

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: P636564

Luminaire Tested: GWS-SA4B-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8888.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

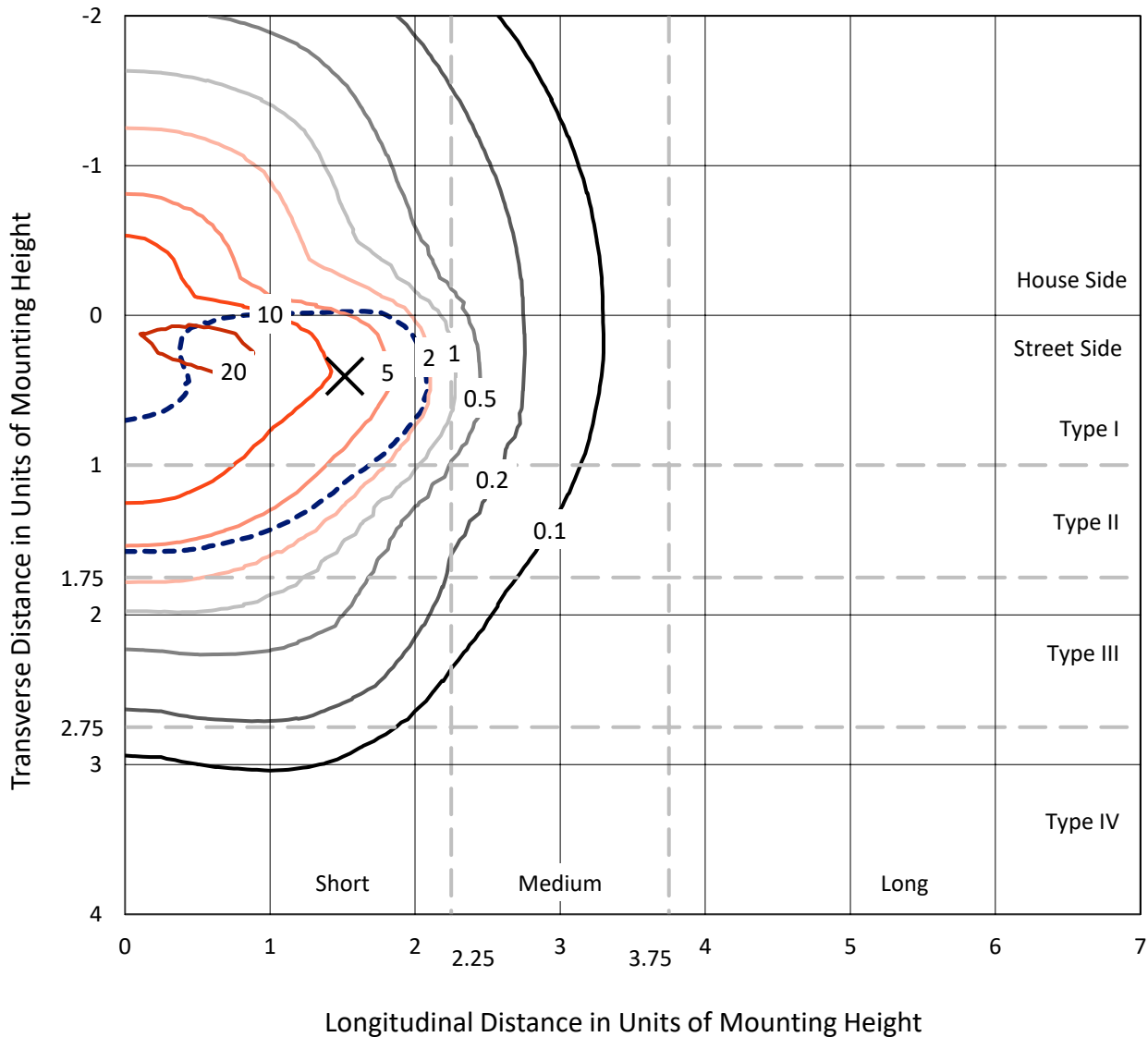
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

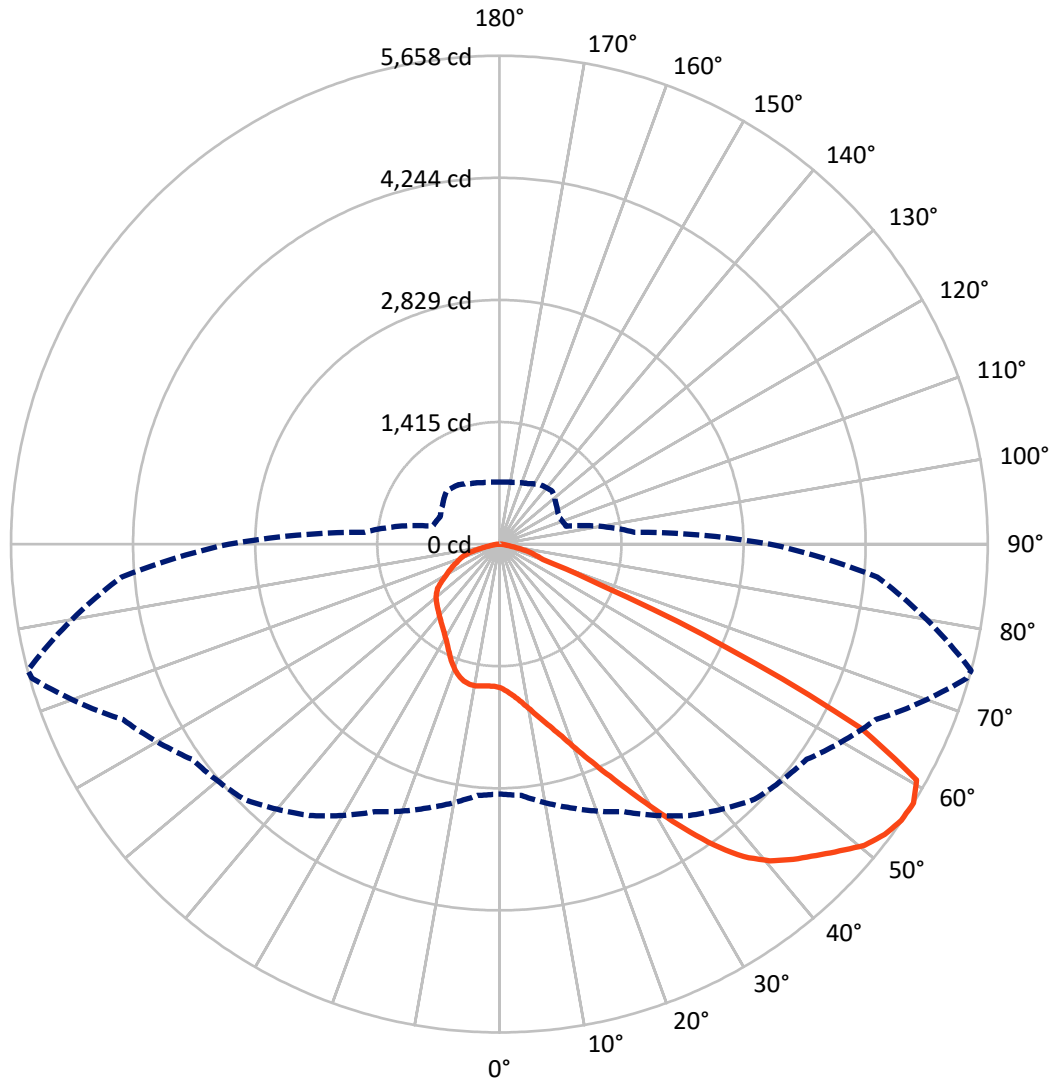
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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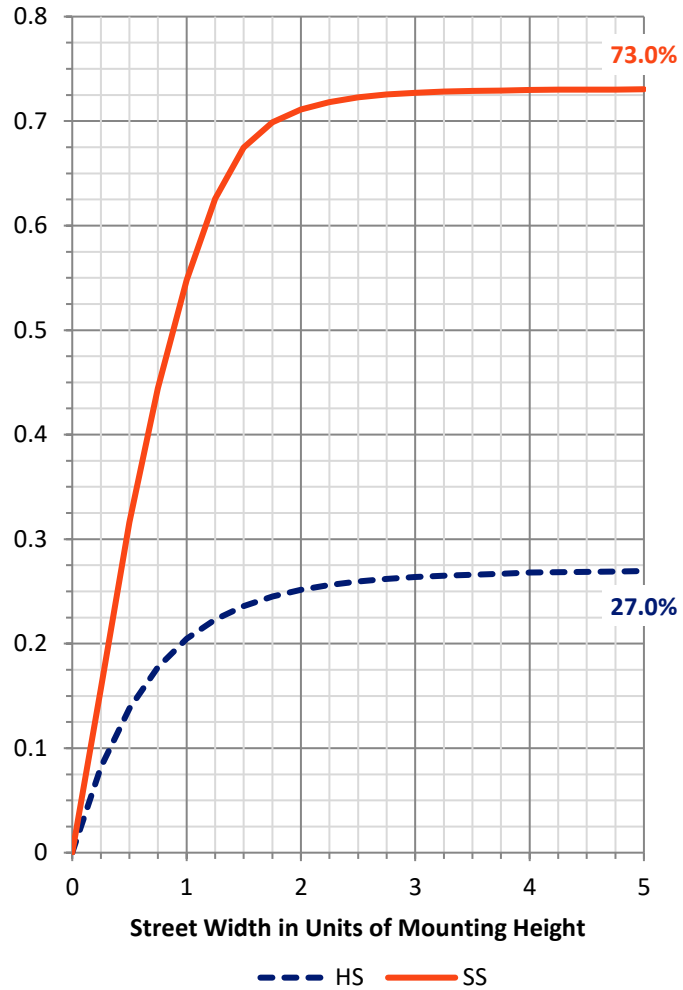
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2404.6	0.0	2404.6
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	6484.3	0.0	6484.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	8888.9	0.0	8888.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.9
10°-20°	530.4	6.0
20°-30°	940.6	10.6
30°-40°	1439.9	16.2
40°-50°	2004.9	22.6
50°-60°	2297.2	25.8
60°-70°	1180.4	13.3
70°-80°	297.2	3.3
80°-90°	31.8	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°	8888.9	100.0
0°-180°	8888.9	100.0

Coefficient of Utilization



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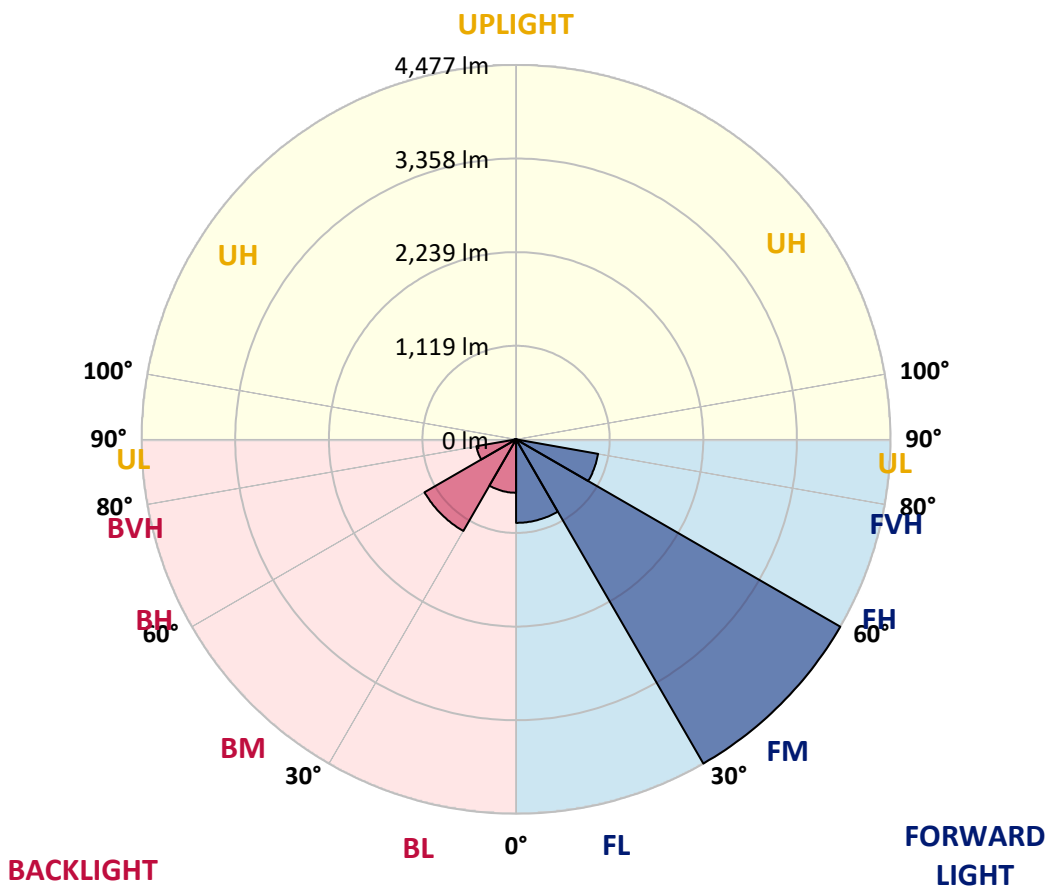
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.7	11.2			
