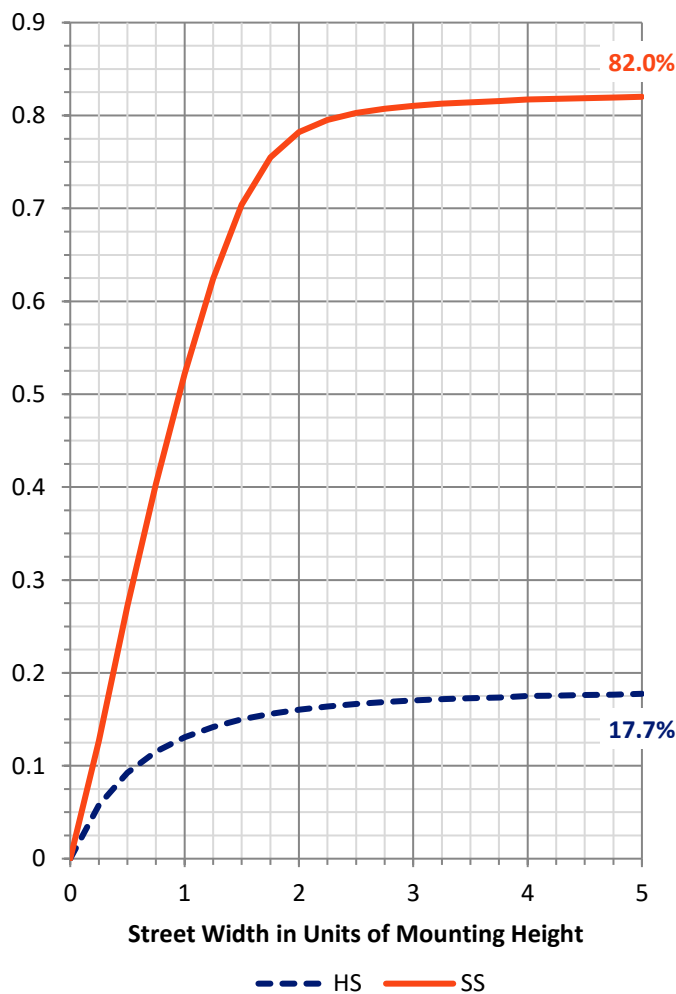
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.6	0.0	1895.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	8682.4	0.0	8682.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	10578.0	0.0	10578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.2
10°-20°	407.9	3.9
20°-30°	722.6	6.8
30°-40°	1087.5	10.3
40°-50°	1645.2	15.6
50°-60°	2356.8	22.3
60°-70°	2605.2	24.6
70°-80°	1470.2	13.9
80°-90°	157.3	1.5
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°	10578.0	100.0
0°-180°	10578.0	100.0

Coefficient of Utilization



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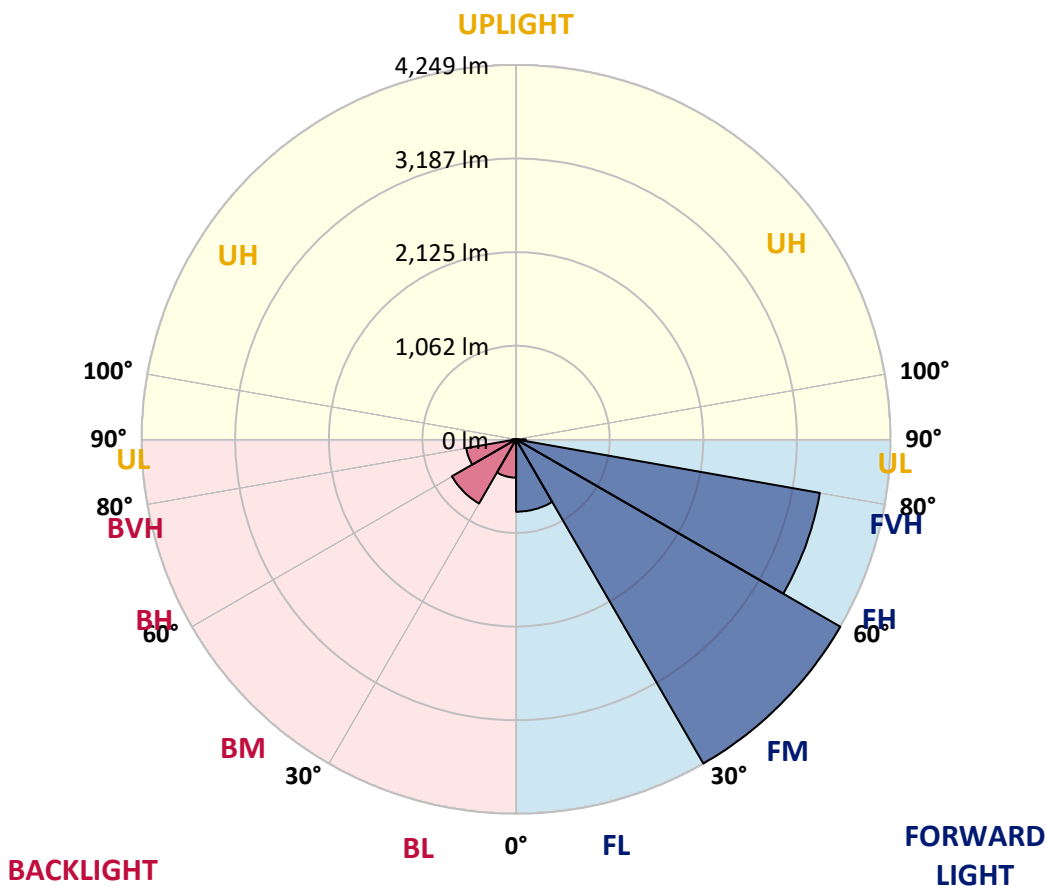
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.2	7.8			
FM (30°-60°)	4249.2	40.2			
FH (60°-80°)	3500.9	33.1			G2/5000
FVH (80°-90°)	111.2	1.1			G2/225
BL (0°-30°)	434.6	4.1	B1/500		
BM (30°-60°)	840.3	7.9	B1/1000		
BH (60°-80°)	574.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.4			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1366.6	1364.3	1365.8	1364.3	1355.9	1335.3	1318.5	1297.1	1282.5	1274.1	1254.3
5°	1527.1	1524.8	1519.5	1511.8	1496.5	1468.3	1426.2	1379.6	1351.3	1329.9	1287.9
7.5°	1642.5	1642.5	1641.8	1632.6	1621.9	1592.1	1542.4	1481.3	1440.0	1403.3	1334.5
10°	1701.4	1705.2	1710.6	1723.5	1721.3	1705.2	1658.6	1592.8	1540.9	1498.1	1395.6
12.5°	1733.5	1735.8	1744.9	1771.7	1799.2	1803.0	1775.5	1706.7	1650.2	1592.8	1463.7
15°	1774.8	1775.5	1787.7	1819.8	1860.4	1900.9	1894.0	1825.2	1767.1	1703.7	1539.3
17.5°	1806.9	1812.2	1834.4	1871.8	1922.3	1978.1	2011.7	1968.9	1897.0	1824.4	1621.9
20°	1818.3	1822.1	1851.2	1908.5	1977.3	2056.0	2130.9	2119.5	2046.9	1961.2	1715.1
