

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: P636857

Luminaire Tested: GWS-SA4B-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636857
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-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14679.2 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

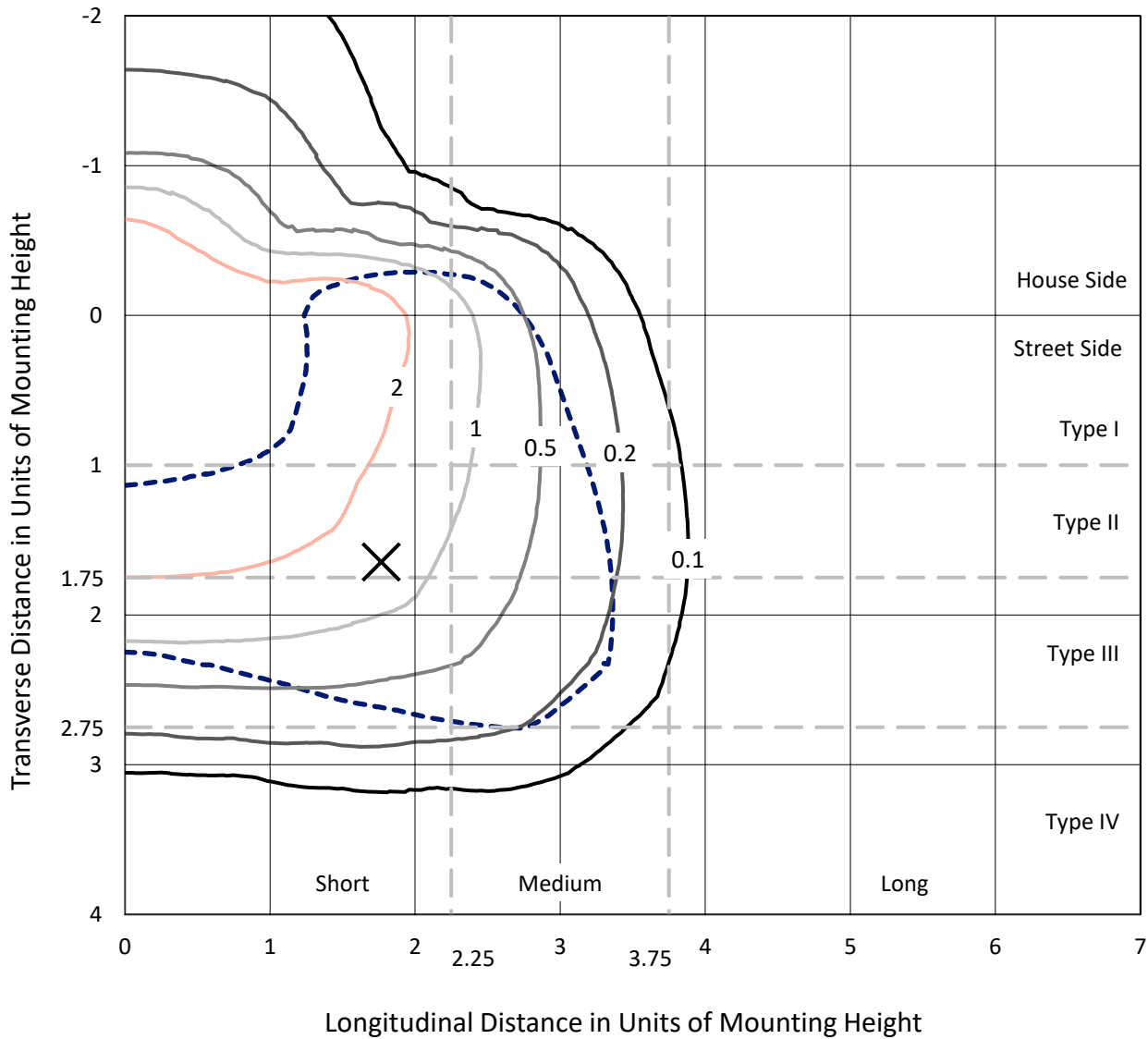
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

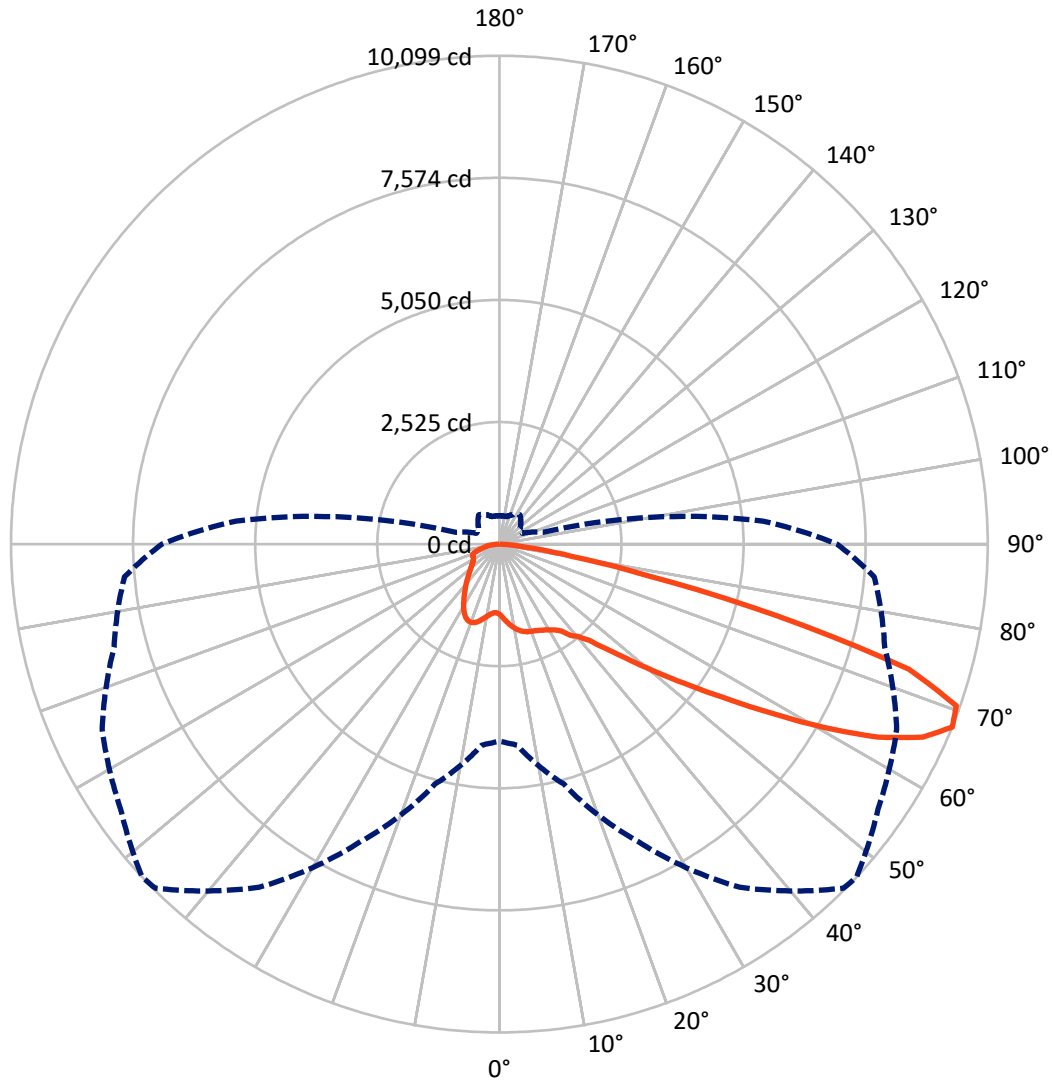
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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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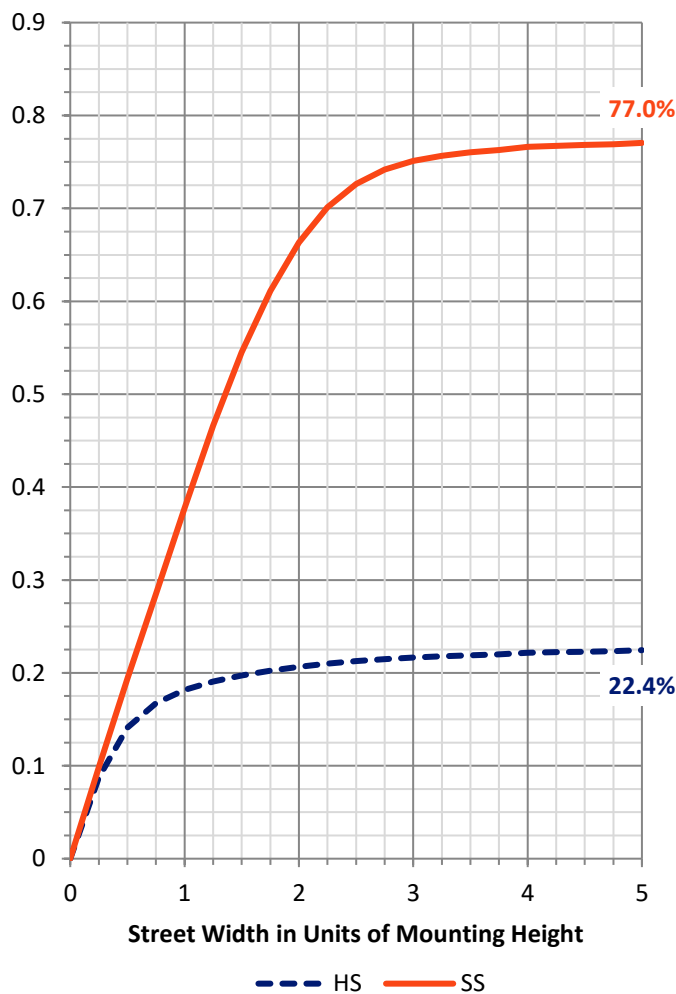
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3345.5	0.0	3345.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11333.7	0.0	11333.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	14679.2	0.0	14679.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.0
10°-20°	495.5	3.4
20°-30°	842.2	5.7
30°-40°	1233.7	8.4
40°-50°	1879.7	12.8
50°-60°	3363.2	22.9
60°-70°	4487.8	30.6
70°-80°	2029.5	13.8
80°-90°	198.8	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°	14679.2	100.0
0°-180°	14679.2	100.0

Coefficient of Utilization