FM (30°-60°)	4477.4	50.4			
FH (60°-80°)	996.4	11.2			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	638.8	7.2	B2/1000		
BM (30°-60°)	1264.6	14.2	B2/2500		
BH (60°-80°)	481.2	5.4	B1/500		G1/500
BVH (80°-90°)	20.0	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°	74°	75°	85°
0°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7
2.5°	1788.5	1793.1	1788.5	1796.1	1780.9	1774.0	1757.2	1731.9	1712.1	1709.0	1686.8
5°	1927.6	1937.5	1931.4	1928.4	1907.7	1892.4	1867.2	1816.8	1775.5	1769.4	1725.8
7.5°	2017.0	2023.9	2023.9	2026.2	2018.6	2001.0	1974.2	1914.6	1856.5	1847.3	1781.6
10°	2046.8	2052.2	2062.1	2081.2	2096.5	2101.9	2084.3	2027.0	1955.9	1946.7	1855.0
12.5°	2053.7	2059.8	2075.1	2110.3	2152.3	2190.5	2193.6	2151.5	2072.1	2062.1	1939.8
15°	2066.7	2072.8	2093.5	2137.0	2198.9	2272.3	2317.4	2288.4	2200.5	2189.8	2036.1
17.5°	2065.2	2072.1	2102.6	2160.7	2244.0	2350.3	2437.4	2449.6	2358.7	2340.3	2145.4
20°	2061.4	2067.5	2100.3	2171.4	2274.6	2420.6	2578.0	2641.5	2543.6	2526.8	2273.1
22.5°	2091.9	2098.8	2124.0	2182.9	2290.7	2474.9	2708.0	2860.8	2763.0	2739.3	2419.8
25°	2160.7	2170.7	2185.9	2226.4	2319.7	2523.0	2841.0	3109.2	3009.1	2980.8	2579.6