22.5°	1859.6	1859.6	1881.0	1929.1	2010.2	2124.8	2246.3	2276.1	2211.9	2111.8	1815.3
25°	1950.5	1947.5	1957.4	1977.3	2038.4	2179.8	2360.2	2449.6	2377.8	2265.4	1915.4
27.5°	2075.1	2073.6	2072.8	2075.9	2096.5	2228.0	2456.5	2611.7	2539.8	2413.0	2004.8
30°	2210.4	2205.8	2215.8	2206.6	2202.0	2285.3	2538.3	2756.9	2701.1	2558.9	2079.0
32.5°	2394.6	2386.2	2383.9	2354.1	2335.8	2374.7	2604.0	2922.0	2877.7	2716.4	2162.3
35°	2637.7	2630.0	2591.0	2543.7	2489.4	2507.7	2685.8	3083.3	3086.3	2913.6	2271.6
37.5°	2883.0	2884.5	2854.0	2742.4	2686.6	2675.9	2810.4	3279.7	3345.4	3149.0	2413.0
40°	3087.1	3096.3	3096.3	2978.6	2895.2	2885.3	2985.4	3512.8	3643.5	3437.9	2591.8
42.5°	3242.2	3250.7	3277.4	3192.6	3104.7	3139.1	3197.9	3746.7	3981.3	3794.9	2818.1
45°	3412.7	3419.6	3434.1	3385.2	3334.0	3425.7	3438.7	4026.4	4368.1	4195.4	3081.0
47.5°	3638.9	3632.8	3634.3	3598.4	3558.7	3707.0	3703.9	4261.9	4741.8	4634.1	3366.1
50°	3920.2	3931.7	3921.0	3849.9	3803.3	3938.5	3956.1	4522.5	5070.5	5068.2	3653.5
52.5°	4190.8	4195.4	4251.9	4255.0	4159.4	4131.2	4177.0	4785.4	5348.0	5465.7	3929.4
55°	4204.5	4222.1	4391.8	4514.1	4668.5	4441.5	4400.2	5036.1	5616.2	5854.7	4216.0
57.5°	3911.8	3940.1	4228.2	4491.9	4921.5	4974.2	4782.4	5360.2	5884.5	6237.6	4547.7
60°	3286.6	3345.4	3736.8	4140.3	4807.6	5357.1	5564.3	5800.4	6236.9	6629.0	4950.5
62.5°	2098.8	2121.8	2670.5	3346.2	4294.7	5319.7	6415.7	6576.2	6773.4	7138.8	5571.1
65°	1050.9	1124.3	1446.1	1997.2	3097.0	4687.6	6846.0	7997.1	7755.6	8011.6	6577.0
67.5°	713.1	736.8	899.6	1200.0	1816.0	3321.0	6579.3	9194.0	9122.9	9165.0	7649.3
