

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: P639055

Luminaire Tested: GWS-SA5B-722-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12633 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

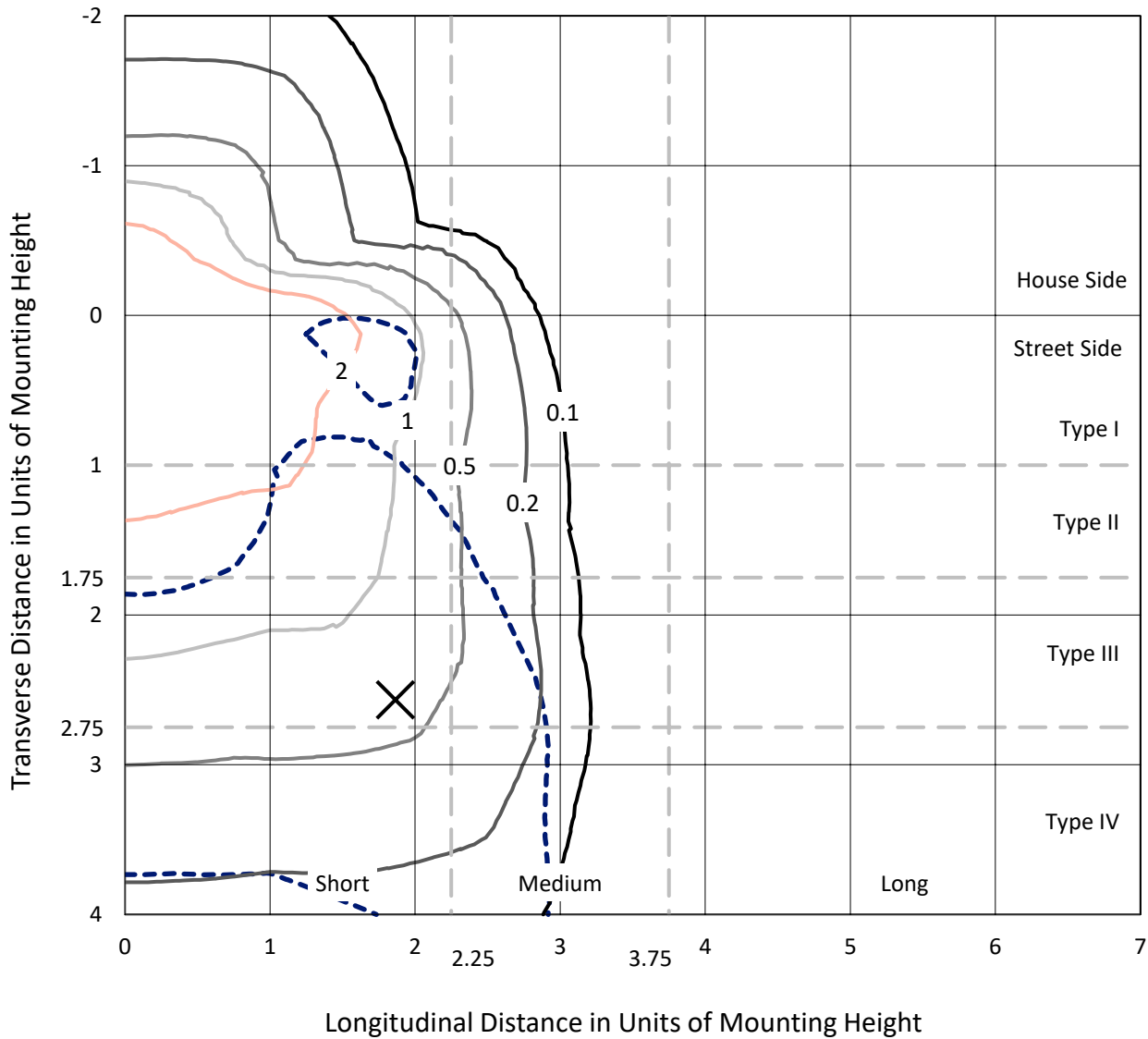
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

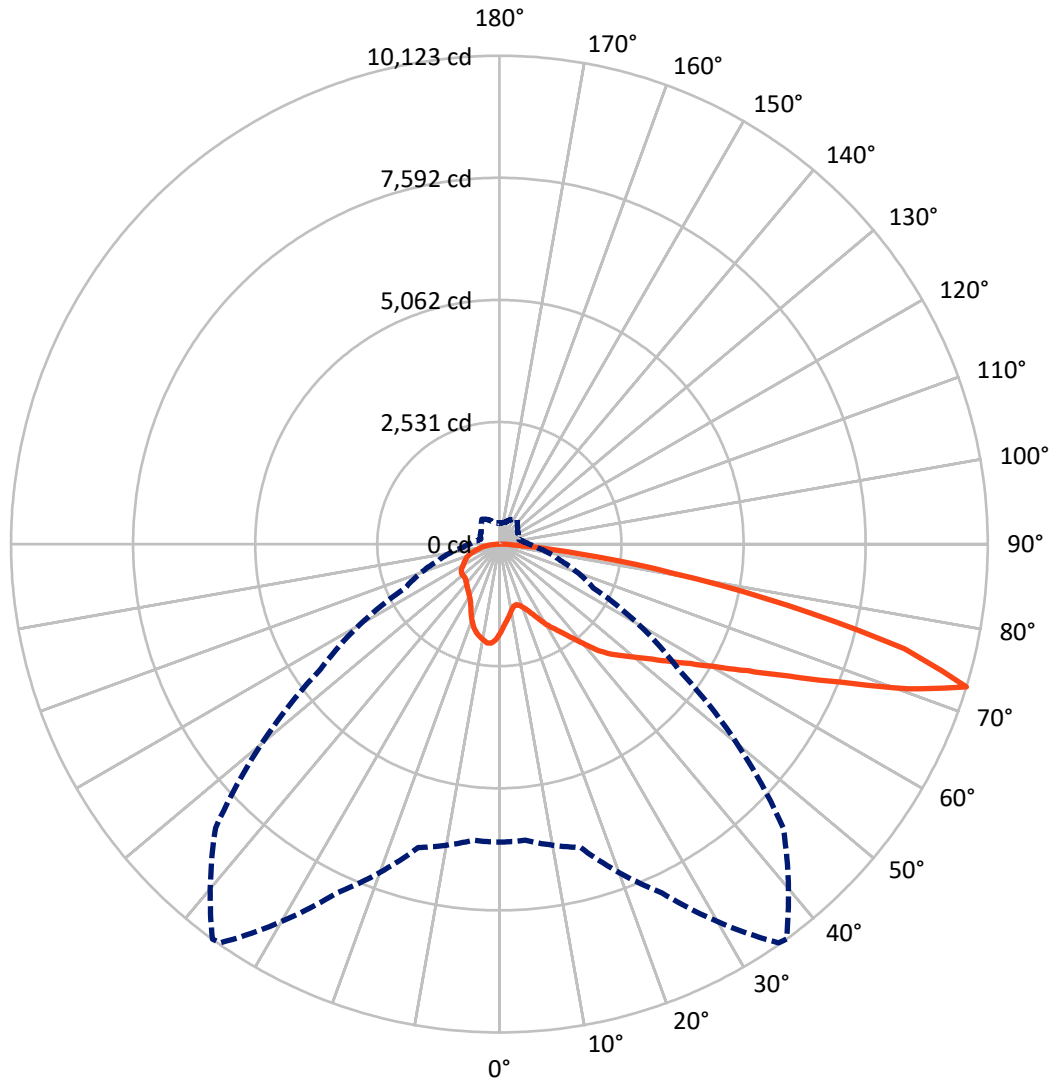
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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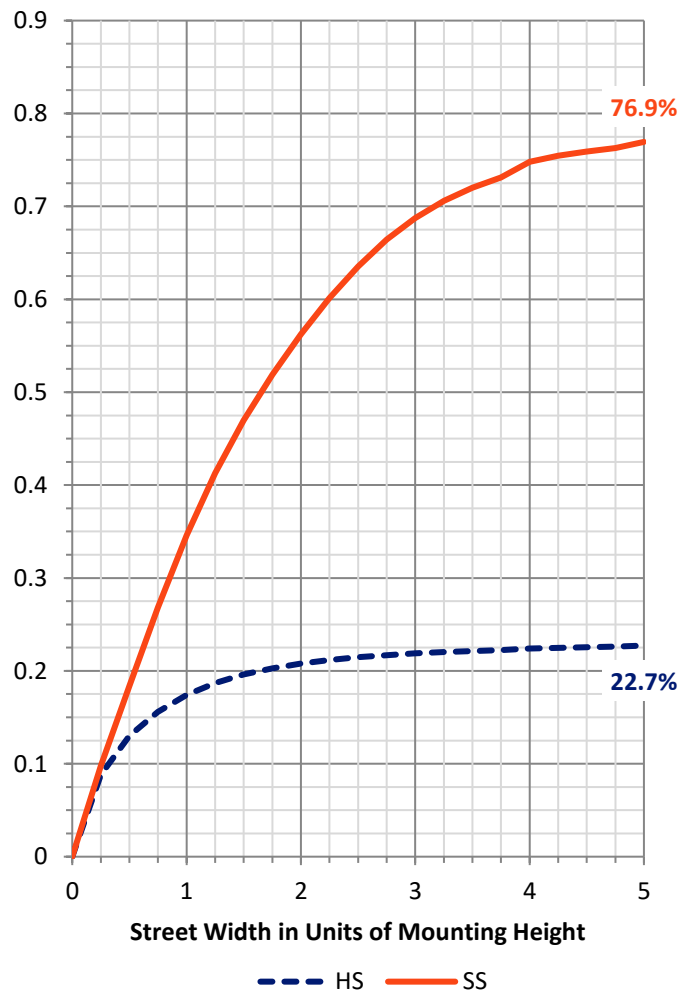
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.4	0.0	2912.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	9720.5	0.0	9720.5
	% Fixture	76.9	0.0	76.9
Total	Lumens	12633.0	0.0	12633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.4
10°-20°	487.6	3.9
20°-30°	807.5	6.4
30°-40°	1209.3	9.6
40°-50°	1764.3	14.0
50°-60°	2511.2	19.9
60°-70°	3172.7	25.1
70°-80°	2260.8	17.9
80°-90°	246.8	2.0
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°	12633.0	100.0
0°-180°	12633.0	100.0

Coefficient of Utilization



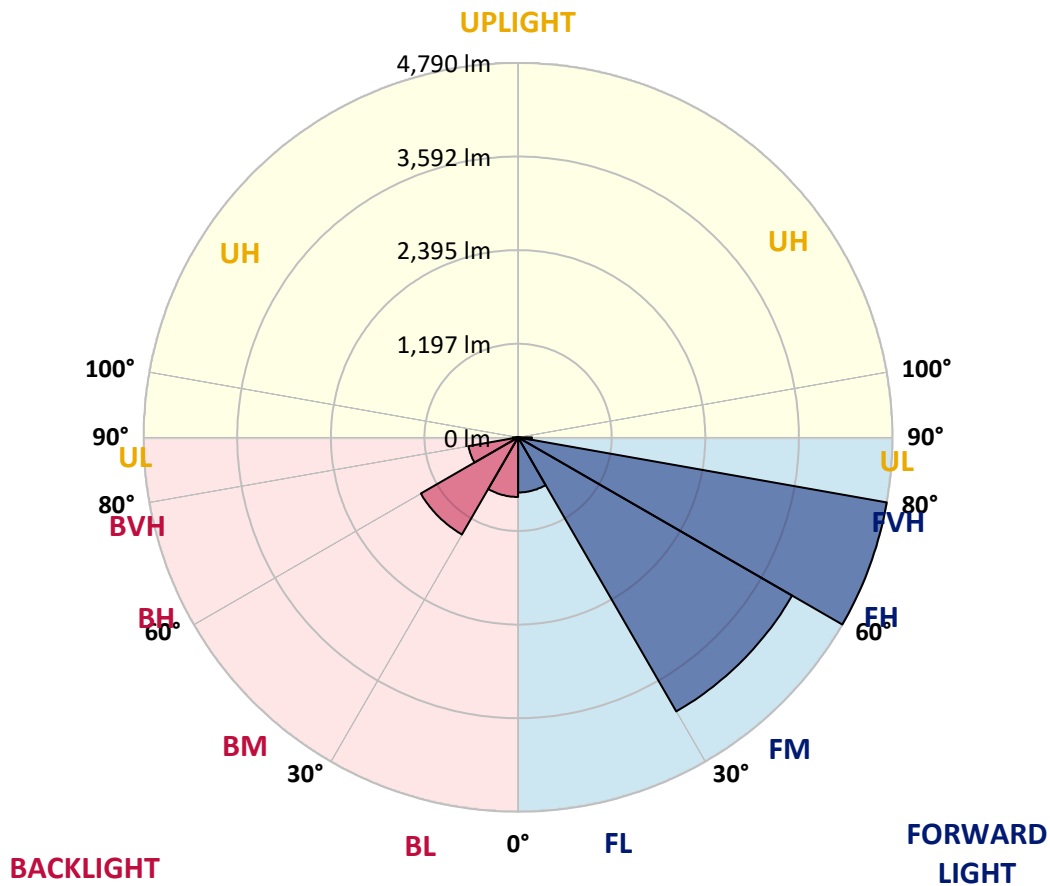
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.3	5.6			
FM (30°-60°)	4048.6	32.0			
FH (60°-80°)	4789.6	37.9			G2/5000
