

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: P631480

Luminaire Tested: GWS-SA1F-827-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-827-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6306.7 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

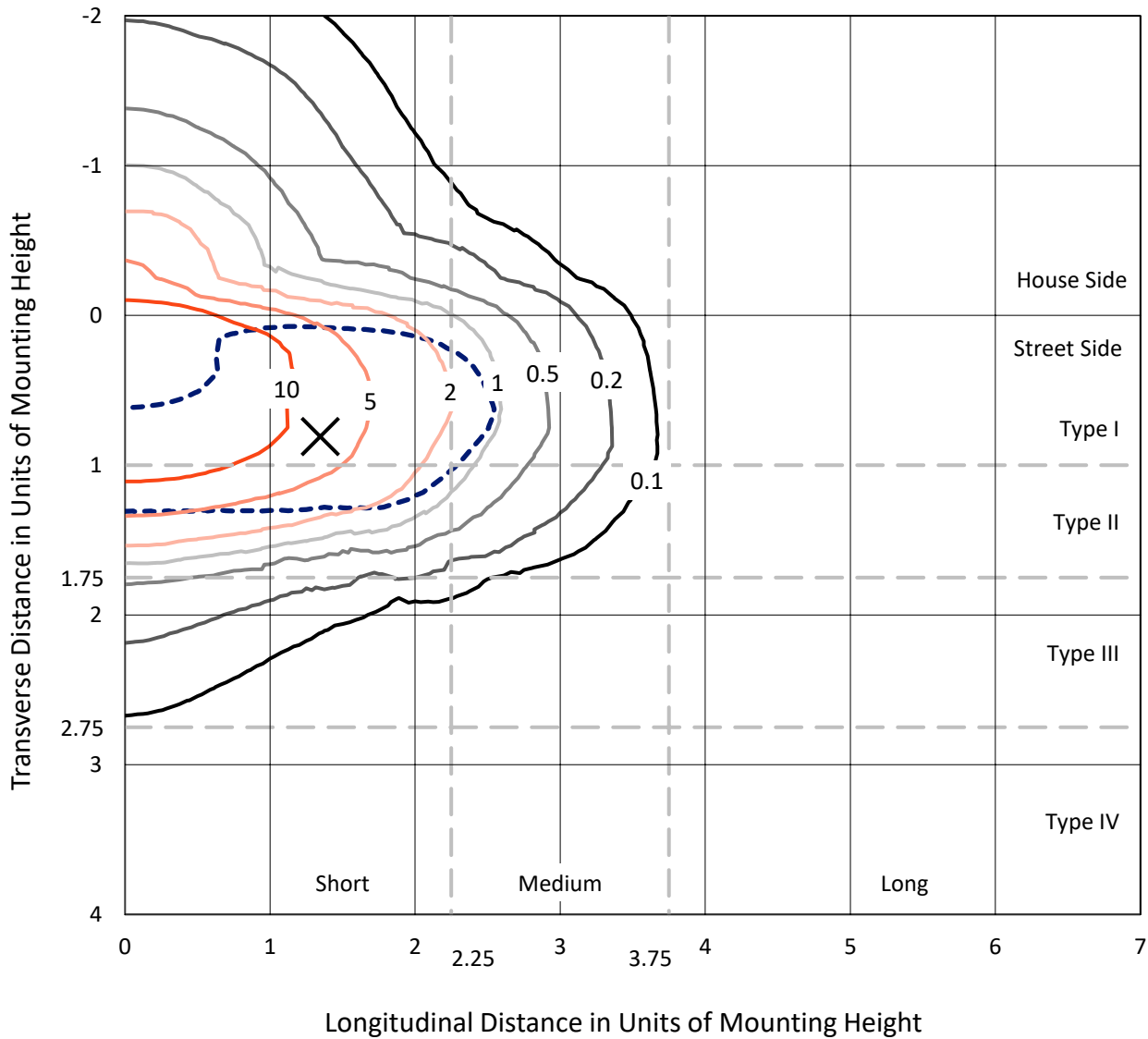
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

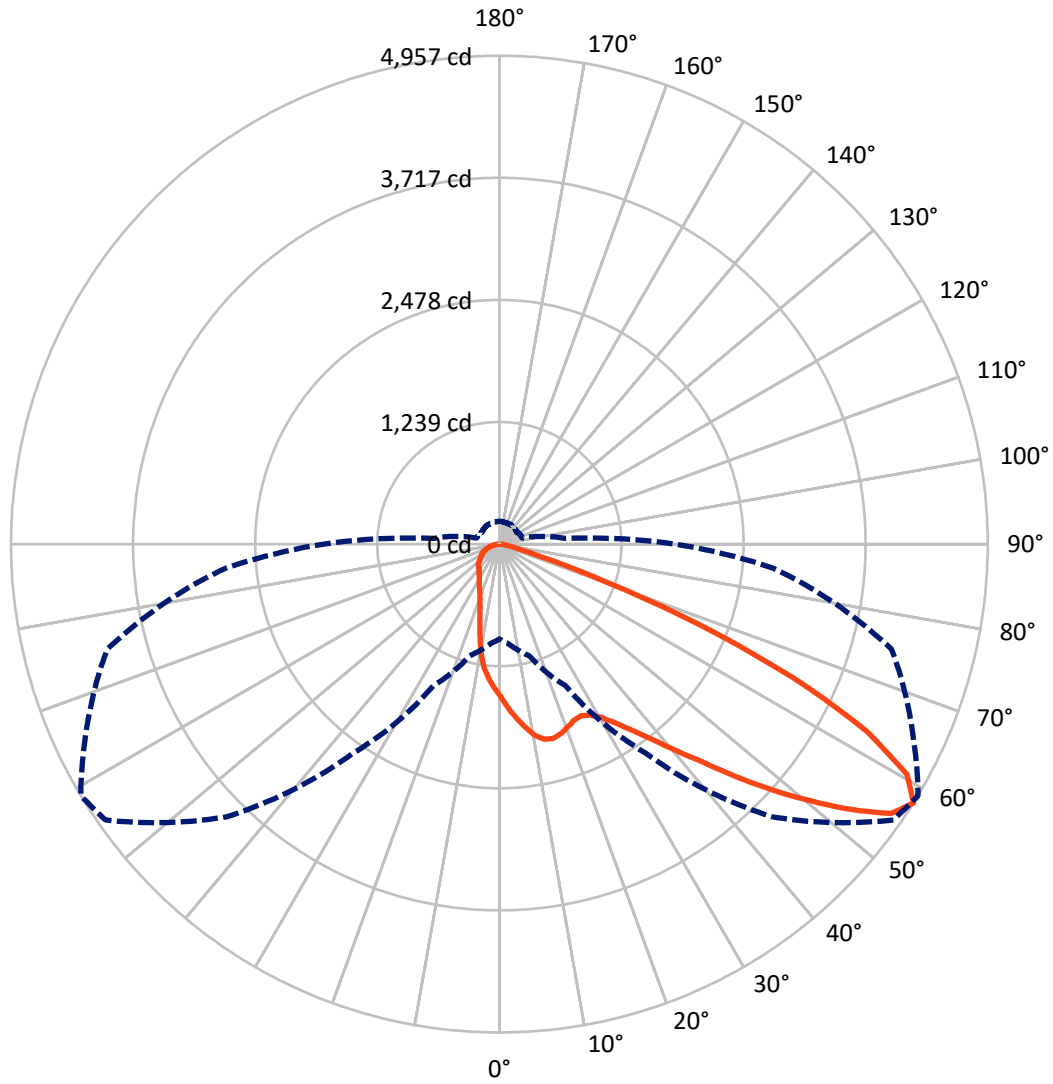
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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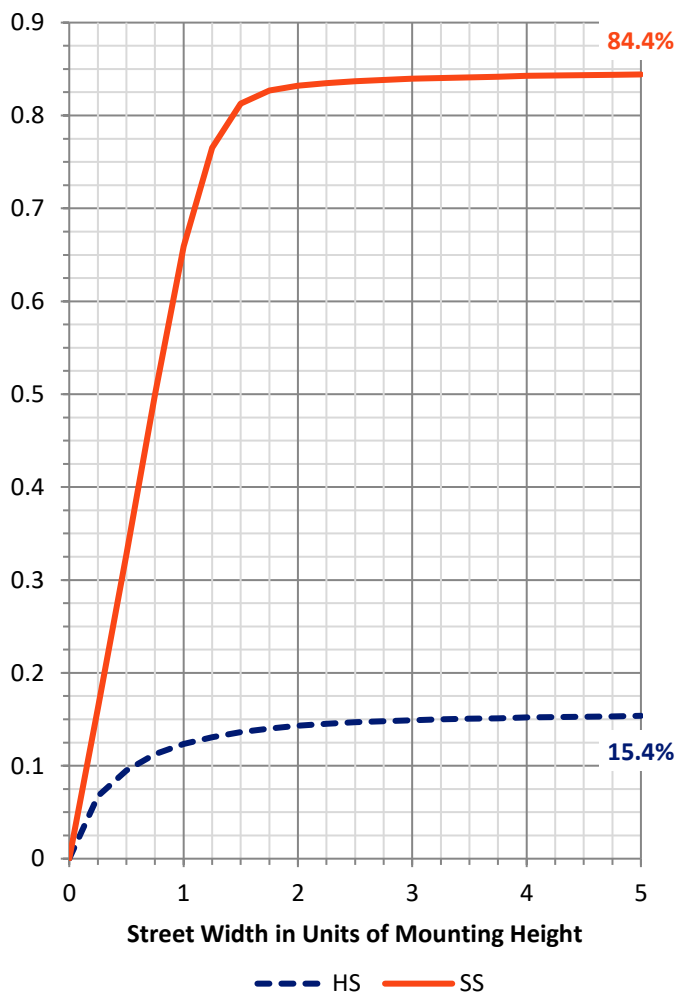
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.8	0.0	978.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5327.9	0.0	5327.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	6306.7	0.0	6306.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	2.3
10°-20°	364.3	5.8
20°-30°	590.5	9.4
30°-40°	949.9	15.1
40°-50°	1475.0	23.4
50°-60°	1588.8	25.2
60°-70°	922.1	14.6
70°-80°	240.7	3.8
80°-90°	31.7	0.5
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°	6306.7	100.0
0°-180°	6306.7	100.0

Coefficient of Utilization



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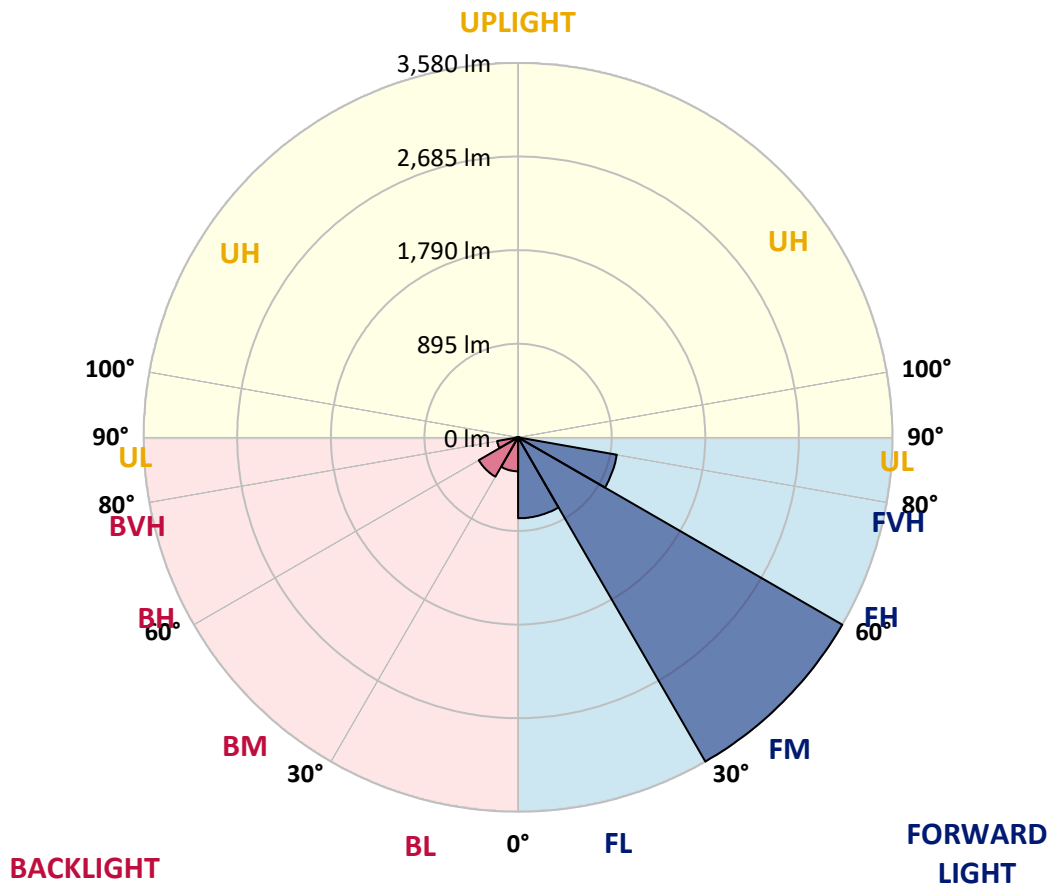