70°	525.9	541.1	669.5	849.9	1098.3	1885.6	5237.9	9103.8	9589.2	9573.9	7537.0
72.5°	383.7	391.3	488.4	648.9	814.0	975.3	3198.7	7354.3	8370.8	8811.9	6591.5
75°	279.0	288.1	339.4	485.3	632.9	608.4	1579.1	5312.0	6383.6	7232.0	5370.1
77.5°	207.9	219.4	243.1	304.2	443.3	435.7	682.5	3449.4	4128.9	4723.5	3262.1
80°	149.8	152.1	165.9	194.9	281.3	255.3	324.8	1798.4	2062.1	2259.3	1278.7
82.5°	91.0	93.2	110.8	120.0	174.3	160.5	168.9	582.4	834.6	885.8	477.7
85°	26.8	28.3	50.4	55.0	72.6	68.8	68.0	236.9	282.8	361.5	188.0
87.5°	0.0	0.0	0.0	0.0	0.8	4.6	8.4	42.0	63.4	87.9	45.9
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°	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1246.6	1229.0	1219.9	1203.8	1192.3	1180.9	1169.4	1158.7	1154.1	1147.2	1148.8
5°	1268.8	1241.3	1213.7	1182.4	1155.7	1133.5	1113.6	1096.0	1088.4	1081.5	1084.6
7.5°	1302.4	1261.1	1208.4	1151.1	1109.0	1078.5	1057.8	1045.6	1041.8	1036.4	1036.4
10°	1345.2	1283.3	1190.8	1109.0	1058.6	1034.1	1025.0	1024.2	1028.0	1028.8	1027.2
12.5°	1392.6	1304.7	1164.8	1059.3	1016.5	1008.9	1015.8	1028.8	1041.8	1048.6	1047.1
15°	1441.5	1318.5	1120.5	1012.0	986.0	995.9	1018.1	1044.1	1069.3	1082.3	1081.5
17.5°	1487.4	1321.5	1063.2	966.1	959.2	984.4	1022.7	1063.2	1097.6	1115.9	1116.7
20°	1538.6	1316.2	1004.3	924.8	932.5	973.7	1024.2	1073.1	1113.6	1132.0	1136.5
22.5°	1585.2	1297.8	947.0	885.8	909.5	960.8	1012.0	1057.8	1093.7	1111.3	1117.4
25°	1627.2	1262.7	884.3	853.0	892.0	942.4	981.4	1013.5	1038.7	1049.4	1057.8
27.5°	1650.2	1209.9	836.9	827.0	875.1	916.4	937.8	947.8	956.2	953.1	959.2
30°	1654.8	1144.2	795.7	806.4	849.9	880.5	885.1	875.1	860.6	836.9	842.3
32.5°	1650.2	1068.5	761.3	784.2	821.6	840.0	833.9	807.9	772.7	736.0	738.3