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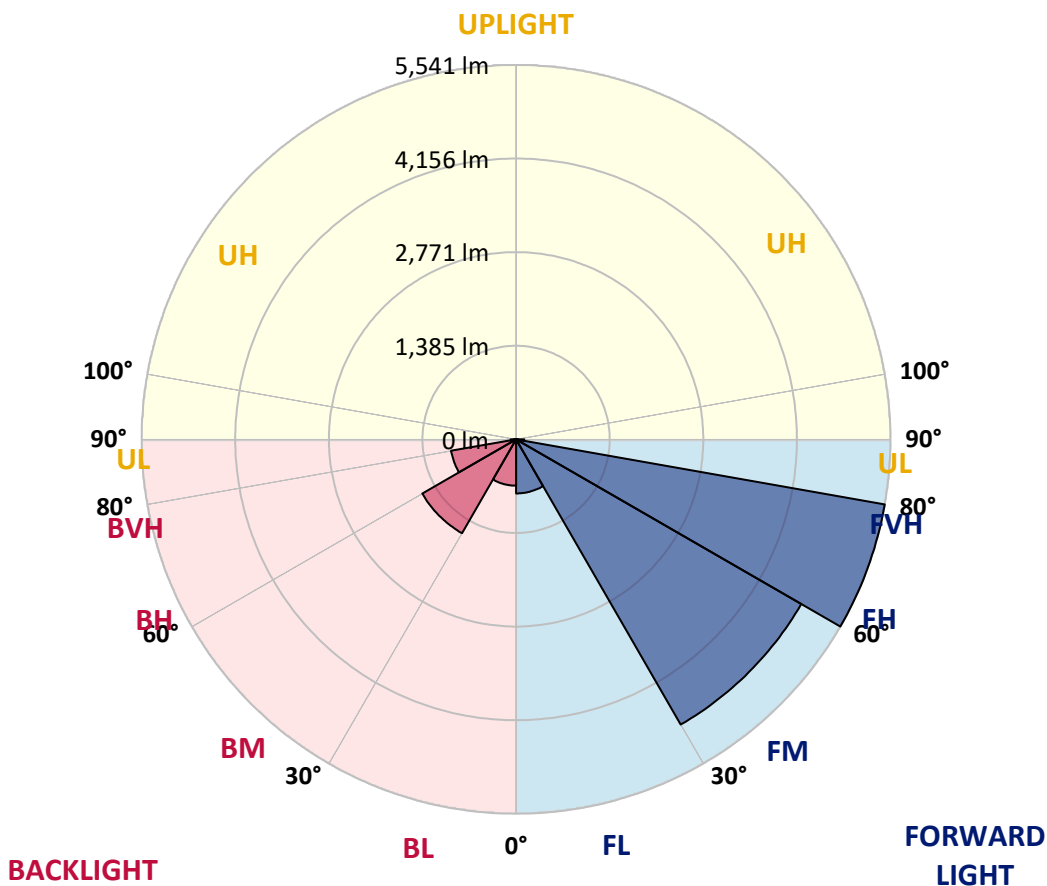
CATALOG NUMBER: GWS-SA4B-750-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.6	5.5			
FM (30°-60°)	4873.6	33.2			
FH (60°-80°)	5541.2	37.7			G3/7500
FVH (80°-90°)	118.3	0.8			G2/225
BL (0°-30°)	685.8	4.7	B2/1000		
BM (30°-60°)	1603.0	10.9	B2/2500		
BH (60°-80°)	976.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	80.6	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°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
2.5°	1551.8	1557.1	1556.0	1547.5	1542.2	1532.7	1533.7	1518.9	1496.6	1481.7	1464.7
5°	1688.7	1697.2	1686.6	1672.8	1651.5	1620.8	1617.6	1583.6	1541.1	1511.4	1480.6
7.5°	1807.6	1812.9	1800.1	1776.8	1746.0	1704.6	1697.2	1656.8	1603.8	1557.1	1512.5
10°	1899.9	1906.3	1889.3	1858.5	1818.2	1776.8	1771.5	1730.1	1673.8	1618.6	1562.4
12.5°	1978.4	1980.6	1962.5	1921.1	1877.6	1835.2	1829.8	1791.6	1739.6	1683.4	1621.8
15°	2024.1	2025.1	2002.9	1957.2	1915.8	1878.7	1875.5	1842.6	1794.8	1741.8	1675.9
17.5°	2020.9	2023.0	2007.1	1966.8	1930.7	1908.4	1905.2	1884.0	1846.8	1799.1	1733.3
20°	1981.6	1983.7	1973.1	1946.6	1927.5	1921.1	1922.2	1915.8	1893.5	1854.3	1787.4
22.5°	1950.8	1954.0	1944.5	1925.4	1923.2	1938.1	1941.3	1944.5	1933.9	1898.8	1834.1
