

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: P633282

Luminaire Tested: GWS-SA2E-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633282
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-SA2E-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14267.8 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

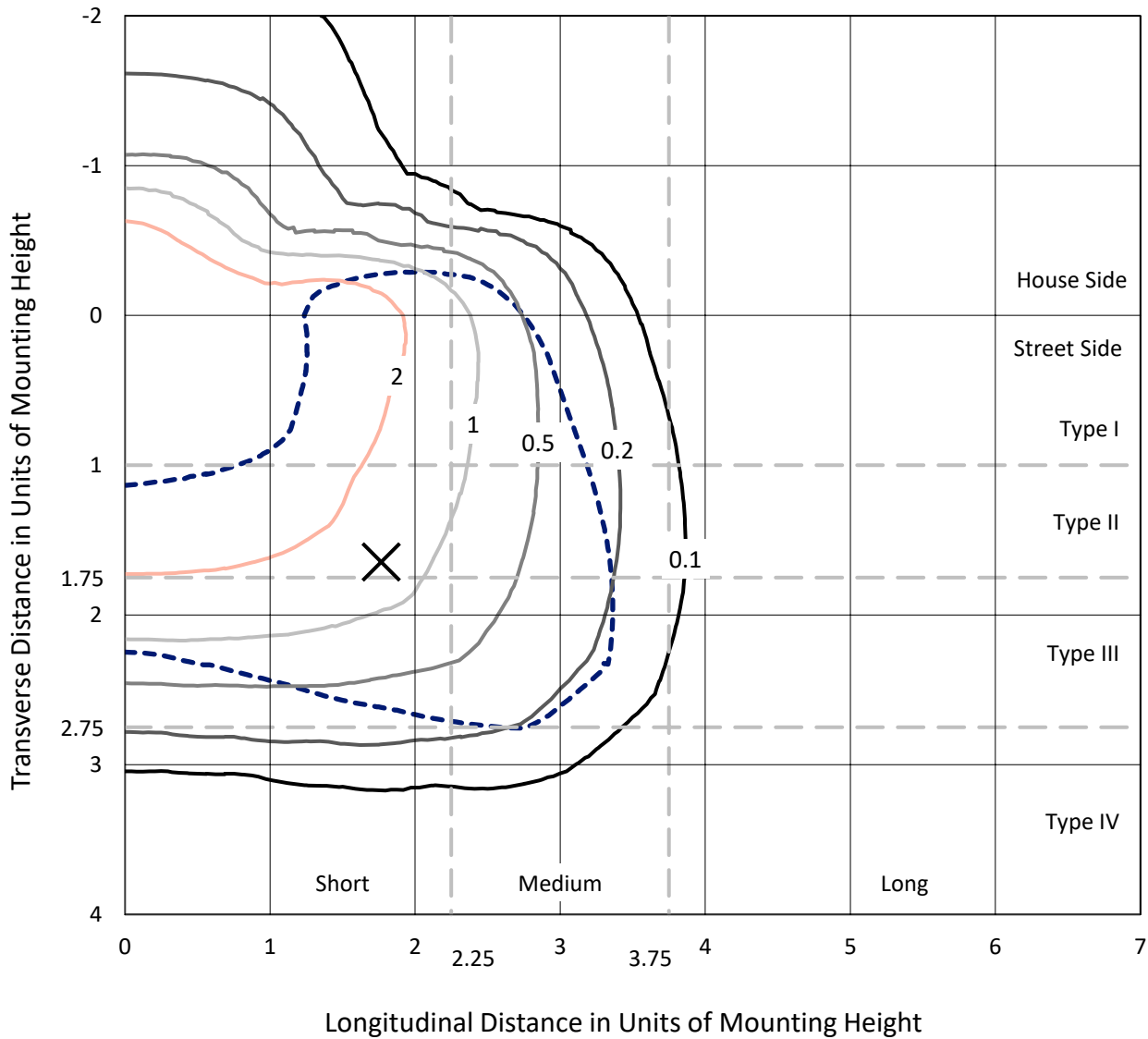
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

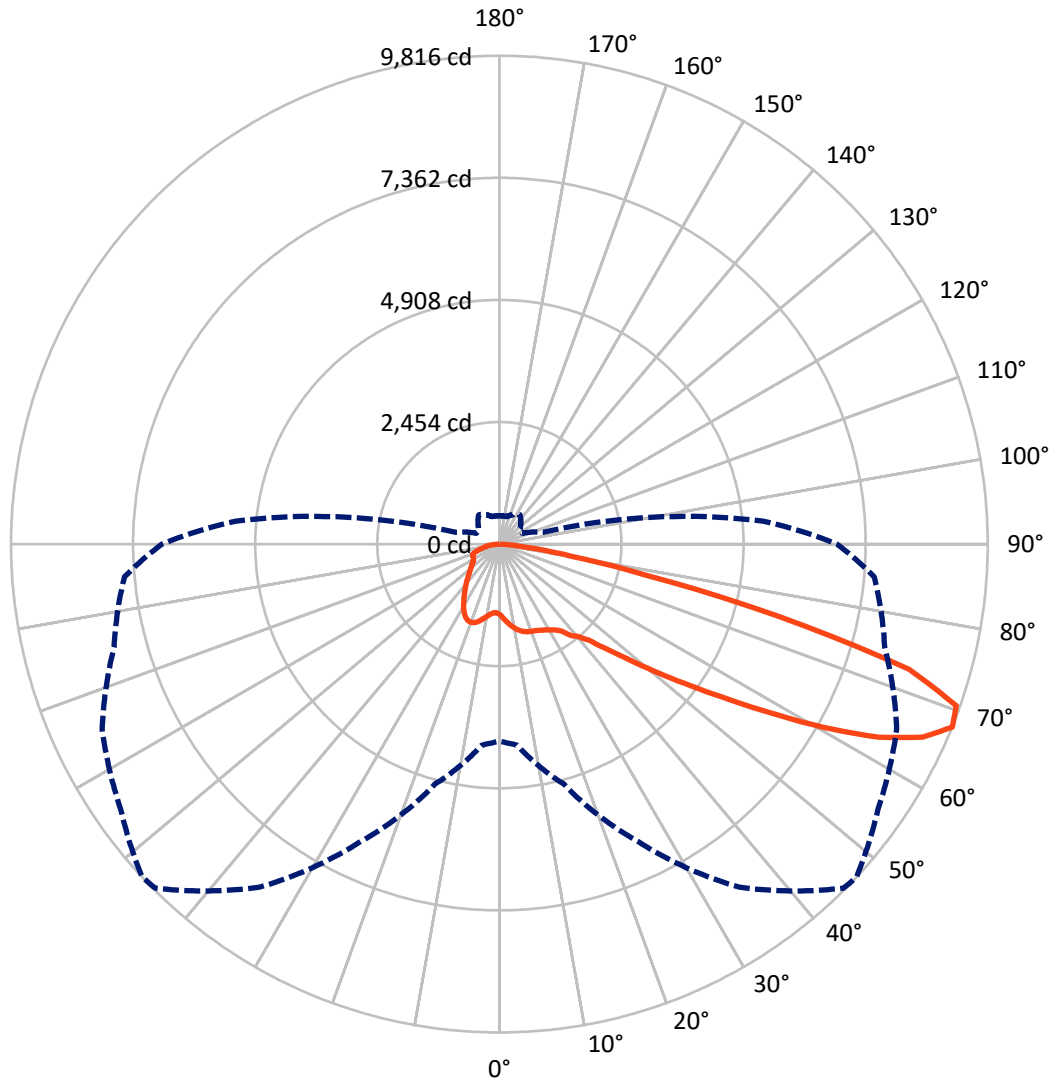
✕ Max cd
 - - - 1/2 Max cd



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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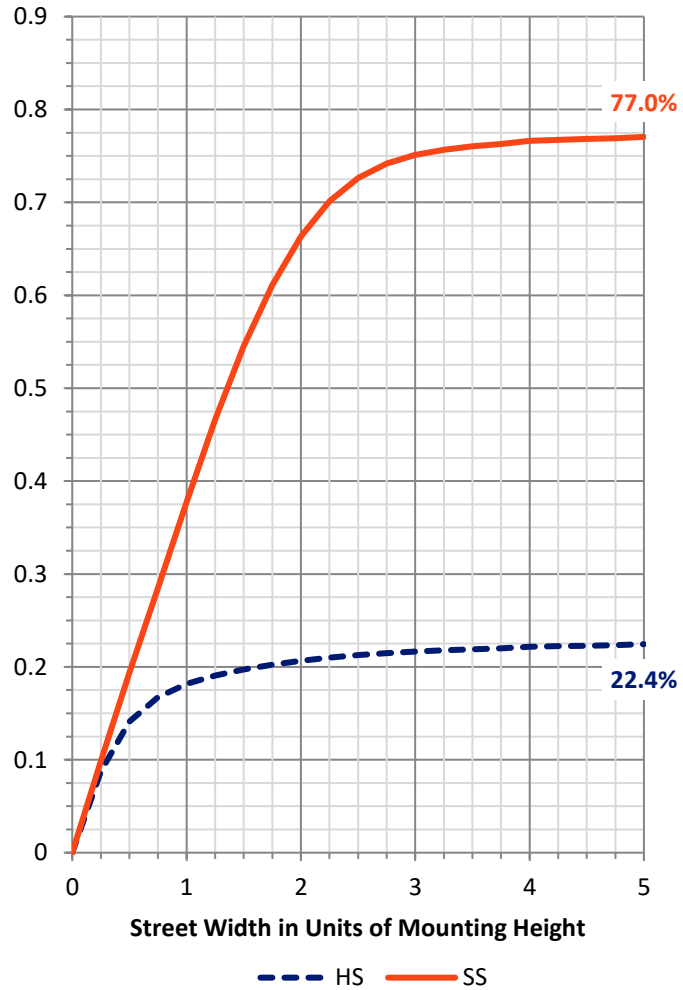
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3251.7	0.0	3251.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11016.1	0.0	11016.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	14267.8	0.0	14267.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.0
10°-20°	481.6	3.4
20°-30°	818.6	5.7
30°-40°	1199.1	8.4
40°-50°	1827.0	12.8
50°-60°	3268.9	22.9
60°-70°	4362.1	30.6
70°-80°	1972.6	13.8
80°-90°	193.3	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°	14267.8	100.0
0°-180°	14267.8	100.0

Coefficient of Utilization



