

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: P631791

Luminaire Tested: GWS-SA2B-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5967.6 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

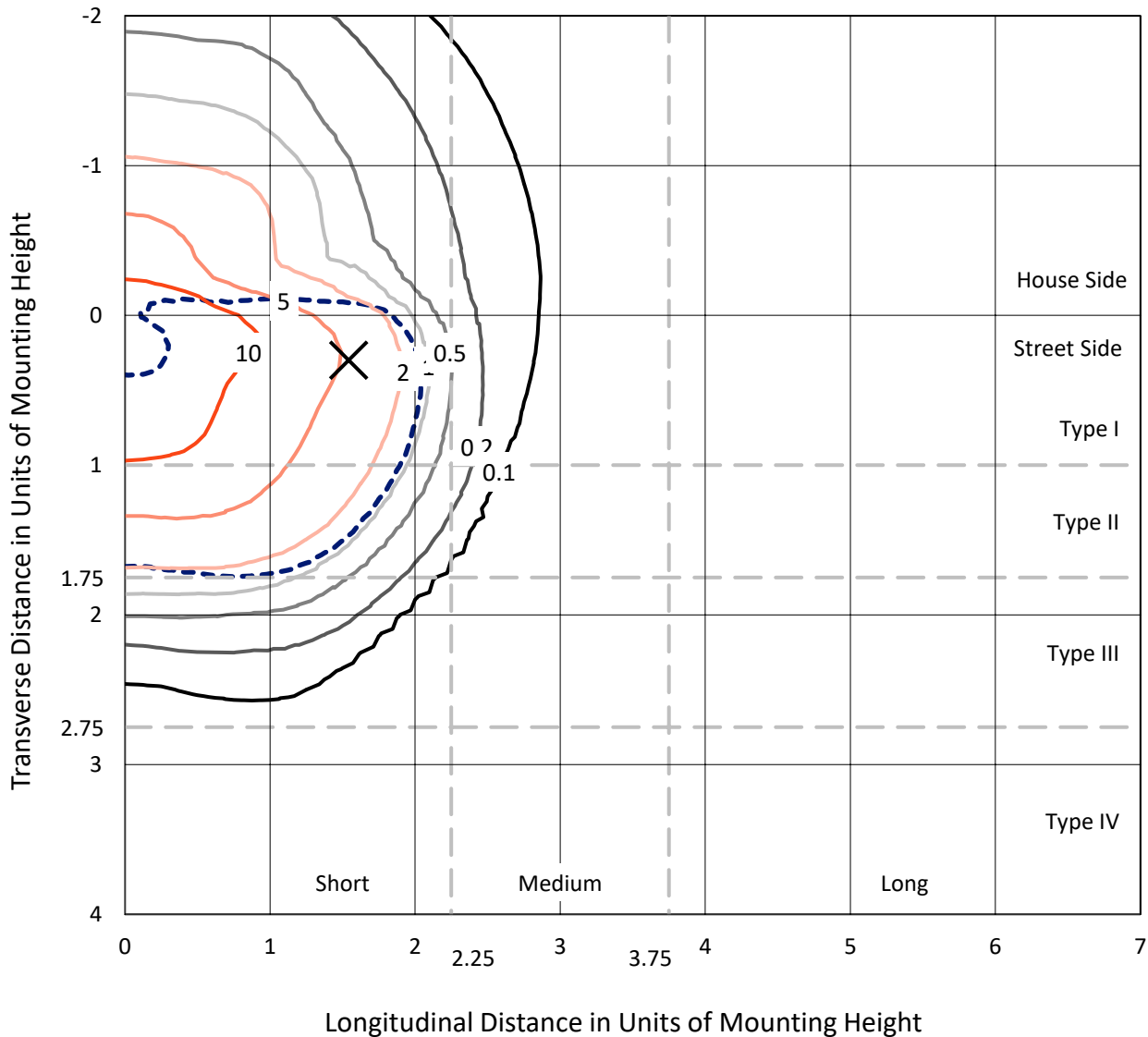
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

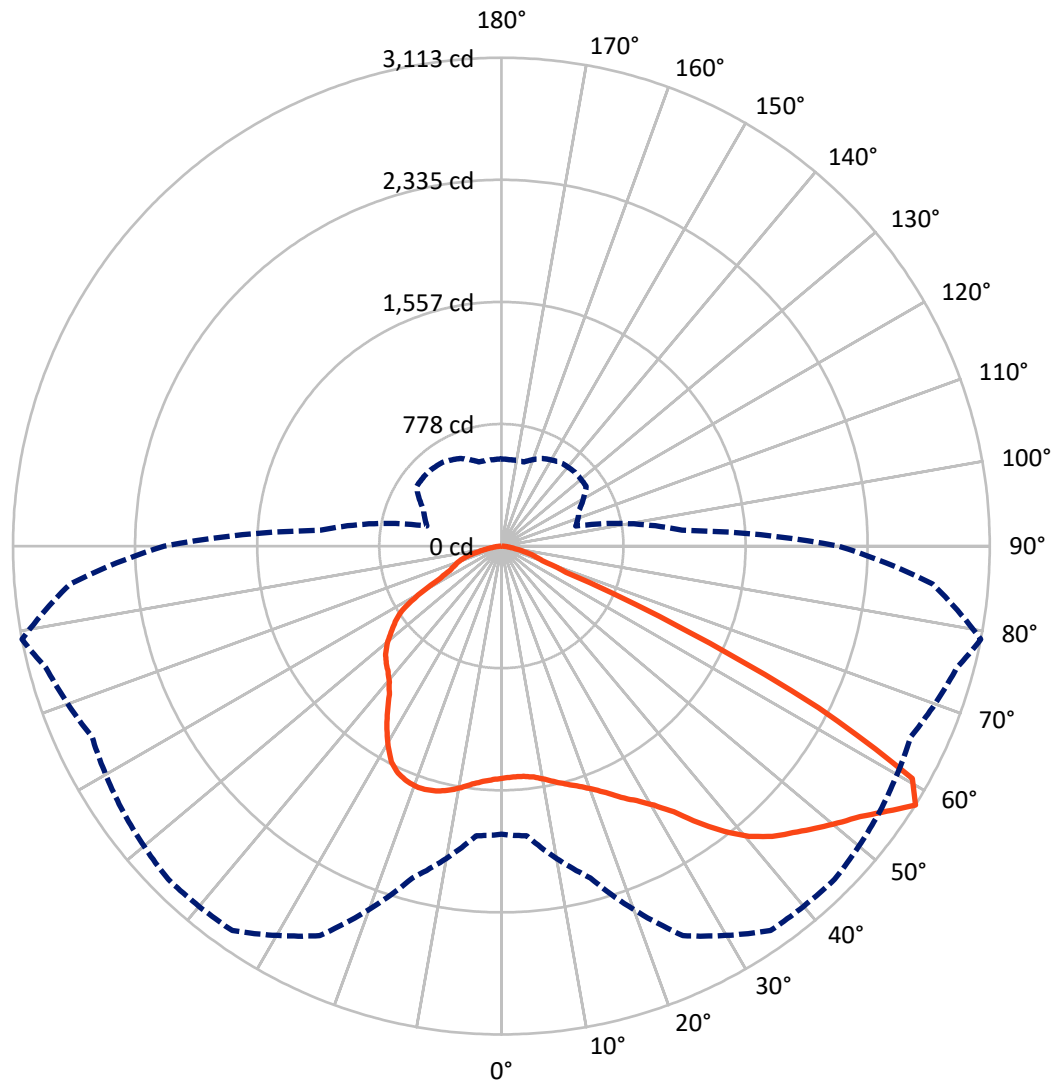
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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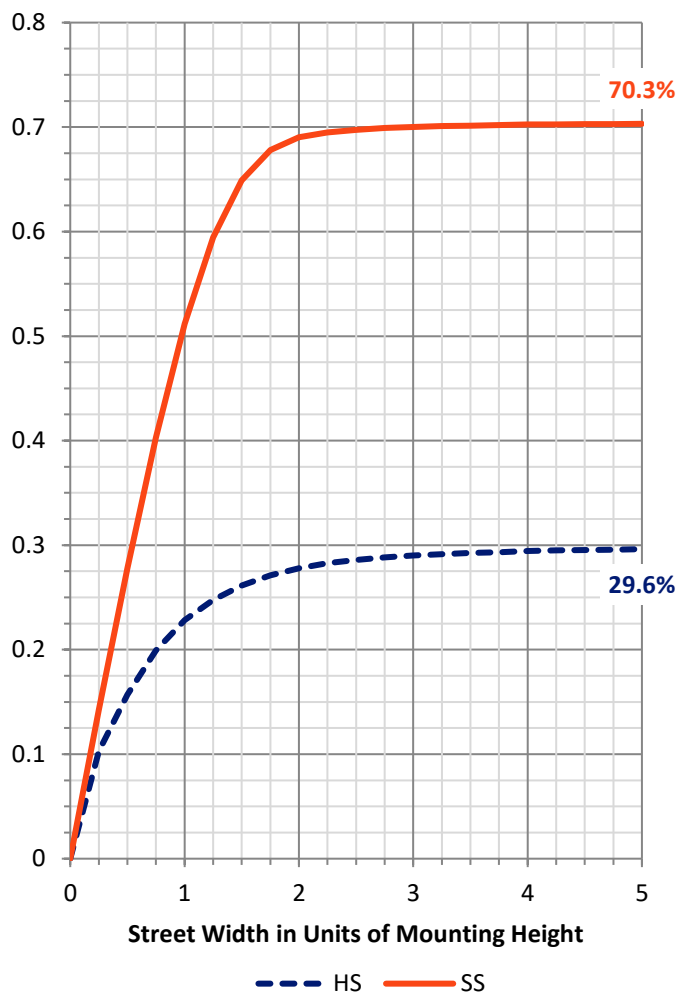
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1773.9	0.0	1773.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	4193.7	0.0	4193.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	5967.6	0.0	5967.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.3
10°-20°	380.6	6.4
20°-30°	645.2	10.8
30°-40°	987.5	16.5
40°-50°	1316.7	22.1
50°-60°	1520.7	25.5
60°-70°	790.2	13.2
70°-80°	168.0	2.8
80°-90°	21.8	0.4
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°	5967.6	100.0
0°-180°	5967.6	100.0

Coefficient of Utilization



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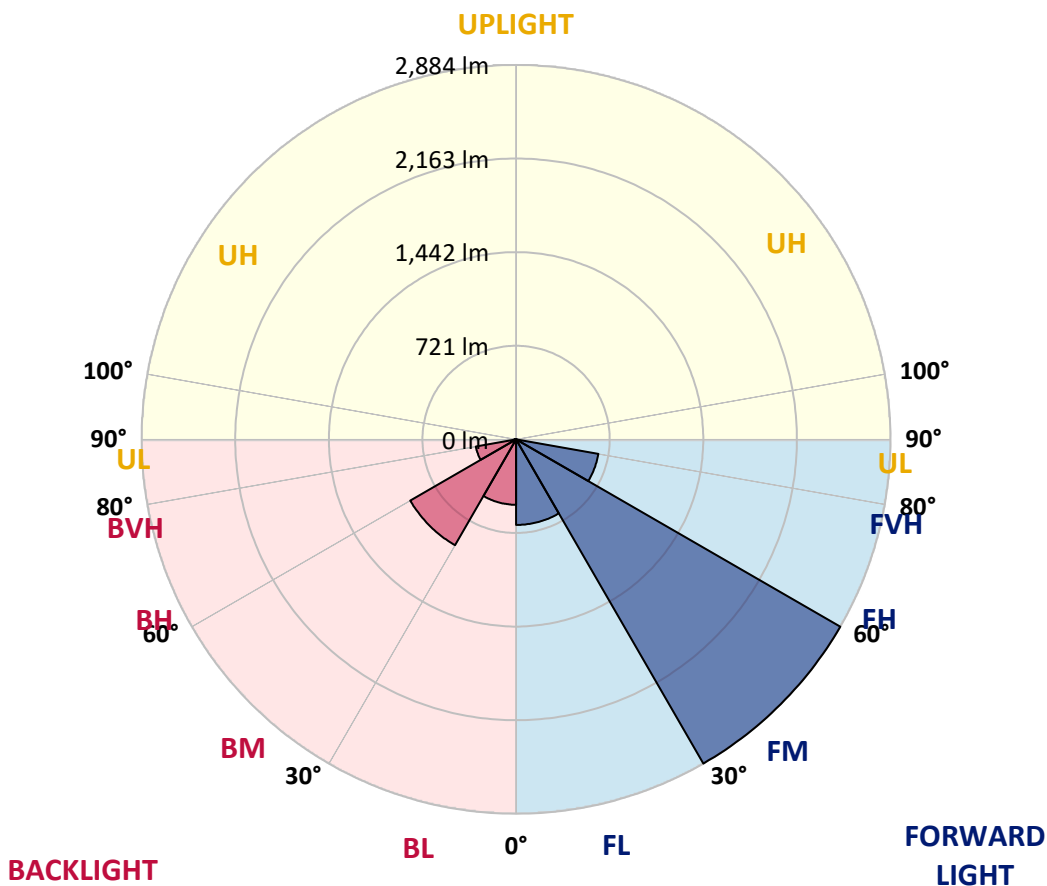
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.0	11.0			