25°	1965.7	1971.0	1956.2	1929.6	1933.9	1966.8	1973.1	1983.7	1975.3	1945.5	1889.3
27.5°	2068.7	2071.8	2033.6	1979.5	1966.8	2001.8	2011.3	2028.3	2022.0	1994.4	1950.8
30°	2307.5	2305.4	2223.6	2090.9	2037.9	2051.7	2059.1	2083.5	2085.6	2067.6	2026.2
32.5°	2643.9	2633.3	2507.0	2295.8	2141.9	2107.9	2116.4	2149.3	2173.7	2154.6	2098.4
35°	2999.5	2990.0	2850.9	2603.6	2334.0	2216.2	2206.6	2232.1	2269.3	2216.2	2135.5
37.5°	3338.1	3323.2	3181.0	2875.3	2570.7	2406.2	2392.4	2366.9	2344.6	2242.7	2181.2
40°	3713.8	3696.8	3572.7	3226.6	2831.8	2551.6	2516.6	2415.7	2395.6	2330.8	2300.0
42.5°	4115.0	4115.0	4012.1	3671.4	3147.0	2759.6	2714.0	2562.2	2583.4	2541.0	2504.9
45°	4516.2	4527.9	4446.2	4119.3	3568.4	3152.3	3079.1	2863.6	2914.6	2895.5	2877.4
47.5°	4858.0	4880.3	4864.4	4576.7	4084.2	3630.0	3518.5	3294.6	3403.9	3449.5	3500.5
50°	5226.3	5250.7	5234.8	5121.2	4688.2	4208.4	4108.7	3877.3	4065.1	4202.1	4368.7
52.5°	5772.9	5808.0	5675.3	5631.8	5421.6	4865.4	4776.3	4513.1	4853.8	5080.9	5452.4
55°	6234.6	6233.6	6186.9	6286.6	6209.2	5668.9	5570.2	5331.4	5766.6	6007.5	6550.9
57.5°	6449.0	6474.5	6634.8	6917.1	7072.1	6650.7	6556.2	6312.1	6746.2	6871.5	7458.4
60°	6559.4	6591.3	6901.2	7459.5	7876.6	7722.7	7685.6	7374.6	7618.7	7603.8	8223.7