27.5°	2267.0	2279.2	2300.6	2319.7	2384.7	2584.1	2973.2	3387.4	3287.3	3257.5	2748.5
30°	2396.9	2412.9	2440.5	2453.5	2497.8	2674.3	3116.9	3674.1	3616.0	3574.7	2938.8
32.5°	2576.5	2598.7	2624.7	2628.5	2655.2	2811.1	3259.0	3958.4	3957.6	3928.6	3155.1
35°	2810.4	2834.1	2839.4	2844.8	2857.8	2999.2	3431.0	4217.5	4317.6	4284.0	3390.5
37.5°	3065.7	3100.1	3108.5	3084.8	3103.1	3225.4	3624.4	4425.4	4631.0	4595.1	3618.3
40°	3338.5	3352.3	3375.2	3337.8	3360.7	3484.5	3813.9	4558.4	4864.9	4826.6	3797.9
42.5°	3534.2	3559.4	3593.8	3580.1	3593.0	3706.2	3946.9	4622.6	5031.5	4993.3	3927.0
45°	3746.7	3754.3	3776.5	3773.4	3781.1	3886.5	4042.5	4650.9	5180.5	5146.1	4037.1
47.5°	3931.6	3943.1	3957.6	3940.8	3924.0	3992.8	4120.4	4675.3	5352.5	5311.2	4152.5
50°	4109.7	4119.7	4137.2	4088.3	4025.6	4043.2	4158.6	4708.9	5513.8	5484.7	4243.5
52.5°	4142.6	4153.3	4235.8	4245.8	4165.5	4103.6	4225.9	4783.1	5608.5	5590.2	4276.3
55°	3729.1	3748.2	3912.5	4101.3	4299.3	4279.4	4333.7	4822.1	5646.0	5650.6	4335.2
57.5°	2894.5	2922.0	3162.0	3421.1	3837.6	4182.3	4347.4	4812.1	5633.0	5658.2	4395.6
60°	1898.6	1914.6	2198.9	2489.4	2921.2	3398.1	3891.1	4633.3	5517.6	5553.5	4380.3