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.8	12.3			
FM (30°-60°)	3579.8	56.8			
FH (60°-80°)	959.2	15.2			G1/1800
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	324.7	5.1	B1/500		
BM (30°-60°)	433.9	6.9	B1/1000		
BH (60°-80°)	203.6	3.2	B1/500		G1/500
BVH (80°-90°)	16.5	0.3			G1/100
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°	55°	59°	65°	75°	85°
0°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1756.0	1741.3	1751.5	1733.3	1725.8	1705.8	1680.0	1662.7	1636.1	1601.4	1571.3
5°	1930.4	1920.2	1922.4	1902.9	1885.6	1852.3	1799.5	1770.2	1724.9	1655.2	1590.3
7.5°	1925.1	1937.1	1943.8	1960.6	1965.5	1962.4	1914.9	1874.1	1824.3	1719.5	1621.9
10°	1725.8	1748.4	1768.8	1826.5	1896.7	1985.5	1996.6	1972.2	1922.0	1801.7	1659.6
12.5°	1508.7	1526.0	1544.2	1613.4	1720.9	1898.5	2018.8	2033.9	2013.9	1882.9	1702.2
15°	1402.1	1410.1	1427.4	1473.1	1558.8	1756.0	1980.2	2046.3	2082.3	1969.1	1750.2
17.5°	1397.7	1401.2	1409.6	1434.1	1493.6	1645.8	1910.5	2021.5	2136.0	2060.1	1806.1
20°	1489.6	1480.2	1474.9	1474.5	1503.8	1609.0	1843.0	1981.5	2161.3	2153.3	1866.1
22.5°	1617.0	1620.1	1608.6	1580.1	1576.6	1635.2	1809.2	1941.1	2168.9	2235.9	1921.6