62.5°	6404.5	6468.1	6965.9	7707.9	8450.8	8800.0	8788.4	8318.2	8360.6	8215.2	8698.1
65°	5693.3	5762.3	6543.5	7583.7	8778.8	9619.4	9622.6	9172.6	8930.6	8512.4	8618.5
67.5°	4071.5	4170.2	5136.1	6785.5	8663.1	10062.0	10099.2	9560.0	9064.3	8249.2	7782.2
70°	2219.4	2291.6	3048.3	4932.3	7620.8	9955.9	10024.9	9373.2	8474.2	7135.8	5990.5
72.5°	1008.3	1031.7	1418.0	2706.6	5206.1	8569.7	8858.4	8364.9	6959.6	5270.9	3809.3
75°	461.7	472.3	617.7	1294.9	2720.4	5734.7	5937.4	6230.4	4843.1	3328.5	1985.9
77.5°	289.8	292.9	351.3	592.3	1356.5	2862.6	3075.9	3709.6	2836.0	1647.3	830.0
80°	170.9	174.1	218.6	320.5	636.8	1309.8	1512.5	1466.8	1333.1	711.1	377.9
82.5°	86.0	89.2	126.3	182.6	347.1	521.1	613.5	616.7	496.7	385.3	213.3
85°	30.8	31.8	41.4	72.2	147.5	171.9	192.1	234.6	243.1	224.0	103.0
87.5°	0.0	0.0	1.1	2.1	4.2	17.0	18.0	34.0	71.1	79.6	41.4
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°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
2.5°	1459.4	1443.5	1438.2	1432.9	1424.4	1421.2	1414.8	1408.5	1408.5	1402.1	1398.9
5°	1466.8	1445.6	1431.8	1425.5	1420.1	1423.3	1423.3	1425.5	1432.9	1428.6	1430.8
7.5°	1493.4	1469.0	1449.9	1444.6	1444.6	1457.3	1465.8	1476.4	1490.2	1492.3	1492.3