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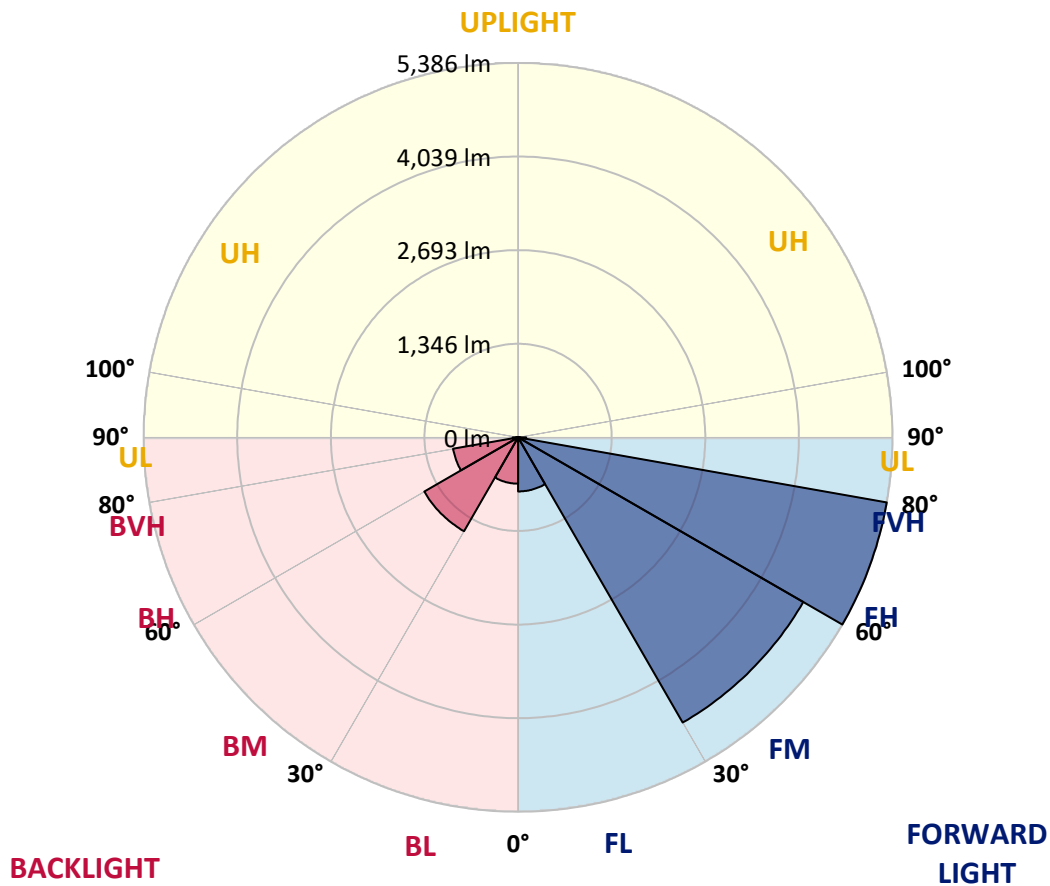
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.1	5.5			
FM (30°-60°)	4737.1	33.2			
FH (60°-80°)	5385.9	37.7			G3/7500
FVH (80°-90°)	115.0	0.8			G2/225
BL (0°-30°)	666.6	4.7	B2/1000		
BM (30°-60°)	1558.1	10.9	B2/2500		
BH (60°-80°)	948.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	78.3	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°	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1508.3	1513.4	1512.4	1504.1	1499.0	1489.7	1490.7	1476.3	1454.6	1440.2	1423.7
5°	1641.4	1649.6	1639.3	1625.9	1605.2	1575.3	1572.2	1539.2	1498.0	1469.1	1439.2
7.5°	1756.9	1762.1	1749.7	1727.0	1697.1	1656.8	1649.6	1610.4	1558.8	1513.4	1470.1
10°	1846.7	1852.8	1836.3	1806.4	1767.2	1727.0	1721.8	1681.6	1626.9	1573.3	1518.6
12.5°	1923.0	1925.1	1907.5	1867.3	1825.0	1783.7	1778.6	1741.4	1690.9	1636.2	1576.4
15°	1967.4	1968.4	1946.7	1902.4	1862.1	1826.0	1822.9	1790.9	1744.5	1692.9	1629.0
17.5°	1964.3	1966.3	1950.8	1911.6	1876.6	1854.9	1851.8	1831.2	1795.1	1748.6	1684.7
20°	1926.1	1928.2	1917.8	1892.0	1873.5	1867.3	1868.3	1862.1	1840.5	1802.3	1737.3
22.5°	1896.2	1899.3	1890.0	1871.4	1869.3	1883.8	1886.9	1890.0	1879.7	1845.6	1782.7