FVH (80°-90°)	177.1	1.4			G2/225
BL (0°-30°)	762.7	6.0	B2/1000		
BM (30°-60°)	1436.2	11.4	B2/2500		
BH (60°-80°)	643.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	69.7	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9
2.5°	1686.7	1683.9	1678.3	1695.1	1712.0	1710.1	1733.6	1756.1	1780.5	1805.8	1839.5
5°	1551.7	1549.8	1545.1	1570.4	1595.8	1594.8	1633.3	1669.8	1719.5	1773.9	1841.4
7.5°	1416.7	1412.0	1418.5	1450.4	1486.1	1489.8	1542.3	1602.3	1674.5	1756.1	1851.7
10°	1297.6	1296.7	1299.5	1335.1	1388.5	1392.3	1459.8	1543.2	1638.9	1747.6	1875.1
12.5°	1266.7	1264.8	1257.3	1275.1	1315.4	1321.0	1395.1	1497.3	1614.5	1752.3	1907.0
15°	1317.3	1312.6	1286.4	1277.9	1297.6	1302.3	1365.1	1470.1	1600.4	1760.8	1947.3
17.5°	1404.5	1401.7	1352.0	1317.3	1330.4	1334.2	1381.0	1465.4	1596.7	1777.6	1997.0
20°	1532.0	1519.8	1442.0	1389.5	1389.5	1395.1	1423.2	1486.1	1601.4	1798.3	2053.3
22.5°	1700.8	1676.4	1566.7	1495.4	1476.7	1484.2	1496.4	1537.6	1621.1	1833.0	2123.6
25°	1890.1	1867.6	1737.3	1637.0	1610.8	1613.6	1603.3	1610.8	1664.2	1880.8	2210.8
27.5°	2091.7	2076.7	1938.0	1810.5	1769.2	1769.2	1732.6	1714.8	1724.2	1935.2	2308.3
