

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: P636802

Luminaire Tested: GWS-SA4B-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14350.3 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

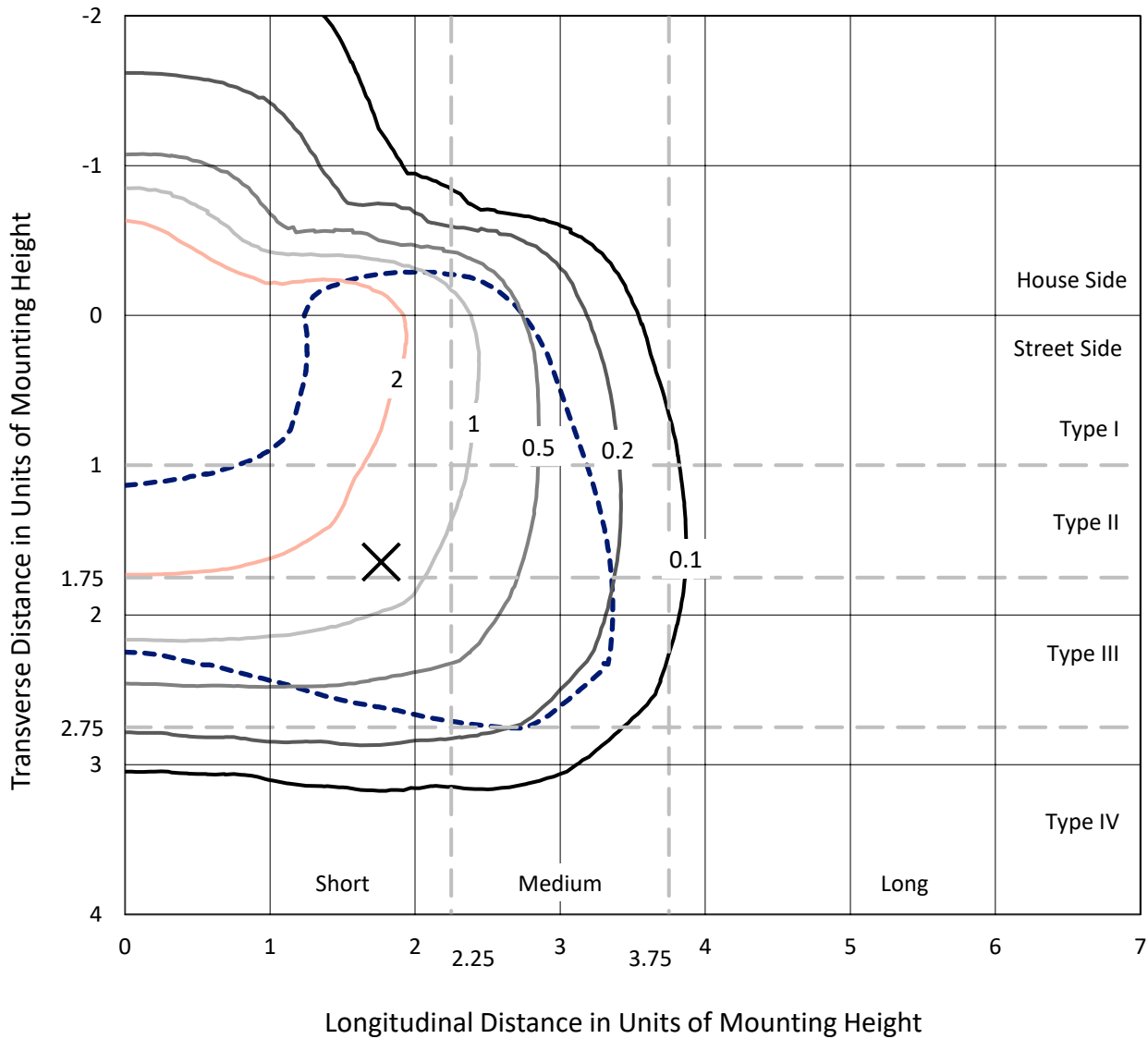
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

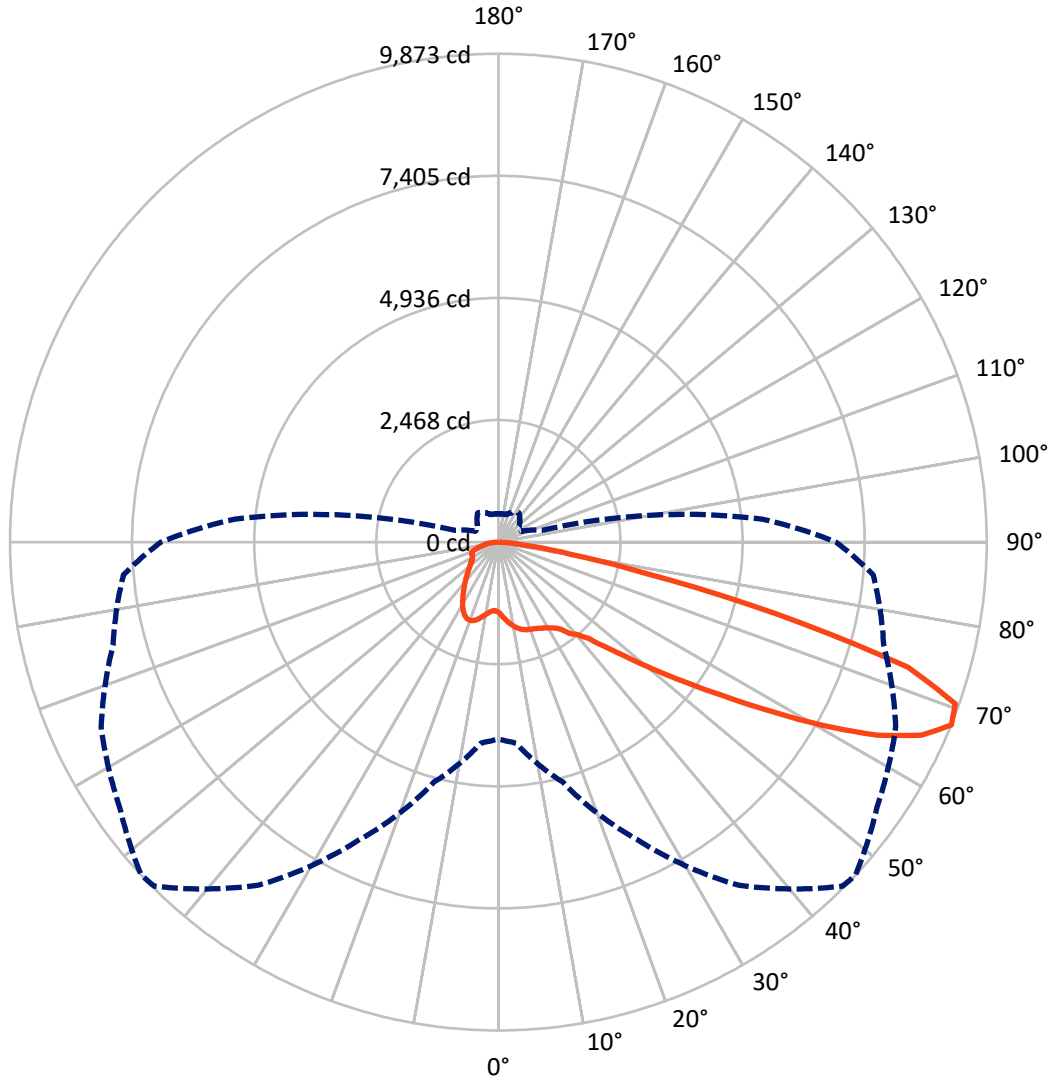
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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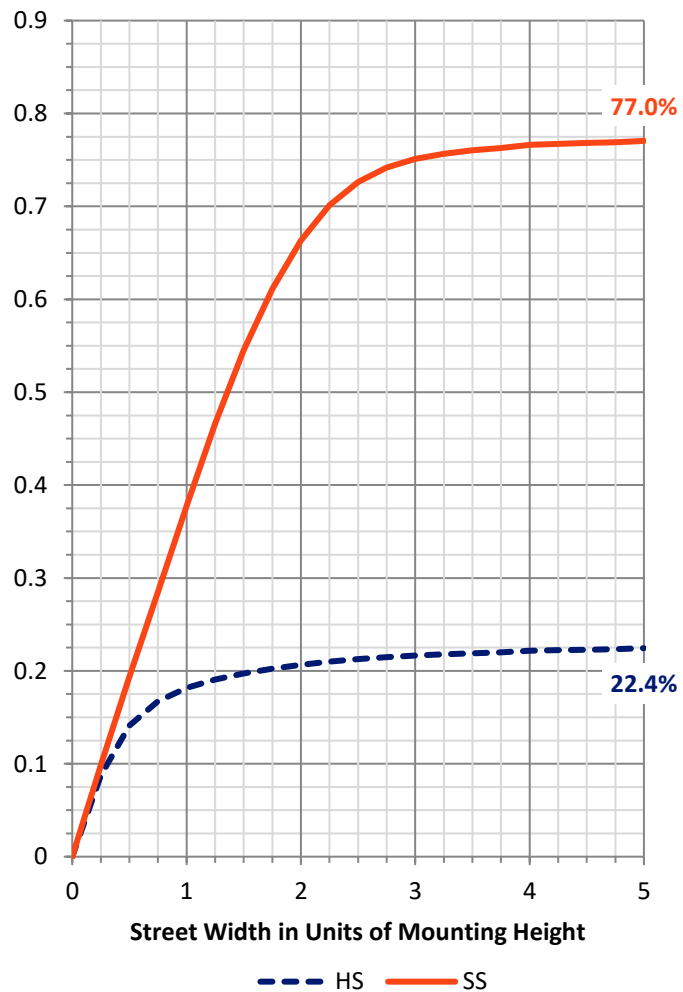
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3270.5	0.0	3270.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11079.8	0.0	11079.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	14350.3	0.0	14350.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	1.0
10°-20°	484.4	3.4
20°-30°	823.3	5.7
30°-40°	1206.1	8.4
40°-50°	1837.6	12.8
50°-60°	3287.8	22.9
60°-70°	4387.3	30.6
70°-80°	1984.0	13.8
80°-90°	194.4	1.4
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°	14350.3	100.0
0°-180°	14350.3	100.0

Coefficient of Utilization



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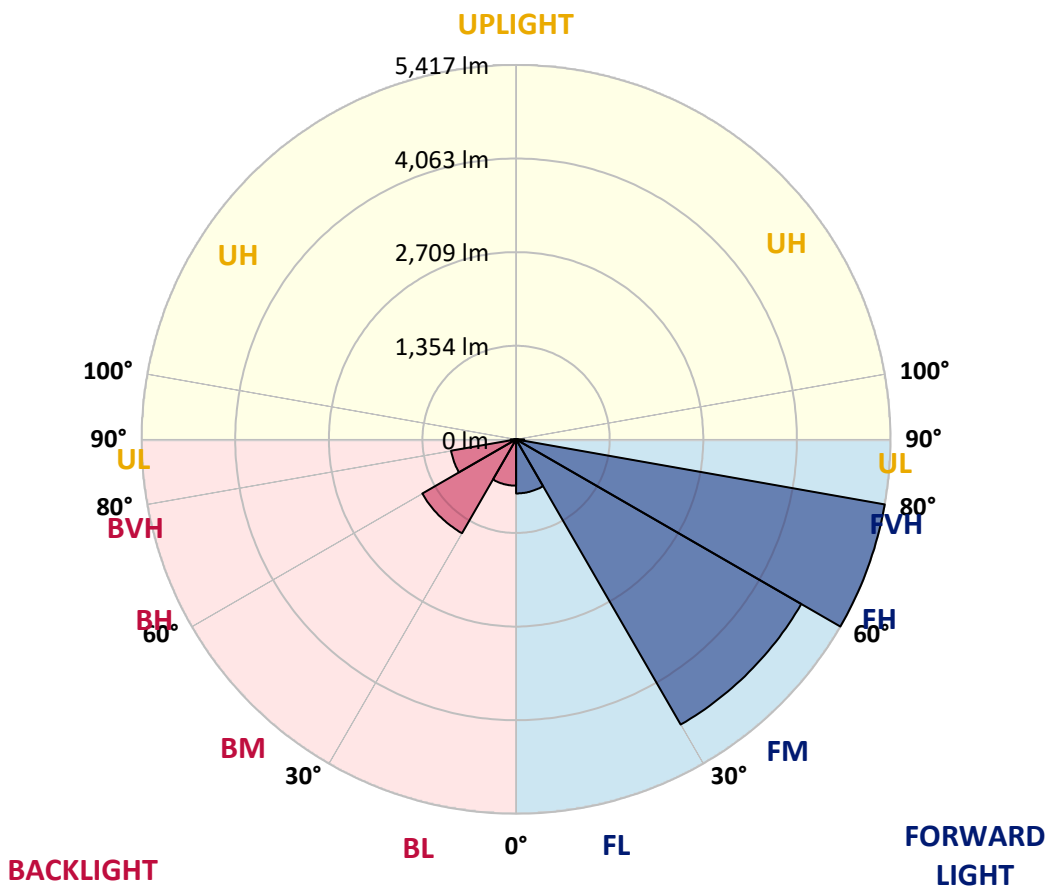
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.6	5.5			
