

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: P631546

Luminaire Tested: GWS-SA1F-830-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6557.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

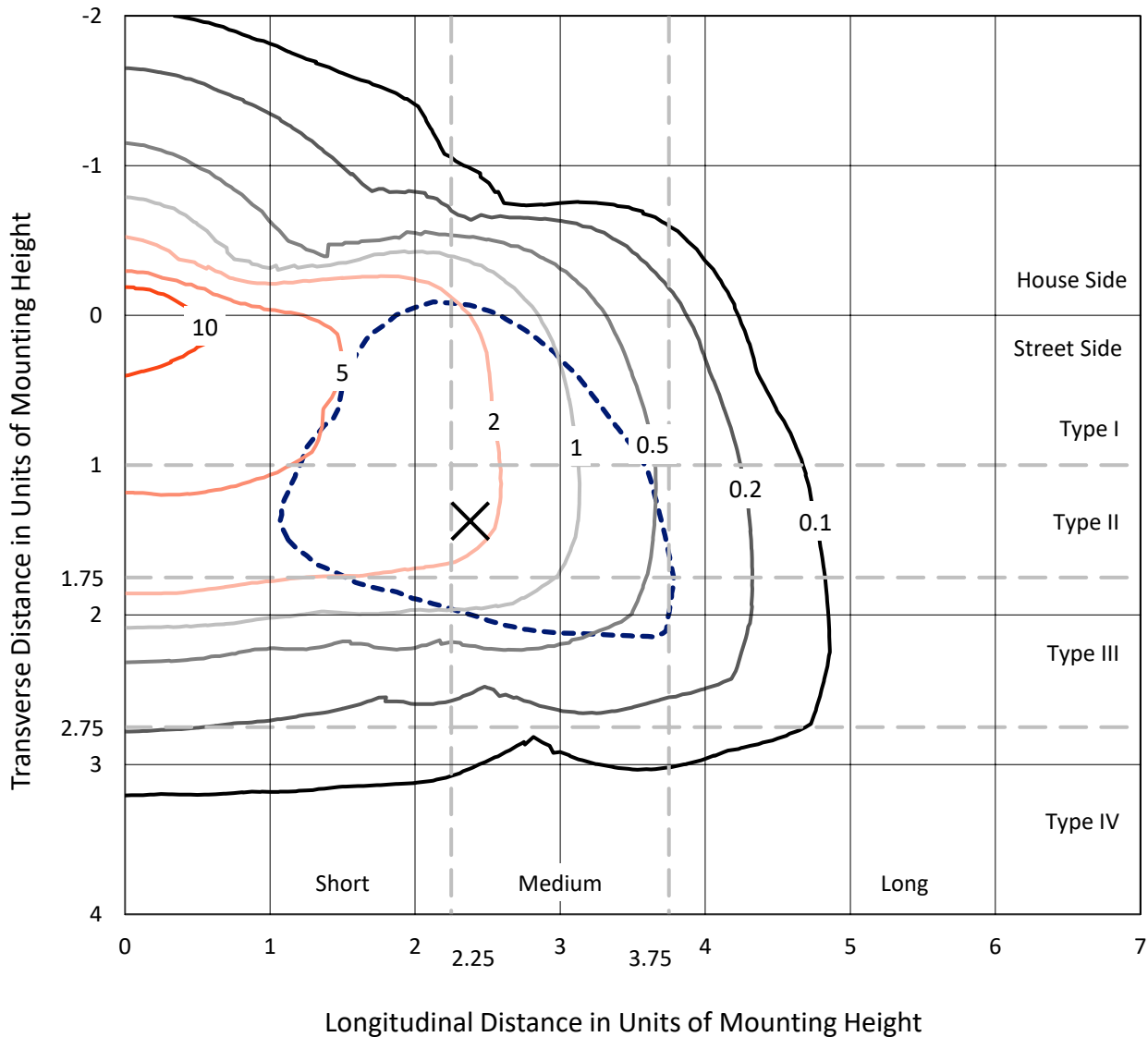
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

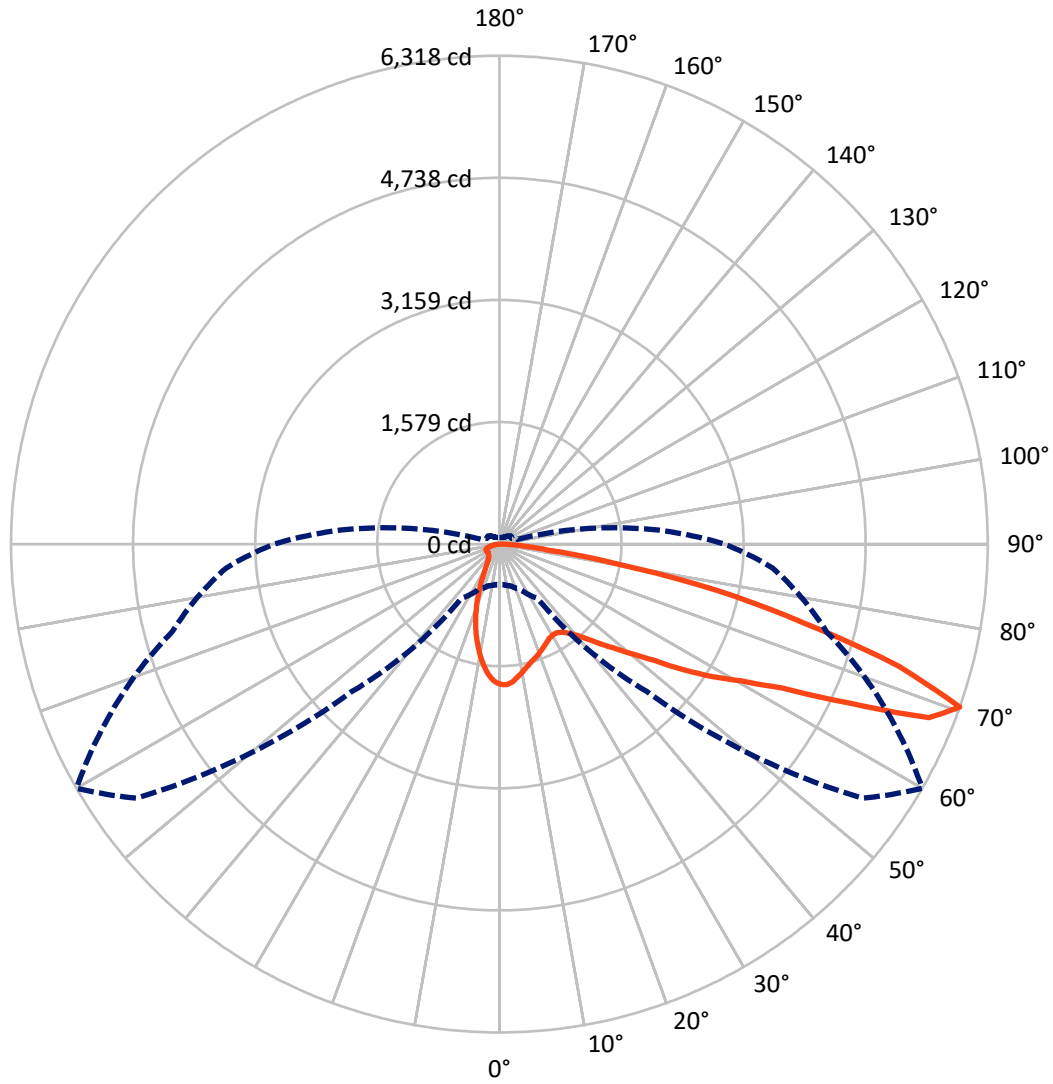
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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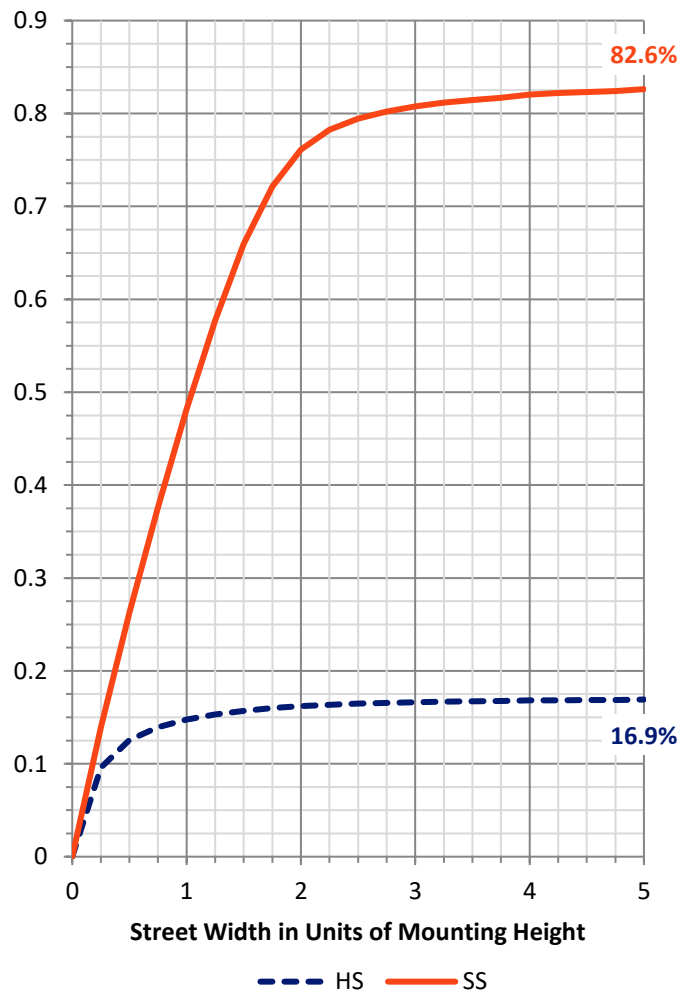
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.5	0.0	1121.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5436.1	0.0	5436.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	6557.6	0.0	6557.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	2.4
10°-20°	350.4	5.3
20°-30°	448.8	6.8
30°-40°	589.8	9.0
40°-50°	855.7	13.0
50°-60°	1335.0	20.4
60°-70°	1747.8	26.7
70°-80°	966.5	14.7
80°-90°	107.3	1.6
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°	6557.6	100.0
0°-180°	6557.6	100.0

Coefficient of Utilization



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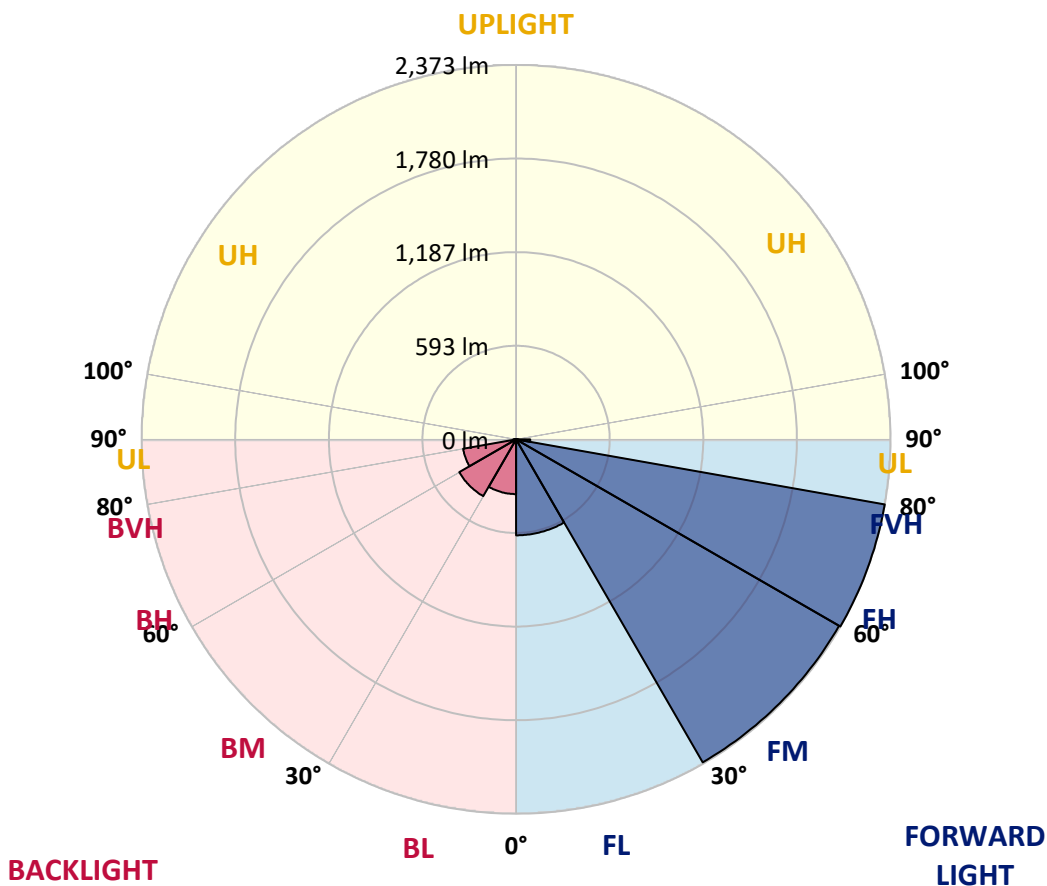
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.6	9.3			