FM (30°-60°)	2883.7	48.3			
FH (60°-80°)	643.5	10.8			G0/660
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	503.8	8.4	B2/1000		
BM (30°-60°)	941.2	15.8	B1/1000		
BH (60°-80°)	314.7	5.3	B1/500		G1/500
BVH (80°-90°)	14.2	0.2			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°	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9
2.5°	1411.6	1408.6	1409.6	1413.5	1428.2	1438.9	1450.1	1460.4	1470.1	1473.1	1475.5
5°	1361.3	1356.0	1357.4	1363.8	1380.8	1398.9	1418.9	1443.3	1466.7	1474.5	1484.8
7.5°	1325.7	1324.7	1327.2	1336.9	1355.0	1372.1	1397.9	1432.6	1473.1	1486.2	1504.3
10°	1278.4	1276.4	1286.2	1306.2	1335.9	1363.3	1394.0	1435.0	1491.6	1511.1	1538.9
12.5°	1240.8	1239.8	1250.1	1277.9	1315.9	1359.4	1401.8	1447.7	1516.5	1543.3	1577.5
15°	1262.8	1258.4	1258.9	1278.4	1312.5	1363.8	1421.3	1470.6	1541.4	1575.5	1619.4
17.5°	1326.7	1318.9	1313.0	1316.4	1335.9	1389.1	1451.1	1501.4	1570.2	1610.2	1663.8
20°	1415.0	1410.6	1394.5	1383.8	1388.2	1435.0	1497.9	1544.8	1607.7	1652.6	1710.2
22.5°	1533.6	1522.8	1500.9	1483.8	1470.6	1507.2	1565.3	1605.8	1659.9	1706.8	1766.8
25°	1680.4	1664.8	1630.2	1603.3	1575.0	1612.6	1664.3	1695.1	1731.7	1775.1	1832.2