FM (30°-60°)	4764.4	33.2			
FH (60°-80°)	5417.1	37.7			G3/7500
FVH (80°-90°)	115.6	0.8			G2/225
BL (0°-30°)	670.5	4.7	B2/1000		
BM (30°-60°)	1567.1	10.9	B2/2500		
BH (60°-80°)	954.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	78.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6
2.5°	1517.0	1522.2	1521.1	1512.8	1507.7	1498.3	1499.4	1484.8	1463.0	1448.5	1431.9
5°	1650.8	1659.1	1648.8	1635.3	1614.5	1584.4	1581.3	1548.1	1506.6	1477.6	1447.5
7.5°	1767.1	1772.2	1759.8	1737.0	1706.9	1666.4	1659.1	1619.7	1567.8	1522.2	1478.6
10°	1857.3	1863.6	1847.0	1816.9	1777.4	1737.0	1731.8	1691.3	1636.3	1582.4	1527.4
12.5°	1934.1	1936.2	1918.5	1878.1	1835.5	1794.0	1788.8	1751.5	1700.6	1645.7	1585.5
15°	1978.7	1979.8	1958.0	1913.4	1872.9	1836.6	1833.5	1801.3	1754.6	1702.7	1638.4
17.5°	1975.6	1977.7	1962.1	1922.7	1887.4	1865.6	1862.5	1841.8	1805.4	1758.8	1694.4
20°	1937.2	1939.3	1928.9	1903.0	1884.3	1878.1	1879.1	1872.9	1851.1	1812.7	1747.3
22.5°	1907.1	1910.2	1900.9	1882.2	1880.2	1894.7	1897.8	1900.9	1890.5	1856.3	1793.0
25°	1921.7	1926.8	1912.3	1886.4	1890.5	1922.7	1928.9	1939.3	1931.0	1901.9	1847.0
27.5°	2022.3	2025.4	1988.1	1935.2	1922.7	1956.9	1966.3	1982.9	1976.7	1949.7	1907.1