FM (30°-60°)	2364.6	36.1			
FH (60°-80°)	2373.5	36.2			G2/5000
FVH (80°-90°)	89.4	1.4			G1/100
BL (0°-30°)	347.0	5.3	B1/500		
BM (30°-60°)	415.8	6.3	B1/1000		
BH (60°-80°)	340.8	5.2	B1/500		G1/500
BVH (80°-90°)	17.9	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6
2.5°	1789.1	1791.1	1796.3	1804.0	1811.7	1815.5	1825.1	1822.2	1820.3	1816.5	1811.7
5°	1710.0	1713.8	1718.6	1733.5	1750.3	1763.7	1785.3	1787.7	1788.7	1790.6	1782.9
7.5°	1609.2	1610.2	1621.7	1641.4	1663.4	1686.5	1722.5	1732.5	1741.2	1750.8	1744.5
10°	1497.9	1500.3	1508.9	1537.3	1575.2	1609.2	1657.7	1674.5	1692.7	1713.8	1705.2
12.5°	1406.7	1407.2	1421.1	1451.4	1492.6	1538.7	1599.1	1619.3	1643.3	1676.4	1668.7
15°	1334.3	1334.3	1347.3	1373.2	1420.7	1474.9	1546.8	1572.8	1605.4	1650.0	1636.6
17.5°	1276.7	1277.2	1285.4	1312.7	1354.9	1414.9	1500.3	1535.3	1571.3	1630.3	1610.2
20°	1246.5	1244.1	1245.5	1262.3	1298.3	1356.4	1453.8	1494.6	1543.0	1616.9	1586.2
22.5°	1245.1	1240.7	1234.5	1235.9	1257.1	1305.0	1403.9	1453.3	1514.2	1605.9	1561.7
25°	1269.5	1264.7	1253.7	1241.2	1239.3	1268.1	1356.9	1413.0	1484.5	1601.1	1538.2