27.5°	1830.2	1817.0	1778.5	1742.4	1707.3	1730.7	1792.2	1809.7	1805.8	1837.5	1886.3
30°	1989.8	1973.2	1936.6	1897.6	1852.2	1867.3	1922.4	1931.2	1889.7	1916.1	1949.3
32.5°	2158.1	2142.0	2110.3	2064.9	2013.7	2019.5	2034.7	2043.0	2003.4	2018.6	2043.9
35°	2329.4	2314.2	2282.0	2237.1	2199.6	2164.0	2125.9	2159.1	2136.1	2165.4	2163.5
37.5°	2486.0	2470.9	2450.9	2416.2	2351.8	2281.6	2193.7	2234.7	2270.3	2307.4	2301.1
40°	2591.9	2581.6	2586.5	2581.1	2498.2	2359.1	2226.9	2271.8	2368.9	2432.3	2428.9
42.5°	2683.1	2672.9	2701.2	2721.7	2624.1	2430.9	2243.0	2285.9	2431.8	2530.9	2526.0
45°	2723.6	2720.7	2767.5	2832.4	2739.2	2507.0	2284.5	2315.2	2479.6	2606.5	2588.0
47.5°	2675.3	2685.6	2777.8	2887.6	2834.9	2597.2	2369.4	2377.2	2542.1	2688.5	2636.3
50°	2579.2	2601.6	2726.1	2889.0	2904.6	2699.2	2487.0	2467.5	2626.0	2775.8	2661.6
52.5°	2439.2	2462.6	2665.5	2877.8	2944.6	2817.3	2643.6	2615.8	2731.9	2863.2	2666.0
55°	2117.6	2149.3	2527.0	2852.4	2983.7	2924.6	2820.2	2763.6	2868.5	2983.2	2709.5
57.5°	1837.0	1853.6	2189.3	2739.7	2991.5	3003.7	2946.1	2878.8	3004.2	3113.0	2758.3
60°	1348.1	1352.0	1654.1	2266.9	2751.9	2957.8	2935.9	2835.8	2939.8	3009.1	2534.8