10°	1540.1	1511.4	1491.3	1488.1	1493.4	1511.4	1524.2	1536.9	1553.9	1554.9	1557.1
12.5°	1591.0	1562.4	1542.2	1546.5	1551.8	1575.1	1588.9	1599.5	1616.5	1616.5	1615.4
15°	1644.1	1612.3	1595.3	1603.8	1619.7	1646.2	1648.3	1649.4	1657.9	1655.8	1654.7
17.5°	1699.3	1665.3	1652.6	1665.3	1682.3	1695.0	1684.4	1669.6	1666.4	1662.1	1660.0
20°	1753.4	1718.4	1713.1	1722.6	1728.0	1717.3	1684.4	1656.8	1644.1	1637.7	1635.6
22.5°	1800.1	1770.4	1767.2	1767.2	1740.7	1703.5	1654.7	1617.6	1600.6	1592.1	1590.0
25°	1855.3	1827.7	1822.4	1793.8	1725.8	1657.9	1592.1	1558.1	1544.3	1540.1	1541.1
27.5°	1920.1	1901.0	1884.0	1802.2	1683.4	1577.2	1502.9	1488.1	1482.8	1488.1	1491.3
30°	1999.7	1980.6	1942.4	1791.6	1615.4	1472.2	1401.0	1400.0	1415.9	1429.7	1431.8
32.5°	2064.4	2055.9	1993.3	1757.7	1519.9	1356.5	1296.0	1300.2	1328.9	1348.0	1351.2
35°	2115.4	2129.2	2035.8	1701.4	1406.3	1247.1	1199.4	1201.5	1217.4	1244.0	1245.0
37.5°	2187.5	2234.2	2074.0	1615.4	1275.8	1152.7	1109.2	1093.2	1091.1	1098.5	1100.7
40°	2332.9	2403.0	2101.6	1490.2	1149.5	1067.8	1018.9	988.2	961.6	941.5	935.1
42.5°	2552.7	2633.3	2117.5	1338.4	1037.0	983.9	928.7	889.4	842.7	800.3	785.4
45°	2956.0	2982.5	2117.5	1177.1	937.2	905.4	850.2	803.5	744.0	694.2	683.5
47.5°	3601.3	3516.4	2119.6	1021.1	849.1	836.4	788.6	735.5	669.7	628.3	622.0