27.5°	1310.8	1307.4	1293.0	1274.3	1254.7	1253.7	1321.3	1379.9	1462.9	1605.9	1521.4
30°	1365.5	1359.7	1350.6	1326.6	1296.9	1266.2	1307.4	1362.1	1448.5	1621.2	1514.2
32.5°	1427.4	1424.0	1415.4	1391.4	1359.7	1310.8	1318.5	1366.0	1448.5	1648.1	1515.7
35°	1493.1	1492.6	1492.6	1476.8	1441.8	1380.8	1362.1	1398.6	1470.6	1691.3	1531.0
37.5°	1556.9	1556.4	1571.8	1577.6	1537.7	1472.0	1436.5	1463.8	1519.0	1755.1	1568.9
40°	1608.7	1610.7	1644.2	1673.0	1651.0	1590.0	1540.1	1554.0	1597.7	1845.8	1635.1
42.5°	1661.0	1666.3	1716.7	1767.6	1776.2	1723.4	1673.0	1681.2	1710.5	1965.7	1734.0
45°	1718.1	1720.5	1791.1	1862.1	1903.8	1872.6	1831.4	1842.4	1849.1	2114.0	1881.3
47.5°	1773.3	1779.5	1870.7	1968.1	2047.3	2044.4	2021.4	2018.0	2019.4	2294.4	2055.4
50°	1848.6	1857.8	1964.7	2082.3	2198.4	2251.7	2258.4	2233.0	2222.4	2494.9	2272.3
52.5°	1991.6	1991.6	2087.6	2203.2	2359.1	2491.1	2536.2	2494.4	2460.9	2707.0	2502.6
55°	2170.6	2178.3	2254.5	2348.1	2545.8	2743.0	2895.5	2849.5	2754.5	2937.8	2743.9
57.5°	2250.2	2259.8	2380.7	2526.1	2790.0	3029.4	3241.0	3224.7	3086.0	3177.7	2994.4
60°	2106.3	2126.4	2292.9	2536.7	3011.2	3491.4	3640.7	3593.2	3395.0	3429.6	3265.9
62.5°	1757.0	1779.1	1963.8	2304.0	2980.5	3990.9	4270.6	4095.5	3780.8	3747.7	3627.7