30°	2255.8	2253.7	2173.8	2044.1	1992.2	2005.7	2013.0	2036.8	2038.9	2021.3	1980.8
32.5°	2584.7	2574.3	2450.8	2244.4	2093.9	2060.7	2069.0	2101.2	2125.0	2106.4	2051.4
35°	2932.3	2923.0	2787.0	2545.3	2281.7	2166.5	2157.2	2182.1	2218.4	2166.5	2087.7
37.5°	3263.3	3248.8	3109.7	2810.9	2513.1	2352.3	2338.8	2313.9	2292.1	2192.5	2132.3
40°	3630.6	3614.0	3492.6	3154.3	2768.4	2494.4	2460.2	2361.6	2341.9	2278.6	2248.5
42.5°	4022.8	4022.8	3922.2	3589.1	3076.5	2697.8	2653.2	2504.8	2525.6	2484.0	2448.8
45°	4415.0	4426.5	4346.6	4027.0	3488.5	3081.7	3010.1	2799.5	2849.3	2830.6	2813.0
47.5°	4749.2	4770.9	4755.4	4474.2	3992.7	3548.6	3439.7	3220.8	3327.6	3372.2	3422.1
50°	5109.2	5133.1	5117.5	5006.5	4583.1	4114.1	4016.6	3790.4	3974.1	4107.9	4270.8
52.5°	5643.6	5677.8	5548.1	5505.6	5300.1	4756.4	4669.3	4411.9	4745.0	4967.1	5330.2
55°	6094.9	6093.9	6048.3	6145.8	6070.0	5541.9	5445.4	5211.9	5637.4	5872.9	6404.2
57.5°	6304.5	6329.4	6486.1	6762.1	6913.6	6501.7	6409.3	6170.7	6595.1	6717.5	7291.3
60°	6412.5	6443.6	6746.6	7292.4	7700.1	7549.7	7513.4	7209.3	7448.0	7433.5	8039.4
62.5°	6261.0	6323.2	6809.9	7535.2	8261.5	8602.9	8591.4	8131.8	8173.3	8031.1	8503.2