25°	1910.6	1915.8	1901.3	1875.5	1879.7	1911.6	1917.8	1928.2	1919.9	1891.0	1836.3
27.5°	2010.7	2013.8	1976.6	1924.0	1911.6	1945.7	1955.0	1971.5	1965.3	1938.5	1896.2
30°	2242.8	2240.7	2161.3	2032.3	1980.8	1994.2	2001.4	2025.1	2027.2	2009.7	1969.4
32.5°	2569.8	2559.5	2436.8	2231.5	2081.9	2048.9	2057.1	2089.1	2112.8	2094.2	2039.6
35°	2915.4	2906.2	2771.0	2530.6	2268.6	2154.1	2144.8	2169.6	2205.7	2154.1	2075.7
37.5°	3244.5	3230.1	3091.9	2794.7	2498.7	2338.7	2325.3	2300.6	2278.9	2179.9	2120.0
40°	3609.7	3593.2	3472.5	3136.2	2752.4	2480.1	2446.0	2348.0	2328.4	2265.5	2235.6
42.5°	3999.7	3999.7	3899.6	3568.5	3058.8	2682.3	2637.9	2490.4	2511.0	2469.8	2434.7
45°	4389.7	4401.0	4321.6	4003.8	3468.4	3064.0	2992.8	2783.4	2832.9	2814.3	2796.8
47.5°	4721.9	4743.5	4728.0	4448.5	3969.8	3528.2	3419.9	3202.2	3308.5	3352.9	3402.4
50°	5079.8	5103.6	5088.1	4977.7	4556.8	4090.5	3993.5	3768.6	3951.2	4084.3	4246.3
52.5°	5611.1	5645.2	5516.2	5473.9	5269.7	4729.1	4642.4	4386.6	4717.7	4938.5	5299.6
55°	6059.9	6058.9	6013.5	6110.5	6035.1	5510.0	5414.1	5182.0	5604.9	5839.1	6367.3
57.5°	6268.3	6293.1	6448.8	6723.3	6873.9	6464.3	6372.5	6135.2	6557.2	6678.9	7249.4
60°	6375.6	6406.5	6707.8	7250.4	7655.9	7506.3	7470.2	7167.9	7405.2	7390.7	7993.2
