

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: P631588

Luminaire Tested: GWS-SA2B-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4611.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

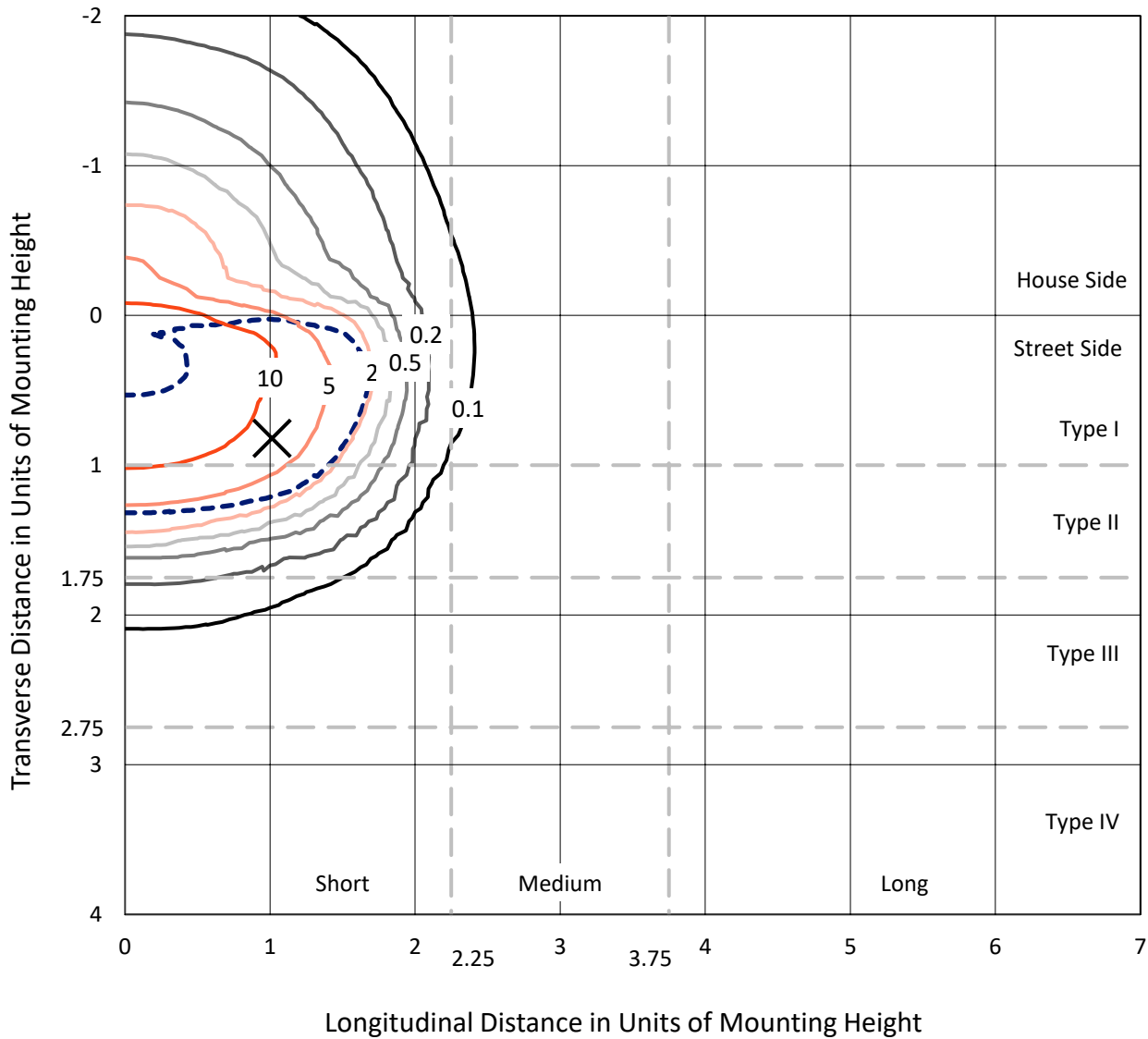
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

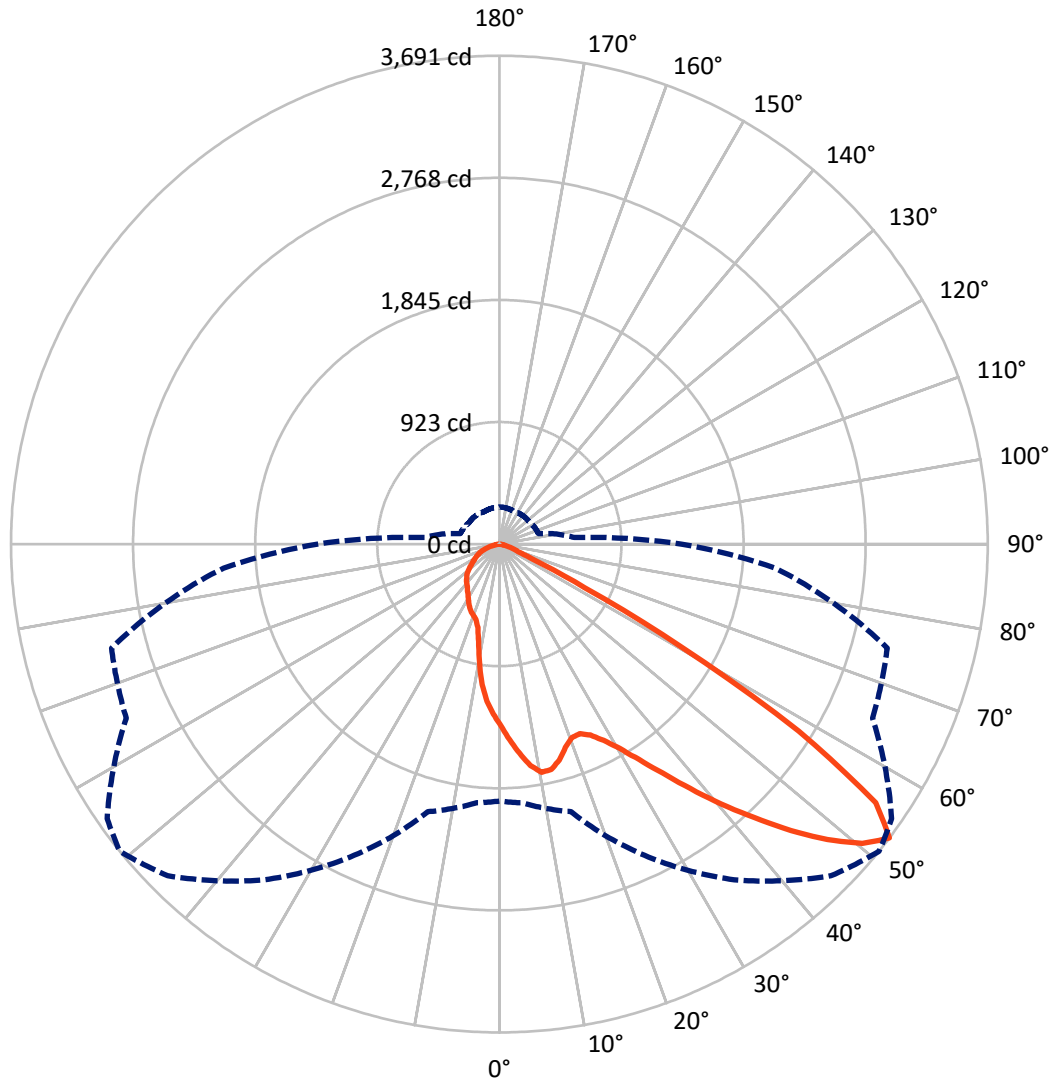
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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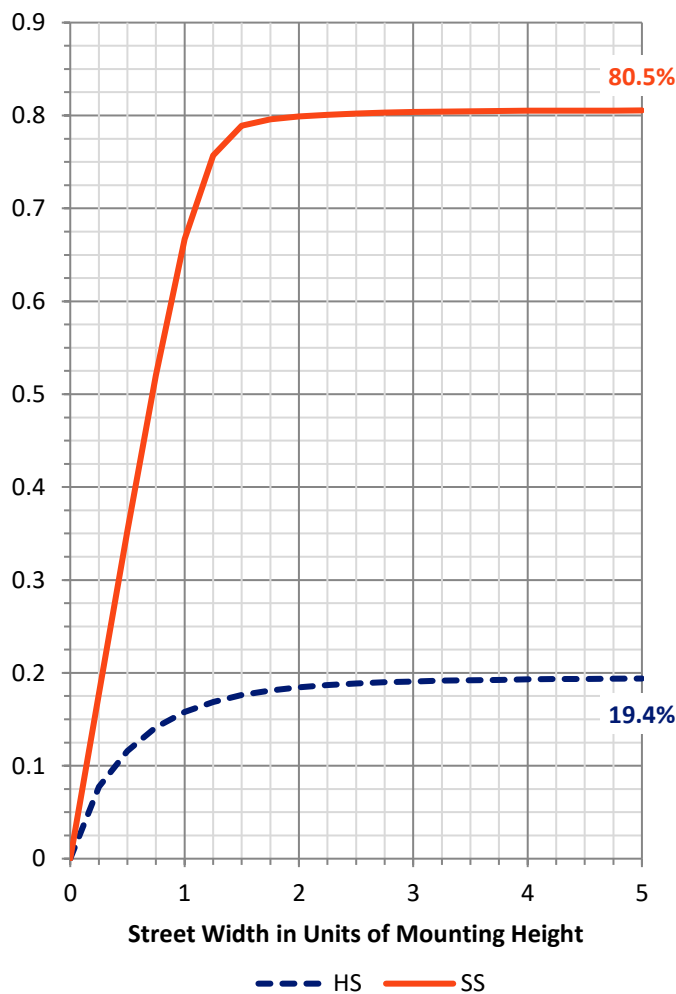
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.5	0.0	898.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3713.2	0.0	3713.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	4611.7	0.0	4611.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	2.8
10°-20°	332.9	7.2
20°-30°	541.3	11.7
30°-40°	857.9	18.6
40°-50°	1293.9	28.1
50°-60°	1119.3	24.3
60°-70°	253.8	5.5
70°-80°	74.8	1.6
80°-90°	9.6	0.2
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°	4611.7	100.0
0°-180°	4611.7	100.0

Coefficient of Utilization



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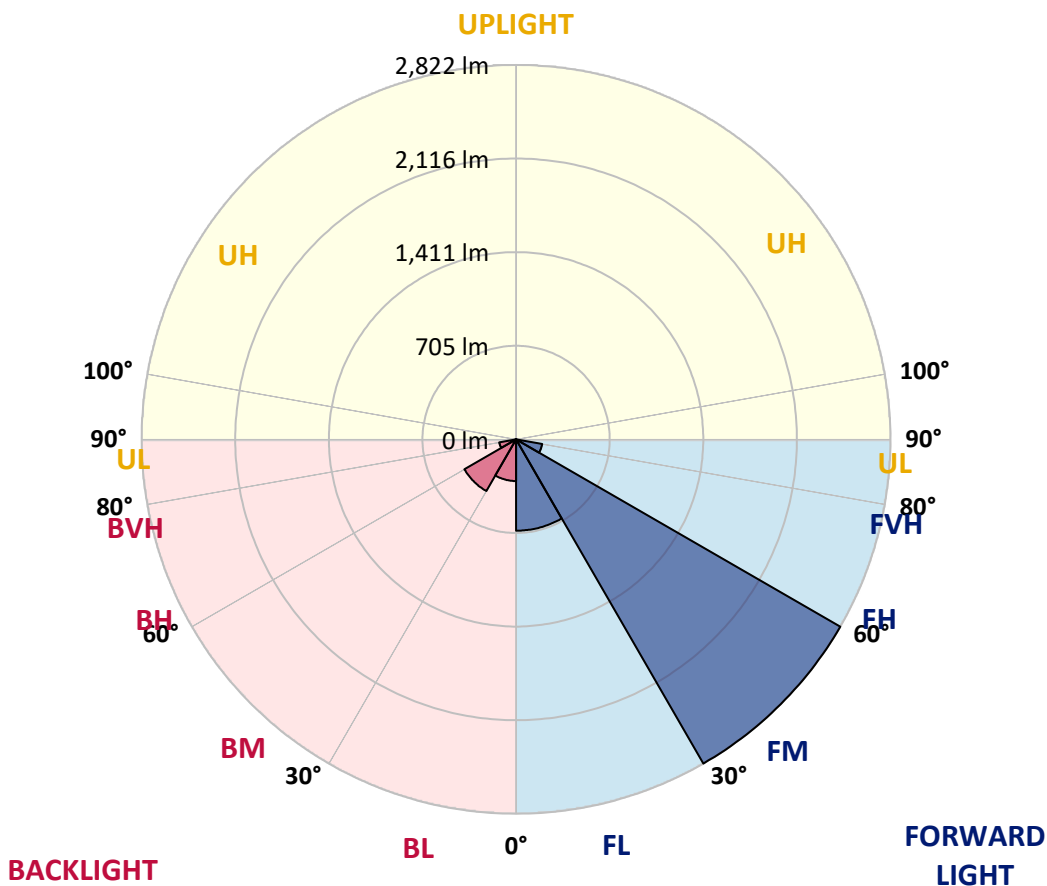
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.3	14.9			
FM (30°-60°)	2821.5	61.2			
FH (60°-80°)	199.7	4.3			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	314.1	6.8	B1/500		
BM (30°-60°)	449.6	9.7	B1/1000		