35°	1651.7	992.1	733.0	759.7	788.8	798.7	783.4	747.5	710.1	676.4	674.9
37.5°	1668.5	927.9	709.3	736.0	756.7	758.2	741.4	703.9	684.8	659.6	656.6
40°	1715.1	880.5	687.9	712.3	725.3	724.6	705.5	678.7	691.7	683.3	681.0
42.5°	1791.6	851.5	670.3	687.1	696.3	697.8	682.5	665.7	694.0	683.3	679.5
45°	1914.6	849.9	658.1	661.9	676.4	687.1	676.4	657.3	668.0	616.0	606.1
47.5°	2060.6	875.9	648.9	639.7	665.0	684.1	667.3	636.7	614.5	567.1	560.2
50°	2236.4	928.6	640.5	616.0	648.1	672.6	655.8	613.7	580.1	554.9	551.1
52.5°	2445.1	998.2	629.8	589.3	622.9	666.5	655.8	611.5	567.1	544.2	540.4
55°	2663.7	1078.5	617.6	557.2	594.6	668.0	661.1	595.4	557.2	545.0	541.9
57.5°	2935.0	1174.8	595.4	519.7	569.4	654.3	639.7	586.2	550.3	540.4	537.3
60°	3287.3	1317.7	553.4	481.5	540.4	629.8	620.6	570.9	532.0	523.6	521.3
62.5°	3845.3	1560.0	502.2	444.8	506.0	578.6	592.3	541.9	509.0	508.3	507.5
65°	4754.8	1851.2	441.8	412.0	470.1	536.6	554.9	512.1	485.3	493.8	493.0
67.5°	5392.3	1876.4	392.1	377.6	428.0	490.7	517.4	481.5	452.5	468.5	467.8
70°	4939.0	1463.7	349.3	341.7	382.9	441.0	476.9	443.3	414.3	429.5	426.5
72.5°	4165.5	1122.0	308.8	304.2	337.1	389.0	425.0	405.1	374.5	374.5	367.6
75°	3347.7	925.6	266.0	263.7	285.9	336.3	376.8	343.2	314.9	313.4	308.8
77.5°	1920.0	606.9	223.2	221.7	228.5	281.3	292.7	285.9	264.5	254.5	251.5
80°	765.1	315.7	175.8	165.9	172.7	206.4	230.8	219.4	201.0	188.8	181.9
82.5°	296.6	158.2	123.8	108.5	118.5	149.0	167.4	163.6	151.3	123.8	116.2
85°	120.8	77.2	74.1	62.7	68.8	80.3	96.3	83.3	68.8	48.9	46.6
87.5°	32.1	28.3	27.5	16.8	13.0	3.8	0.8	0.0	0.0	0.0	0.0
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)