62.5°	6225.0	6286.9	6770.7	7491.8	8214.0	8553.4	8542.1	8085.0	8126.3	7985.0	8454.4
65°	5533.8	5600.8	6360.1	7371.1	8532.8	9349.8	9352.9	8915.5	8680.3	8273.8	8377.0
67.5°	3957.4	4053.3	4992.1	6595.3	8420.3	9780.0	9816.1	9292.1	8810.3	8018.0	7564.0
70°	2157.2	2227.3	2962.9	4794.1	7407.2	9676.9	9743.9	9110.5	8236.7	6935.8	5822.6
72.5°	980.1	1002.8	1378.3	2630.7	5060.2	8329.5	8610.1	8130.4	6764.5	5123.2	3702.6
75°	448.8	459.1	600.4	1258.6	2644.1	5574.0	5771.0	6055.8	4707.4	3235.3	1930.2
77.5°	281.6	284.7	341.5	575.7	1318.4	2782.4	2989.7	3605.6	2756.6	1601.1	806.7
80°	166.1	169.2	212.5	311.6	619.0	1273.1	1470.1	1425.7	1295.8	691.2	367.3
82.5°	83.6	86.7	122.8	177.4	337.3	506.5	596.3	599.4	482.8	374.5	207.4
85°	29.9	30.9	40.2	70.2	143.4	167.1	186.7	228.0	236.2	217.7	100.1
87.5°	0.0	0.0	1.0	2.1	4.1	16.5	17.5	33.0	69.1	77.4	40.2
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°	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1418.5	1403.0	1397.9	1392.7	1384.5	1381.4	1375.2	1369.0	1369.0	1362.8	1359.7
5°	1425.7	1405.1	1391.7	1385.5	1380.3	1383.4	1383.4	1385.5	1392.7	1388.6	1390.7
7.5°	1451.5	1427.8	1409.2	1404.1	1404.1	1416.5	1424.7	1435.0	1448.4	1450.5	1450.5
10°	1496.9	1469.1	1449.5	1446.4	1451.5	1469.1	1481.4	1493.8	1510.3	1511.4	1513.4