65°	1048.3	1047.4	1269.5	1720.5	2601.9	4129.6	5267.6	4940.9	4376.7	4184.3	4000.0
67.5°	666.4	665.0	711.5	911.6	1731.6	3789.9	5908.6	5993.6	5186.1	4505.2	4030.7
70°	525.9	525.4	559.0	650.1	856.4	2696.9	5730.2	6317.9	5675.0	4382.9	3549.0
72.5°	383.4	384.3	436.1	544.6	660.7	1354.0	4640.1	5405.8	5219.7	3869.0	2881.2
75°	275.4	276.8	308.0	416.9	609.3	740.3	3085.5	4064.8	3971.2	3101.4	1982.0
77.5°	175.1	177.0	204.4	292.2	492.3	597.8	1870.7	2869.6	2642.2	1747.4	704.8
80°	107.0	113.2	136.3	217.8	393.4	448.6	935.1	1511.8	1323.3	479.3	237.0
82.5°	55.2	60.0	82.0	134.8	271.1	393.9	529.2	635.2	409.7	200.6	126.2
85°	17.3	20.2	28.8	54.7	129.1	244.2	350.2	315.7	188.1	94.5	58.5
87.5°	4.3	4.3	4.8	4.8	5.3	11.0	67.7	71.5	49.9	29.7	24.0
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°	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6	1814.6
2.5°	1802.1	1790.6	1785.8	1785.3	1773.3	1756.0	1744.5	1736.4	1731.6	1730.6	1730.6
5°	1770.0	1755.1	1735.4	1720.5	1688.4	1655.8	1628.4	1613.1	1595.3	1592.9	1592.4
7.5°	1727.3	1705.7	1668.2	1626.5	1570.4	1516.1	1470.1	1438.9	1407.7	1402.0	1400.0