65°	5565.8	5633.2	6396.9	7413.8	8582.1	9403.9	9407.0	8967.1	8730.5	8321.7	8425.4
67.5°	3980.3	4076.8	5021.0	6633.5	8469.0	9836.6	9872.9	9345.8	8861.2	8064.3	7607.8
70°	2169.7	2240.2	2980.0	4821.8	7450.1	9732.8	9800.3	9163.2	8284.3	6975.9	5856.3
72.5°	985.7	1008.6	1386.3	2645.9	5089.5	8377.7	8659.9	8177.4	6803.6	5152.8	3724.0
75°	451.4	461.7	603.9	1265.9	2659.4	5606.2	5804.4	6090.8	4734.6	3254.0	1941.4
77.5°	283.3	286.4	343.5	579.0	1326.1	2798.4	3007.0	3626.5	2772.5	1610.4	811.4
80°	167.1	170.2	213.7	313.4	622.6	1280.4	1478.6	1434.0	1303.2	695.2	369.4
82.5°	84.0	87.2	123.5	178.5	339.3	509.5	599.7	602.9	485.6	376.7	208.6
85°	30.1	31.1	40.5	70.6	144.2	168.1	187.8	229.3	237.6	218.9	100.6
87.5°	0.0	0.0	1.0	2.1	4.2	16.6	17.6	33.2	69.5	77.8	40.5
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°	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6	1422.6
2.5°	1426.7	1411.2	1406.0	1400.8	1392.5	1389.4	1383.1	1376.9	1376.9	1370.7	1367.6
5°	1434.0	1413.2	1399.7	1393.5	1388.3	1391.4	1391.4	1393.5	1400.8	1396.6	1398.7
7.5°	1459.9	1436.1	1417.4	1412.2	1412.2	1424.6	1432.9	1443.3	1456.8	1458.9	1458.9
10°	1505.6	1477.6	1457.8	1454.7	1459.9	1477.6	1490.0	1502.5	1519.1	1520.1	1522.2