BH (60°-80°)	128.9	2.8	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1
2.5°	1530.2	1538.9	1525.5	1520.4	1512.0	1497.4	1480.6	1475.9	1439.8	1416.1	1389.5
5°	1684.0	1688.7	1677.8	1666.9	1646.1	1620.2	1587.8	1580.9	1515.3	1461.0	1404.5
7.5°	1718.2	1716.4	1725.9	1732.1	1729.5	1719.3	1690.5	1677.1	1598.7	1512.7	1429.3
10°	1582.7	1572.5	1607.5	1649.0	1698.9	1756.5	1753.2	1752.1	1684.0	1582.3	1461.0
12.5°	1403.0	1397.9	1426.3	1478.5	1572.8	1700.4	1748.1	1785.3	1760.9	1648.6	1496.3
15°	1300.2	1298.4	1317.7	1355.3	1430.3	1591.4	1693.5	1767.1	1826.8	1719.7	1533.8
17.5°	1281.7	1282.8	1289.3	1310.8	1364.8	1497.4	1615.5	1718.2	1878.2	1797.7	1580.9
20°	1336.0	1343.3	1332.0	1335.2	1364.4	1463.5	1562.3	1669.0	1911.0	1876.0	1631.5
22.5°	1456.6	1454.0	1429.3	1414.7	1415.0	1484.3	1556.4	1646.1	1932.5	1952.2	1677.4
25°	1593.2	1590.3	1560.8	1528.4	1508.0	1540.8	1598.3	1670.5	1951.8	2021.8	1714.2
27.5°	1754.7	1745.6	1712.8	1671.2	1626.0	1640.3	1679.2	1736.5	1981.7	2090.3	1738.6
30°	1911.0	1921.6	1874.6	1825.4	1777.6	1768.9	1791.5	1843.2	2042.6	2170.5	1767.8
32.5°	2118.4	2114.7	2062.6	1998.5	1930.3	1923.8	1941.6	1989.0	2151.9	2281.3	1812.3
35°	2369.5	2370.2	2296.2	2209.5	2112.5	2095.0	2124.9	2170.8	2314.8	2431.4	1882.6
37.5°	2630.4	2629.3	2564.8	2466.4	2334.1	2309.3	2343.6	2377.8	2518.5	2635.8	1991.9