30°	2271.7	2251.1	2133.9	1994.2	1939.8	1939.8	1870.5	1832.0	1809.5	2001.7	2438.6
32.5°	2366.4	2354.2	2276.4	2169.5	2103.0	2092.7	2032.7	1987.7	1935.2	2100.2	2614.9
35°	2490.2	2487.4	2440.5	2357.1	2272.7	2257.7	2216.4	2180.8	2089.9	2223.0	2849.3
37.5°	2645.8	2641.1	2633.6	2584.0	2482.7	2479.9	2443.3	2400.2	2282.1	2400.2	3133.4
40°	2820.2	2811.8	2802.4	2801.5	2740.5	2730.2	2727.4	2678.6	2513.6	2614.0	3429.6
42.5°	3060.2	3031.2	2943.0	2982.4	3027.4	3018.1	3053.7	2980.5	2802.4	2868.0	3710.0
45°	3355.6	3284.3	3109.9	3121.2	3234.6	3253.4	3377.1	3359.3	3120.2	3161.5	4005.3
47.5°	3532.8	3470.9	3308.7	3299.3	3440.9	3464.3	3733.4	3767.2	3462.5	3515.0	4370.0
50°	3678.1	3635.0	3501.8	3515.0	3665.0	3688.4	4086.9	4159.1	3785.0	3876.9	4793.8
52.5°	3853.4	3791.5	3688.4	3750.3	3934.1	3962.2	4479.7	4557.5	4075.6	4274.4	5232.6
55°	3951.9	3926.6	3928.4	4023.1	4253.8	4292.2	4891.3	4878.2	4341.9	4614.7	5562.6
57.5°	4178.8	4169.4	4255.6	4291.3	4626.9	4676.6	5302.9	5190.4	4583.8	4878.2	5721.1
60°	4579.1	4555.7	4630.7	4685.1	5088.2	5158.5	5762.3	5496.1	4747.9	5074.2	5667.6
62.5°	5141.7	5112.6	5115.4	5201.7	5706.1	5780.1	6273.3	5751.1	4798.5	5104.2	5329.2
65°	5841.1	5798.9	5751.1	5868.3	6526.5	6588.3	6829.3	5936.7	4677.6	4815.4	4622.2