10°	1681.2	1651.9	1588.1	1514.7	1430.7	1349.7	1279.1	1223.9	1187.5	1161.6	1156.8
12.5°	1635.6	1596.7	1503.2	1393.8	1278.6	1167.8	1061.8	971.6	906.3	868.4	861.7
15°	1592.9	1538.7	1410.6	1271.0	1121.3	969.7	819.5	702.4	610.8	578.1	570.5
17.5°	1554.0	1486.4	1320.9	1143.8	957.2	759.0	588.2	484.1	430.4	414.1	410.2
20°	1515.2	1432.7	1229.7	1010.0	783.0	560.9	429.9	381.0	360.8	354.6	352.6
22.5°	1473.4	1373.6	1130.4	878.0	606.9	419.8	351.7	330.1	323.9	324.3	323.9
25°	1431.7	1313.7	1026.3	734.6	452.0	340.7	307.1	298.9	300.3	304.7	305.6
27.5°	1397.2	1260.4	924.1	577.2	353.1	293.2	277.3	276.8	282.1	287.9	288.8
30°	1372.2	1212.9	823.3	443.8	290.8	260.5	254.3	257.2	263.4	267.7	269.2
32.5°	1354.5	1172.1	715.8	348.8	254.8	237.5	234.6	237.5	241.3	245.7	246.6
35°	1348.2	1142.4	610.3	284.5	230.3	220.7	218.8	220.2	222.1	224.5	225.5
37.5°	1362.1	1127.5	499.9	247.6	215.4	209.7	206.8	205.8	206.3	207.3	207.7
40°	1403.4	1134.2	409.7	226.0	205.8	200.6	195.8	193.8	193.4	194.3	193.8
42.5°	1474.4	1162.5	344.5	213.5	198.2	190.5	185.2	183.3	183.3	185.7	185.7
45°	1578.5	1218.2	297.5	204.4	191.4	181.8	176.1	175.1	177.0	180.9	181.4
47.5°	1731.1	1299.8	269.2	197.7	185.2	174.2	168.4	167.9	171.8	178.0	178.5