25°	1797.7	1813.2	1779.0	1724.9	1698.2	1711.1	1830.1	1928.7	2168.0	2304.7	1956.2
27.5°	2008.6	2020.6	1985.9	1914.9	1859.8	1828.8	1892.3	1965.5	2175.5	2364.2	1977.1
30°	2248.8	2252.8	2205.3	2130.7	2050.3	1983.7	1995.7	2041.4	2214.1	2442.4	2001.5
32.5°	2542.2	2559.1	2487.2	2369.1	2256.8	2171.5	2134.7	2164.0	2297.6	2534.7	2039.2
35°	2914.7	2920.5	2829.1	2659.9	2501.0	2382.9	2305.6	2321.1	2424.6	2663.9	2096.0
37.5°	3265.9	3271.7	3174.5	3017.3	2790.0	2628.4	2516.5	2509.4	2587.1	2846.4	2188.8
40°	3488.8	3505.2	3461.7	3363.2	3146.1	2928.1	2776.2	2751.8	2800.2	3069.7	2318.0
42.5°	3608.7	3615.8	3614.9	3627.8	3498.6	3281.9	3069.3	3020.4	3052.8	3310.8	2448.6
45°	3609.6	3627.3	3674.8	3798.7	3804.5	3669.5	3439.5	3363.2	3333.4	3553.6	2584.9
47.5°	3448.0	3467.1	3597.6	3841.3	4021.2	4051.8	3883.1	3729.9	3604.7	3762.8	2696.8
50°	2958.7	3006.7	3255.3	3686.4	4063.8	4358.1	4306.2	4098.4	3845.8	3924.4	2766.9
52.5°	2533.8	2532.0	2685.2	3248.6	3885.7	4493.1	4715.5	4477.6	4084.2	4026.9	2784.7
55°	1855.4	1865.6	2022.3	2484.5	3410.7	4362.6	4940.6	4826.5	4357.7	4081.5	2777.6
57.5°	962.1	1012.7	1173.4	1585.5	2591.5	3913.3	4880.7	4956.6	4635.6	4120.2	2786.9