62.5°	1146.5	1164.8	1393.3	1613.5	1868.0	2186.7	2639.2	3723.7	4624.9	4705.1	3508.2
65°	800.2	824.7	1024.9	1206.1	1294.0	1228.3	1336.8	2079.7	2881.5	2915.1	2143.9
67.5°	580.1	596.9	761.3	976.8	1073.9	867.5	661.1	921.0	1255.0	1267.2	884.3
70°	379.9	399.0	548.0	743.7	876.7	703.2	494.5	498.3	528.1	534.3	513.6
72.5°	208.7	220.1	338.6	493.7	518.2	420.4	386.0	414.3	434.9	434.9	440.2
75°	107.8	117.7	138.3	162.8	196.4	230.1	278.2	320.2	342.4	343.9	341.6
77.5°	55.0	58.9	74.1	80.3	87.9	102.4	133.0	170.4	190.3	198.0	196.4
80°	26.0	27.5	31.3	36.7	45.1	57.3	71.8	85.6	97.8	99.4	107.8
82.5°	13.8	15.3	16.8	19.9	24.5	30.6	42.0	50.4	58.1	59.6	66.5
85°	5.4	6.1	6.9	7.6	10.7	13.0	17.6	23.7	29.0	29.0	34.4
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	3.1	3.8	5.4	5.4	9.2
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°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7
2.5°	1681.5	1659.3	1649.4	1633.3	1620.3	1605.8	1594.4	1586.0	1580.6	1577.5	1574.5
5°	1709.0	1675.4	1648.6	1616.5	1594.4	1573.0	1555.4	1543.2	1537.0	1532.5	1529.4
7.5°	1751.8	1706.7	1656.3	1606.6	1567.6	1533.2	1511.1	1498.1	1489.6	1486.6	1484.3
10°	1810.7	1748.0	1664.7	1586.0	1527.9	1490.4	1475.1	1469.0	1469.8	1468.2	1467.5