40°	2813.3	2820.6	2790.4	2738.6	2613.3	2552.8	2583.0	2606.7	2740.1	2876.4	2135.9
42.5°	2917.2	2928.1	2934.7	2965.6	2899.7	2835.2	2824.3	2836.6	2938.0	3099.8	2271.1
45°	2939.4	2954.0	3001.7	3116.5	3142.0	3123.8	3088.1	3058.2	3085.5	3258.3	2359.6
47.5°	2841.4	2866.9	2968.9	3169.7	3318.8	3376.0	3336.3	3290.7	3170.8	3299.1	2350.5
50°	2452.9	2482.8	2712.7	3061.1	3343.9	3552.4	3556.0	3488.6	3160.6	3181.4	2236.1
52.5°	1942.0	1962.4	2094.0	2595.0	3097.2	3545.1	3690.8	3618.7	3111.4	3034.2	2092.9
55°	1160.7	1193.5	1316.3	1712.0	2412.8	3142.0	3452.5	3487.5	3087.4	2910.6	1995.2
57.5°	391.8	407.8	525.1	756.2	1422.0	2300.6	2667.6	2809.7	2802.8	2721.9	1804.6
60°	186.6	190.2	213.9	286.8	569.2	1202.2	1579.0	1743.0	1892.4	1907.4	1122.8
62.5°	142.1	144.3	156.3	172.0	228.9	506.5	723.7	849.1	907.0	778.4	408.9
65°	118.8	120.6	129.7	139.6	155.6	219.4	277.7	320.3	288.6	224.8	195.0
67.5°	99.1	100.6	107.5	118.1	129.0	146.9	154.1	158.5	166.2	186.6	179.3
70°	77.6	79.1	86.4	95.5	106.0	110.4	117.3	121.7	137.0	163.3	162.5
72.5°	59.8	61.6	65.6	71.4	80.2	84.5	92.2	97.3	106.0	127.2	135.9
75°	43.7	44.8	48.5	50.3	51.4	50.3	57.9	63.8	75.4	83.5	85.6
77.5°	17.9	20.0	19.3	19.3	23.0	27.7	31.7	35.3	43.4	48.1	48.5
80°	7.3	8.0	9.5	10.6	12.8	16.4	18.9	20.4	24.1	27.0	29.2
82.5°	4.4	4.7	5.5	5.8	7.3	9.5	10.9	12.0	14.9	17.9	18.9
85°	2.2	2.2	2.6	2.9	3.6	4.4	5.1	5.8	7.7	9.5	10.6