60°	486.2	476.4	534.1	757.0	1501.6	3056.4	4511.3	4753.3	4685.8	4150.4	2792.7
62.5°	324.6	321.9	305.9	350.7	613.6	1810.1	3845.8	4185.0	4337.3	4079.3	2719.0
65°	281.0	275.7	246.4	244.6	297.9	750.8	2818.8	3289.9	3584.7	3763.6	2542.7
67.5°	253.1	245.1	215.3	200.7	214.0	329.9	1588.6	2206.6	2647.0	3182.9	2156.4
70°	226.0	222.0	192.2	170.9	169.6	201.1	585.2	1138.8	1619.7	2171.5	1576.6
72.5°	202.5	195.4	170.0	149.6	139.4	142.5	254.0	438.7	838.2	1354.6	943.0
75°	175.4	170.0	147.8	127.4	115.0	104.3	155.0	202.9	382.3	643.8	445.3
77.5°	135.4	131.9	116.8	101.2	94.1	77.7	94.1	127.9	176.7	271.3	231.8
80°	78.6	80.8	87.0	79.0	69.3	55.5	61.3	73.7	106.1	147.0	131.4
82.5°	39.5	42.2	56.4	45.7	41.3	32.4	36.4	43.5	55.5	81.2	51.5
85°	3.1	3.1	10.2	11.5	14.2	11.5	14.7	17.8	25.3	32.4	17.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	4.0	7.5	4.9
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°	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1550.8	1528.2	1501.1	1478.9	1444.7	1426.5	1403.4	1375.0	1363.5	1358.1	1355.0
5°	1553.9	1514.0	1456.3	1403.0	1343.9	1297.3	1245.4	1191.2	1160.1	1152.6	1147.3
7.5°	1565.5	1509.5	1417.6	1329.7	1220.1	1118.4	1019.4	921.3	871.1	852.0	850.2