67.5°	6579.0	6544.3	6488.0	6733.7	7588.7	7626.2	7452.8	5920.8	4294.1	4042.8	3242.1
70°	6622.1	6630.5	6896.8	7785.6	8975.4	8984.8	8042.5	5600.1	3477.5	2620.5	1615.4
72.5°	6177.7	6163.6	6510.5	7977.8	10091.1	10123.0	8321.0	4536.9	2148.9	1307.0	757.6
75°	5017.9	5042.3	5407.0	6980.2	8649.1	8677.2	6783.3	2674.9	1021.0	639.4	484.7
77.5°	2160.2	2296.1	3015.2	4917.6	6194.6	6107.4	3496.2	1083.8	544.7	455.7	371.3
80°	623.5	676.9	1074.5	2338.3	3711.9	3646.2	1383.9	406.0	379.7	342.2	266.3
82.5°	201.6	223.1	393.8	931.0	1663.3	1661.4	525.0	240.0	248.5	232.5	171.6
85°	56.3	64.7	120.9	282.2	514.7	504.4	151.9	113.4	132.2	134.1	85.3
87.5°	0.0	0.0	0.9	1.9	1.9	1.9	3.8	16.9	38.4	48.8	34.7
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°	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9	1848.9
2.5°	1860.1	1857.3	1895.8	1925.8	1953.9	1972.7	1978.3	1982.0	1989.5	1993.3	1989.5
5°	1873.3	1887.3	1951.1	1998.0	2035.5	2058.0	2058.9	2057.0	2062.7	2058.0	2055.2
7.5°	1901.4	1928.6	2009.2	2058.9	2083.3	2084.2	2061.7	2035.5	2022.3	2011.1	2007.3
10°	1938.9	1979.2	2067.4	2100.2	2092.7	2058.0	2008.3	1967.0	1943.6	1926.7	1923.0
12.5°	1990.5	2035.5	2118.9	2118.0	2071.1	2009.2	1951.1	1901.4	1867.6	1848.0	1841.4