87.5°	0.4	0.4	0.4	0.7	1.1	1.5	1.8	2.2	2.6	2.9	3.6
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°	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1	1373.1
2.5°	1373.9	1354.2	1331.2	1313.0	1291.9	1276.2	1254.0	1240.1	1227.0	1216.1	1208.1
5°	1375.3	1342.2	1294.4	1252.1	1208.4	1166.9	1124.2	1089.6	1058.6	1032.8	1030.6
7.5°	1383.7	1336.0	1261.3	1187.3	1102.0	1019.6	937.3	870.2	819.2	792.6	787.1
10°	1397.9	1335.2	1227.4	1109.3	963.9	831.2	733.6	682.6	653.0	642.5	638.8
12.5°	1412.9	1333.4	1184.0	999.2	797.4	681.1	627.5	621.3	626.8	627.5	627.2
15°	1431.1	1332.3	1129.3	870.2	675.6	611.5	615.1	628.3	641.0	643.9	643.9
17.5°	1453.3	1329.8	1055.0	744.1	599.5	598.0	617.3	634.8	646.8	649.0	649.0
20°	1476.6	1323.2	963.5	641.4	568.5	589.6	610.4	623.9	632.3	635.2	635.5
22.5°	1492.7	1305.7	858.2	565.2	549.2	573.6	588.5	602.4	602.4	595.1	592.9
25°	1495.9	1268.2	744.1	513.1	526.2	548.8	564.1	556.1	541.2	535.3	535.0
27.5°	1483.9	1213.5	631.5	475.9	498.5	521.1	518.6	506.9	500.3	494.5	496.7
30°	1469.3	1147.9	533.9	445.3	466.5	488.7	479.9	475.9	471.2	464.6	466.1
32.5°	1459.5	1074.7	458.8	421.6	445.0	448.6	454.8	454.4	450.1	437.7	436.9
35°	1462.4	1000.7	408.5	402.3	427.1	425.6	437.3	435.1	404.9	387.7	386.6
37.5°	1485.7	929.6	379.0	387.0	398.7	407.8	418.0	391.8	381.2	370.3	371.0
40°	1530.2	863.7	363.0	378.6	381.5	395.0	371.3	371.0	366.2	356.4	356.0