12.5°	1877.2	1791.6	1662.4	1549.3	1485.1	1462.9	1463.7	1473.6	1485.1	1488.1	1488.9
15°	1949.0	1834.4	1640.2	1501.9	1451.4	1453.7	1473.6	1497.3	1518.7	1527.1	1528.6
17.5°	2027.0	1870.3	1599.7	1449.9	1423.9	1448.4	1485.1	1524.0	1555.4	1569.1	1573.0
20°	2114.1	1900.9	1542.4	1398.7	1397.9	1438.4	1491.9	1543.2	1582.9	1601.2	1604.3
22.5°	2206.6	1920.0	1472.1	1351.3	1371.2	1425.4	1486.6	1540.1	1582.1	1600.5	1604.3
25°	2299.8	1926.1	1394.9	1307.7	1343.7	1404.8	1460.6	1503.4	1543.2	1559.2	1562.3
27.5°	2387.0	1908.5	1321.5	1270.3	1318.4	1374.2	1411.7	1434.6	1462.1	1474.4	1476.7
30°	2475.6	1873.3	1259.6	1240.5	1290.2	1332.2	1349.0	1350.5	1361.2	1361.2	1362.8
32.5°	2565.0	1821.4	1205.3	1211.4	1255.0	1282.5	1284.8	1267.2	1254.2	1232.8	1232.1
35°	2668.2	1768.6	1161.0	1178.6	1213.7	1230.5	1223.7	1190.0	1158.7	1123.5	1122.0
37.5°	2763.8	1714.4	1123.5	1144.9	1167.1	1179.3	1163.3	1122.8	1096.8	1060.9	1055.5
40°	2842.5	1665.4	1087.6	1109.8	1120.5	1131.2	1105.2	1072.3	1076.2	1056.3	1055.5
42.5°	2888.3	1618.1	1054.0	1070.8	1077.7	1085.3	1062.4	1037.9	1058.6	1043.3	1044.1
45°	2922.0	1576.8	1023.4	1029.5	1046.3	1057.8	1036.4	1008.9	1013.5	954.6	940.9
47.5°	2960.2	1553.9	994.4	988.3	1018.1	1037.9	1005.1	965.3	937.8	879.7	874.4