15°	2039.2	2096.4	2156.4	2112.4	2038.3	1963.3	1888.3	1821.7	1776.7	1745.8	1740.1
17.5°	2099.2	2160.2	2183.6	2094.5	1997.0	1900.5	1800.1	1712.9	1652.0	1615.4	1612.6
20°	2168.6	2223.0	2196.7	2063.6	1943.6	1817.0	1681.1	1583.6	1517.9	1482.3	1485.1
22.5°	2249.2	2288.6	2200.5	2021.4	1869.5	1698.9	1547.0	1453.2	1409.2	1390.4	1391.4
25°	2335.5	2360.8	2193.9	1964.2	1756.1	1554.5	1409.2	1366.0	1362.3	1357.6	1359.5
27.5°	2437.7	2432.1	2174.2	1883.6	1603.3	1386.7	1312.6	1323.9	1338.9	1337.0	1338.9
30°	2574.6	2521.1	2148.9	1772.0	1421.4	1246.0	1255.4	1287.3	1307.0	1308.9	1314.5
32.5°	2731.2	2619.6	2108.6	1620.1	1247.9	1167.3	1202.0	1240.4	1263.8	1268.5	1276.0
35°	2917.7	2732.1	2037.3	1430.7	1123.2	1120.4	1152.3	1178.5	1203.8	1205.7	1205.7
37.5°	3132.4	2844.6	1923.9	1221.7	1046.3	1080.1	1110.1	1115.7	1122.3	1116.7	1119.5
40°	3329.3	2953.4	1762.6	1031.3	983.5	1044.5	1069.8	1051.0	1030.4	1016.3	1019.1
42.5°	3494.3	3027.4	1548.9	898.2	919.8	1012.6	1032.3	993.8	953.5	927.3	931.0
45°	3680.0	3095.9	1297.6	808.2	865.4	990.1	1003.2	953.5	901.9	862.6	856.9
47.5°	3935.9	3235.6	1074.5	745.4	826.9	977.9	999.5	931.9	864.4	805.4	798.8