12.5°	1555.4	1527.4	1507.7	1511.8	1517.0	1539.8	1553.3	1563.7	1580.3	1580.3	1579.2
15°	1607.3	1576.1	1559.5	1567.8	1583.4	1609.3	1611.4	1612.5	1620.8	1618.7	1617.6
17.5°	1661.2	1628.0	1615.6	1628.0	1644.6	1657.1	1646.7	1632.2	1629.1	1624.9	1622.8
20°	1714.1	1679.9	1674.7	1684.0	1689.2	1678.9	1646.7	1619.7	1607.3	1601.0	1599.0
22.5°	1759.8	1730.7	1727.6	1727.6	1701.7	1665.4	1617.6	1581.3	1564.7	1556.4	1554.3
25°	1813.7	1786.8	1781.6	1753.6	1687.2	1620.8	1556.4	1523.2	1509.7	1505.6	1506.6
27.5°	1877.0	1858.4	1841.8	1761.9	1645.7	1541.9	1469.3	1454.7	1449.5	1454.7	1457.8
30°	1954.9	1936.2	1898.8	1751.5	1579.2	1439.2	1369.7	1368.6	1384.2	1397.7	1399.7
32.5°	2018.2	2009.9	1948.6	1718.3	1485.9	1326.1	1266.9	1271.1	1299.1	1317.8	1320.9
35°	2068.0	2081.5	1990.1	1663.3	1374.8	1219.2	1172.5	1174.6	1190.1	1216.1	1217.1
37.5°	2138.5	2184.2	2027.5	1579.2	1247.2	1126.8	1084.3	1068.7	1066.7	1073.9	1076.0
40°	2280.7	2349.2	2054.5	1456.8	1123.7	1043.8	996.1	966.0	940.1	920.4	914.1
42.5°	2495.5	2574.3	2070.0	1308.4	1013.7	961.9	907.9	869.5	823.9	782.4	767.8
45°	2889.8	2915.7	2070.0	1150.7	916.2	885.1	831.1	785.5	727.4	678.6	668.2
47.5°	3520.6	3437.6	2072.1	998.2	830.1	817.6	770.9	719.1	654.7	614.3	608.0