12.5°	1546.4	1518.6	1499.0	1503.1	1508.3	1531.0	1544.4	1554.7	1571.2	1571.2	1570.2
15°	1598.0	1567.1	1550.6	1558.8	1574.3	1600.1	1602.2	1603.2	1611.4	1609.4	1608.3
17.5°	1651.7	1618.7	1606.3	1618.7	1635.2	1647.5	1637.2	1622.8	1619.7	1615.6	1613.5
20°	1704.3	1670.2	1665.1	1674.4	1679.5	1669.2	1637.2	1610.4	1598.0	1591.8	1589.8
22.5°	1749.7	1720.8	1717.7	1717.7	1691.9	1655.8	1608.3	1572.2	1555.7	1547.5	1545.4
25°	1803.3	1776.5	1771.3	1743.5	1677.5	1611.4	1547.5	1514.5	1501.0	1496.9	1498.0
27.5°	1866.3	1847.7	1831.2	1751.7	1636.2	1533.0	1460.8	1446.4	1441.2	1446.4	1449.5
30°	1943.6	1925.1	1887.9	1741.4	1570.2	1430.9	1361.8	1360.7	1376.2	1389.6	1391.7
32.5°	2006.6	1998.3	1937.4	1708.4	1477.3	1318.4	1259.6	1263.8	1291.6	1310.2	1313.3
35°	2056.1	2069.5	1978.7	1653.7	1366.9	1212.2	1165.8	1167.8	1183.3	1209.1	1210.1
37.5°	2126.2	2171.6	2015.8	1570.2	1240.0	1120.4	1078.1	1062.6	1060.5	1067.8	1069.8
40°	2267.6	2335.7	2042.7	1448.4	1117.3	1037.8	990.4	960.5	934.7	915.1	908.9
42.5°	2481.1	2559.5	2058.1	1300.9	1007.9	956.3	902.7	864.5	819.1	777.9	763.4
45°	2873.1	2898.9	2058.1	1144.1	910.9	880.0	826.4	781.0	723.2	674.7	664.4
47.5°	3500.4	3417.9	2060.2	992.4	825.3	812.9	766.5	714.9	651.0	610.7	604.5