50°	4251.9	3433.4	887.9	704.1	809.1	971.3	998.5	908.5	827.9	758.5	753.8
52.5°	4596.9	3626.5	750.1	672.2	791.3	951.6	993.8	882.3	789.4	714.4	708.8
55°	4826.6	3702.5	657.2	642.2	762.2	920.7	975.1	856.9	731.3	662.9	654.4
57.5°	4894.1	3605.0	592.5	615.0	724.7	877.6	939.4	803.5	695.7	641.3	634.7
60°	4777.9	3359.3	552.2	592.5	683.5	822.3	877.6	772.6	667.6	618.8	614.1
62.5°	4449.7	2980.5	521.3	569.1	641.3	764.1	838.2	735.1	636.6	598.2	591.6
65°	3789.7	2444.3	496.0	544.7	601.0	708.8	795.1	697.6	602.9	573.8	566.3
67.5°	2650.5	1716.7	468.8	515.7	560.7	655.4	750.1	662.9	568.2	546.6	539.1
70°	1295.7	910.4	436.0	481.9	517.5	601.0	705.1	620.7	522.2	510.0	499.7
72.5°	616.9	509.1	397.5	436.0	458.5	528.8	630.0	559.7	467.8	441.6	423.8
75°	413.5	361.9	346.9	381.6	387.2	443.5	540.0	482.9	412.5	382.5	367.5
77.5°	313.1	276.6	291.6	322.5	311.3	364.7	444.4	430.3	372.2	345.0	337.5
80°	220.3	201.6	231.6	250.3	241.9	310.3	400.3	368.5	306.6	276.6	271.0
82.5°	138.8	135.0	170.6	173.5	176.3	245.6	329.1	289.7	238.1	196.0	181.9
85°	69.4	76.9	102.2	102.2	101.3	126.6	187.5	163.1	128.4	102.2	99.4
87.5°	23.4	32.8	44.1	35.6	27.2	21.6	24.4	30.0	31.9	30.9	30.9
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)