10°	1581.5	1507.8	1378.6	1232.5	1047.4	886.6	770.8	693.9	661.5	650.9	647.3
12.5°	1601.4	1506.4	1327.1	1097.5	848.0	696.2	630.0	617.6	622.0	621.1	621.1
15°	1626.8	1508.2	1264.9	944.8	686.0	604.3	605.6	620.2	634.0	636.2	636.2
17.5°	1654.3	1506.4	1174.8	791.6	588.7	582.5	602.9	623.4	635.8	637.6	637.6
20°	1684.0	1498.0	1061.1	647.3	546.1	568.7	590.9	606.9	614.5	616.2	616.2
22.5°	1701.8	1474.0	937.7	547.9	519.0	547.0	561.6	578.1	579.0	564.7	564.3
25°	1699.1	1429.2	796.9	483.9	490.2	514.6	533.2	521.7	507.5	499.5	498.1
27.5°	1682.3	1361.7	653.5	435.5	456.0	483.5	477.7	468.0	464.4	455.5	454.6
30°	1660.9	1278.7	524.8	397.8	420.5	445.8	436.9	436.0	432.4	422.7	422.7
32.5°	1640.5	1193.0	427.6	369.8	397.8	399.6	412.0	412.9	411.1	394.3	392.5
35°	1634.7	1107.3	361.8	347.6	375.6	374.7	392.5	392.0	361.4	337.9	337.4
37.5°	1652.1	1020.3	322.8	329.4	345.0	356.5	370.7	345.0	334.8	320.6	319.7
40°	1688.9	939.9	302.8	318.8	325.4	342.3	320.1	321.9	319.2	308.6	307.2
42.5°	1737.7	871.5	291.7	315.2	314.3	318.8	294.4	301.5	305.5	297.5	296.1
45°	1784.8	812.0	285.9	301.9	306.3	280.6	275.7	282.4	288.6	285.5	284.1
47.5°	1819.4	760.5	282.8	283.7	296.1	267.7	259.7	262.8	270.4	271.7	271.3