50°	4471.1	4179.5	2114.7	871.6	758.5	760.6	726.3	669.3	611.2	581.1	575.9
52.5°	5548.1	5093.6	2228.8	778.2	698.3	713.9	695.2	640.2	588.3	562.4	557.2
55°	6560.8	5934.1	2326.3	711.8	647.5	674.4	673.4	622.6	575.9	549.9	546.8
57.5°	7422.1	6510.0	2311.8	657.8	603.9	638.1	653.7	611.2	567.6	545.8	542.7
60°	7957.5	6815.0	2105.3	608.0	570.7	612.2	642.3	608.0	571.7	566.5	567.6
62.5°	8189.9	6759.0	1709.0	570.7	548.9	599.7	654.7	629.8	610.1	622.6	629.8
65°	7828.8	6277.6	1257.6	542.7	528.1	602.9	683.8	664.1	610.1	618.4	621.5
67.5°	6826.5	5343.7	908.9	514.7	502.2	612.2	725.3	658.9	574.8	574.8	568.6
70°	4919.3	3843.3	659.9	486.6	476.3	598.7	727.4	623.6	534.4	531.3	515.7
72.5°	2960.3	2267.2	514.7	455.5	436.8	531.3	681.7	582.1	494.9	469.0	450.3
75°	1537.7	1136.2	431.6	421.3	374.6	450.3	623.6	517.8	423.3	400.5	390.1
77.5°	658.9	531.3	370.4	375.6	311.3	378.7	503.2	448.2	375.6	346.6	337.2
80°	324.8	301.9	292.6	300.9	249.0	292.6	433.7	392.2	318.5	285.3	271.9
82.5°	185.7	176.4	210.6	213.7	177.4	244.9	366.3	332.0	263.6	227.2	205.4
85°	86.1	92.3	127.6	128.7	110.0	168.1	239.7	186.8	140.1	116.2	111.0
87.5°	34.2	40.5	56.0	55.0	32.2	31.1	20.8	11.4	9.3	8.3	7.3
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)