62.5°	761.7	762.1	1003.2	1513.1	2055.6	2410.9	2424.5	2336.2	2248.9	2269.4	1764.3
65°	285.9	312.8	458.2	743.6	1185.2	1423.3	1479.9	1500.4	1355.0	1264.7	946.1
67.5°	191.3	197.6	267.4	382.5	527.4	608.9	681.1	683.1	499.6	445.5	372.8
70°	145.9	152.2	210.3	273.7	267.4	246.9	266.9	259.6	268.4	275.7	283.5
72.5°	108.8	115.2	163.0	193.2	160.5	158.1	179.1	199.1	217.6	225.4	237.6
75°	72.2	77.1	109.8	103.4	88.8	104.9	130.8	150.8	161.5	170.8	180.0
77.5°	45.9	49.3	58.6	47.3	49.3	61.5	76.1	94.2	104.4	113.7	118.6
80°	21.0	20.5	20.0	22.4	27.8	36.1	45.9	56.6	64.4	68.3	71.2
82.5°	8.3	9.3	10.2	12.2	15.1	19.5	25.9	33.2	39.5	40.5	42.9
85°	3.4	3.9	4.4	5.4	6.8	8.8	10.7	15.1	19.0	20.5	22.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.4	4.4	4.9	5.4
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°	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9	1478.9
2.5°	1488.7	1482.3	1493.1	1500.4	1507.2	1499.9	1497.5	1491.1	1490.1	1490.1	1493.5
5°	1502.3	1497.9	1509.2	1513.6	1513.1	1497.0	1487.2	1474.5	1468.2	1468.2	1469.2
7.5°	1526.7	1524.3	1530.6	1523.8	1508.2	1475.5	1443.3	1416.5	1398.4	1389.1	1392.1