50°	1830.1	716.6	279.3	268.6	265.9	254.8	248.6	247.7	256.6	262.8	263.7
52.5°	1809.7	677.5	269.9	255.3	242.4	244.2	242.0	237.5	246.4	254.8	255.7
55°	1779.5	655.3	255.3	242.4	227.3	234.4	235.3	231.3	237.1	242.9	242.9
57.5°	1781.7	668.2	241.1	230.4	214.0	223.3	228.2	226.4	226.4	230.9	231.3
60°	1796.4	686.8	231.8	215.3	200.7	210.4	221.5	219.8	215.8	221.5	221.5
62.5°	1754.2	662.0	225.5	200.7	186.5	198.0	211.3	210.4	206.0	215.3	216.2
65°	1629.9	595.4	218.4	182.5	172.3	185.6	197.1	200.2	196.2	208.7	210.9
67.5°	1366.1	500.8	204.7	165.2	158.1	170.5	181.6	186.0	182.9	197.6	199.3
70°	1018.5	405.4	182.9	146.1	140.7	151.8	162.1	163.8	164.3	181.6	183.4
72.5°	649.5	315.2	154.1	124.8	120.8	129.2	136.7	143.9	147.0	163.4	162.9
75°	362.3	234.4	123.9	105.7	98.6	105.2	114.1	122.5	131.4	155.4	158.1
77.5°	208.7	164.7	98.1	84.8	76.4	83.5	91.0	103.0	129.6	150.5	147.8
80°	117.7	107.0	74.1	62.2	56.8	62.2	67.9	90.6	102.1	111.0	112.3
82.5°	55.1	59.9	50.6	38.2	38.2	41.7	47.1	70.1	77.3	63.0	55.1
85°	20.0	27.1	24.9	19.5	17.3	16.9	29.3	40.0	24.9	22.2	19.1
87.5°	5.3	7.5	7.1	4.9	2.7	2.2	0.0	0.0	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)