50°	4573.6	4275.3	2163.1	891.6	775.9	778.0	743.0	684.6	625.2	594.4	589.1
52.5°	5675.3	5210.4	2279.9	796.0	714.3	730.2	711.1	654.9	601.8	575.3	570.0
55°	6711.2	6070.1	2379.6	728.1	662.3	689.9	688.8	636.8	589.1	562.5	559.4
57.5°	7592.2	6659.2	2364.8	672.9	617.7	652.8	668.7	625.2	580.6	558.3	555.1
60°	8139.8	6971.2	2153.6	622.0	583.8	626.2	657.0	622.0	584.8	579.5	580.6
62.5°	8377.6	6913.9	1748.1	583.8	561.5	613.5	669.7	644.3	624.1	636.8	644.3
65°	8008.2	6421.4	1286.4	555.1	540.3	616.7	699.5	679.3	624.1	632.6	635.8
67.5°	6982.9	5466.2	929.8	526.5	513.7	626.2	741.9	674.0	588.0	588.0	581.6
70°	5032.1	3931.4	675.0	497.8	487.2	612.4	744.0	637.9	546.6	543.4	527.5
72.5°	3028.2	2319.1	526.5	466.0	446.8	543.4	697.3	595.4	506.3	479.8	460.6
75°	1573.0	1162.2	441.5	430.9	383.2	460.6	637.9	529.6	433.0	409.7	399.1
77.5°	674.0	543.4	378.9	384.2	318.4	387.4	514.8	458.5	384.2	354.5	345.0
80°	332.2	308.9	299.3	307.8	254.7	299.3	443.7	401.2	325.8	291.9	278.1
82.5°	190.0	180.4	215.5	218.6	181.5	250.5	374.7	339.6	269.6	232.4	210.2
85°	88.1	94.5	130.6	131.6	112.5	171.9	245.2	191.1	143.3	118.9	113.6
87.5°	35.0	41.4	57.3	56.3	32.9	31.8	21.2	11.7	9.6	8.5	7.4
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)