10°	1567.2	1564.3	1558.9	1533.6	1488.7	1420.8	1355.0	1306.2	1276.9	1260.3	1261.3
12.5°	1606.7	1601.9	1582.8	1526.7	1434.5	1326.7	1240.3	1185.7	1153.5	1133.9	1129.6
15°	1650.2	1637.5	1596.5	1491.6	1346.2	1211.5	1121.3	1062.2	1027.6	1015.9	1015.4
17.5°	1691.6	1669.2	1595.0	1429.1	1240.3	1091.0	1000.3	963.7	957.8	963.2	964.6
20°	1733.6	1697.5	1578.9	1342.8	1114.4	971.0	924.1	939.3	961.2	975.9	979.3
22.5°	1777.0	1720.9	1542.3	1231.5	981.7	890.0	909.5	942.7	970.0	989.5	991.5
25°	1825.8	1742.9	1487.7	1095.4	875.3	867.5	906.1	941.2	970.5	992.9	996.8
27.5°	1853.6	1743.4	1411.1	955.4	826.5	858.8	897.8	931.0	960.2	984.6	989.0
30°	1881.0	1730.2	1289.6	841.7	812.4	848.5	883.6	914.4	942.2	966.1	971.5
32.5°	1919.5	1718.0	1149.6	776.3	804.1	838.7	867.5	894.9	916.3	927.1	930.0
35°	1967.3	1702.4	1000.7	748.0	798.7	830.9	856.3	871.0	843.1	837.3	843.6
37.5°	2034.2	1687.7	852.4	735.8	795.3	828.0	850.5	812.9	778.7	765.1	770.0
40°	2106.4	1679.4	751.9	726.0	796.8	830.9	826.1	770.4	721.2	692.4	691.4
42.5°	2167.9	1666.8	687.5	719.7	800.7	842.2	792.9	732.9	659.7	642.6	643.1
45°	2209.3	1634.6	653.3	712.9	804.1	844.6	777.3	681.1	628.9	618.2	617.7
47.5°	2226.4	1576.0	631.4	702.1	803.6	824.6	745.6	659.7	607.5	604.5	606.5