42.5°	1580.5	807.9	352.0	374.6	370.6	373.2	348.0	350.9	350.6	344.4	342.6
45°	1611.1	756.5	343.3	359.7	360.8	335.3	327.6	330.9	332.7	329.4	329.1
47.5°	1579.4	697.5	334.2	336.7	346.2	318.1	308.7	309.0	312.3	312.7	311.2
50°	1490.5	631.5	323.2	317.0	310.8	300.3	291.5	289.7	293.0	296.3	297.4
52.5°	1375.7	568.5	305.0	295.5	281.0	281.0	277.0	271.1	275.5	279.9	281.3
55°	1291.5	521.8	279.1	268.6	252.5	258.0	257.3	252.2	258.0	261.3	262.4
57.5°	1119.1	419.4	245.6	242.3	228.9	235.4	236.9	230.3	227.4	228.1	229.2
60°	664.3	270.8	221.6	221.2	209.2	216.8	221.2	214.6	205.9	207.0	208.4
62.5°	298.1	207.0	191.3	189.9	189.5	199.3	204.1	197.9	185.5	186.6	188.0
65°	187.7	178.9	166.2	166.2	172.0	180.4	184.0	178.9	164.7	162.9	164.4
67.5°	174.2	166.5	153.4	150.9	153.8	160.7	161.1	151.2	142.9	141.4	141.4
70°	156.3	150.5	137.8	132.6	131.6	131.2	130.1	127.5	122.1	120.6	121.4
72.5°	129.4	125.4	117.3	111.9	109.0	108.6	104.2	102.0	97.3	96.6	96.2
75°	85.6	86.7	86.7	86.0	83.5	82.4	77.6	75.4	70.0	67.8	67.4
77.5°	50.7	51.7	53.2	53.6	53.2	53.2	48.8	46.3	40.8	37.9	37.2
80°	31.0	31.7	32.4	33.5	32.1	31.0	27.0	24.4	21.9	20.0	19.7
82.5°	20.0	20.8	21.1	21.9	21.1	19.7	16.4	14.9	13.1	11.7	11.3
85°	11.3	11.7	12.4	12.4	11.3	10.2	8.4	7.3	6.2	5.5	5.5
87.5°	4.0	4.0	4.0	4.4	3.6	3.3	2.2	1.5	1.1	1.1	1.1
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)