50°	4445.4	4155.5	2102.5	866.6	754.1	756.2	722.2	665.4	607.6	577.7	572.6
52.5°	5516.2	5064.4	2216.0	773.7	694.3	709.8	691.2	636.5	584.9	559.2	554.0
55°	6523.1	5900.0	2313.0	707.7	643.7	670.6	669.5	619.0	572.6	546.8	543.7
57.5°	7379.4	6472.6	2298.5	654.1	600.4	634.5	649.9	607.6	564.3	542.6	539.6
60°	7911.7	6775.9	2093.2	604.5	567.4	608.7	638.6	604.5	568.4	563.3	564.3
62.5°	8142.8	6720.2	1699.1	567.4	545.7	596.3	651.0	626.2	606.6	619.0	626.2
65°	7783.8	6241.5	1250.4	539.6	525.1	599.4	679.9	660.3	606.6	614.9	618.0
67.5°	6787.2	5313.0	903.7	511.7	499.3	608.7	721.1	655.1	571.5	571.5	565.3
70°	4891.0	3821.2	656.1	483.8	473.5	595.3	723.2	620.0	531.3	528.2	512.7
72.5°	2943.3	2254.2	511.7	452.9	434.3	528.2	677.8	578.8	492.1	466.3	447.7
75°	1528.9	1129.7	429.2	418.8	372.4	447.7	620.0	514.8	420.9	398.2	387.9
77.5°	655.1	528.2	368.3	373.5	309.5	376.6	500.3	445.7	373.5	344.6	335.3
80°	322.9	300.2	290.9	299.2	247.6	290.9	431.2	390.0	316.7	283.7	270.3
82.5°	184.7	175.4	209.4	212.5	176.4	243.5	364.2	330.1	262.0	225.9	204.3
85°	85.6	91.8	126.9	127.9	109.4	167.1	238.3	185.7	139.3	115.5	110.4
87.5°	34.0	40.2	55.7	54.7	32.0	30.9	20.6	11.3	9.3	8.3	7.2
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)