50°	2215.2	1479.9	608.9	681.1	791.9	803.6	709.0	640.6	592.8	608.9	620.6
52.5°	2173.7	1355.5	582.1	652.4	770.9	779.7	690.4	628.9	582.1	603.6	612.8
55°	2163.0	1254.5	547.9	614.8	739.7	737.3	670.9	623.1	574.8	566.5	567.9
57.5°	2148.8	1155.9	491.3	547.5	660.7	664.6	652.4	616.3	555.7	553.3	555.7
60°	1866.8	886.1	438.2	472.3	542.6	563.6	631.4	603.6	525.0	514.8	514.3
62.5°	1219.3	536.7	389.9	411.8	442.1	466.5	575.8	567.0	491.3	485.0	489.4
65°	655.8	382.5	354.7	367.9	384.5	403.0	477.2	505.0	444.0	421.6	422.1
67.5°	335.2	325.4	328.4	337.6	350.3	359.6	385.0	409.4	378.6	359.6	359.1
70°	286.9	294.7	299.1	304.5	312.8	311.3	313.7	318.1	315.7	306.4	305.9
72.5°	244.5	256.7	257.6	258.6	261.5	254.7	250.3	243.0	243.5	244.9	245.4
75°	185.9	197.6	200.5	199.1	202.0	193.2	187.4	180.0	171.3	169.8	170.8
77.5°	121.0	130.3	134.7	133.7	135.2	128.3	125.4	117.6	107.3	103.4	103.4
80°	73.2	78.6	82.0	82.9	84.4	79.5	74.7	67.8	63.4	59.0	59.0
82.5°	44.4	47.8	50.3	50.3	51.7	46.4	42.4	37.6	35.6	31.7	31.7
85°	22.4	24.9	25.9	25.4	24.4	20.0	18.5	16.1	15.1	13.2	13.2
87.5°	5.4	6.8	6.8	4.9	4.9	2.4	1.5	0.5	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)