50°	1912.0	1417.3	253.8	192.9	180.9	167.9	162.2	162.6	167.0	173.7	175.1
52.5°	2129.8	1577.6	254.8	191.0	178.5	164.1	158.3	157.4	161.7	168.4	169.8
55°	2354.8	1772.4	273.5	191.4	175.1	162.2	154.5	151.1	155.0	159.8	160.3
57.5°	2602.4	1992.1	320.0	190.5	170.8	160.3	151.1	143.5	145.9	148.7	150.2
60°	2881.6	2250.7	420.3	192.4	168.9	155.9	144.4	134.3	133.9	135.8	136.3
62.5°	3254.9	2602.4	533.0	195.8	173.2	150.7	134.3	123.8	121.9	122.8	123.3
65°	3540.4	2770.3	497.5	192.9	182.3	146.8	124.7	113.7	109.9	108.9	108.9
67.5°	3424.3	2548.2	346.4	185.2	186.6	147.3	117.1	103.2	98.4	96.0	95.5
70°	2913.8	2069.8	240.9	177.5	181.8	146.3	108.9	94.5	88.3	84.9	84.4
72.5°	2302.0	1580.4	194.8	162.2	165.0	131.9	96.9	84.9	79.6	75.3	75.3
75°	1481.6	964.4	162.6	144.4	134.8	102.7	84.0	75.8	70.5	66.2	66.2
77.5°	498.5	357.9	126.2	122.3	100.8	77.2	70.5	65.3	60.9	57.1	56.6
80°	202.5	169.8	92.6	92.6	70.5	59.0	55.2	52.8	49.9	45.1	45.1
82.5°	117.5	103.2	64.8	56.1	47.0	40.8	38.4	36.0	36.0	32.6	32.6
85°	56.6	57.1	38.9	34.5	26.9	23.5	22.6	21.1	20.6	18.7	18.2
87.5°	30.7	31.2	19.7	15.4	10.6	9.1	7.7	7.2	6.7	6.2	6.2
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)