50°	3000.7	1545.4	963.8	947.0	982.9	1002.0	963.8	914.1	878.2	846.9	843.8
52.5°	3014.5	1544.7	925.6	897.3	933.2	960.0	927.9	877.4	834.6	804.1	802.5
55°	3068.7	1566.8	876.7	829.3	862.9	917.9	894.2	821.6	787.2	773.5	772.0
57.5°	3132.2	1570.7	799.5	755.1	801.8	866.7	836.9	774.3	736.8	720.0	718.5
60°	3106.2	1476.7	716.9	698.6	749.8	818.6	791.1	736.8	693.2	677.2	675.7
62.5°	2367.1	1042.5	656.5	649.7	694.0	749.0	743.7	687.1	645.8	634.4	632.9
65°	1423.9	732.2	598.5	597.7	629.0	681.8	688.6	642.8	599.2	583.2	583.2
67.5°	703.9	560.2	532.7	528.9	548.8	586.2	615.3	577.8	541.1	525.8	523.6
70°	497.6	493.7	484.6	473.9	477.7	493.0	505.2	473.9	434.9	419.6	416.6
72.5°	430.3	431.1	425.0	416.6	413.5	402.8	392.1	369.2	345.5	329.4	330.9
75°	334.0	335.5	339.4	336.3	327.9	316.4	305.0	275.9	256.8	241.5	238.5
77.5°	194.9	202.5	214.8	211.7	213.2	197.2	192.6	164.3	146.7	136.0	133.8
80°	110.1	114.6	120.0	123.8	119.2	112.4	102.4	87.1	81.8	74.1	72.6
82.5°	66.5	71.1	73.4	76.4	74.9	65.7	58.1	48.2	43.6	39.7	39.0
85°	33.6	36.7	39.0	40.5	35.9	29.8	26.8	21.4	18.3	16.1	16.1
87.5°	8.4	9.2	10.7	9.2	8.4	3.8	3.1	0.8	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)