

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: P631092

Luminaire Tested: GWS-SA1F-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-722-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

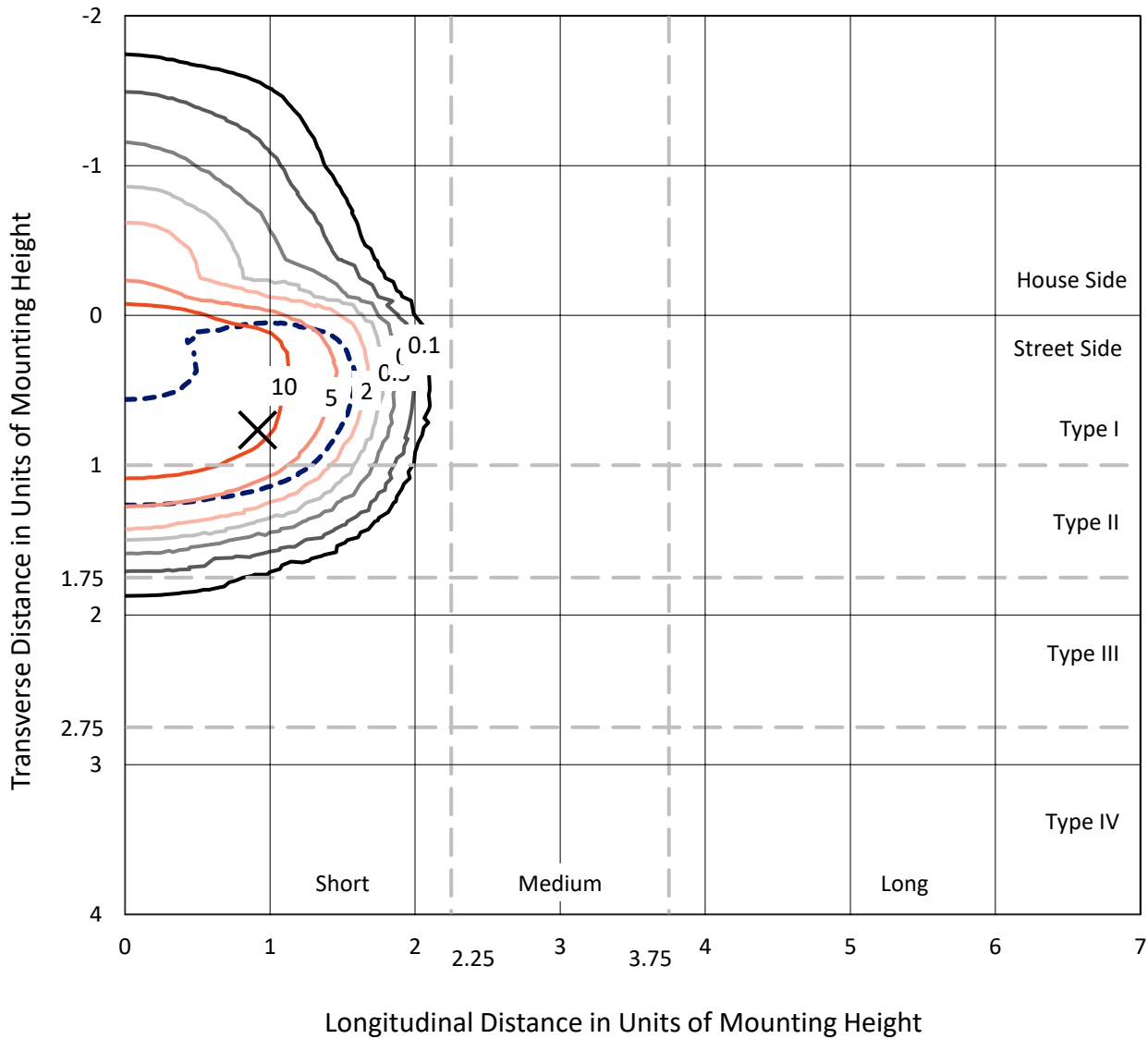
Lumens per Lamp: N/A  
Luminaire Lumens: 4673.8 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

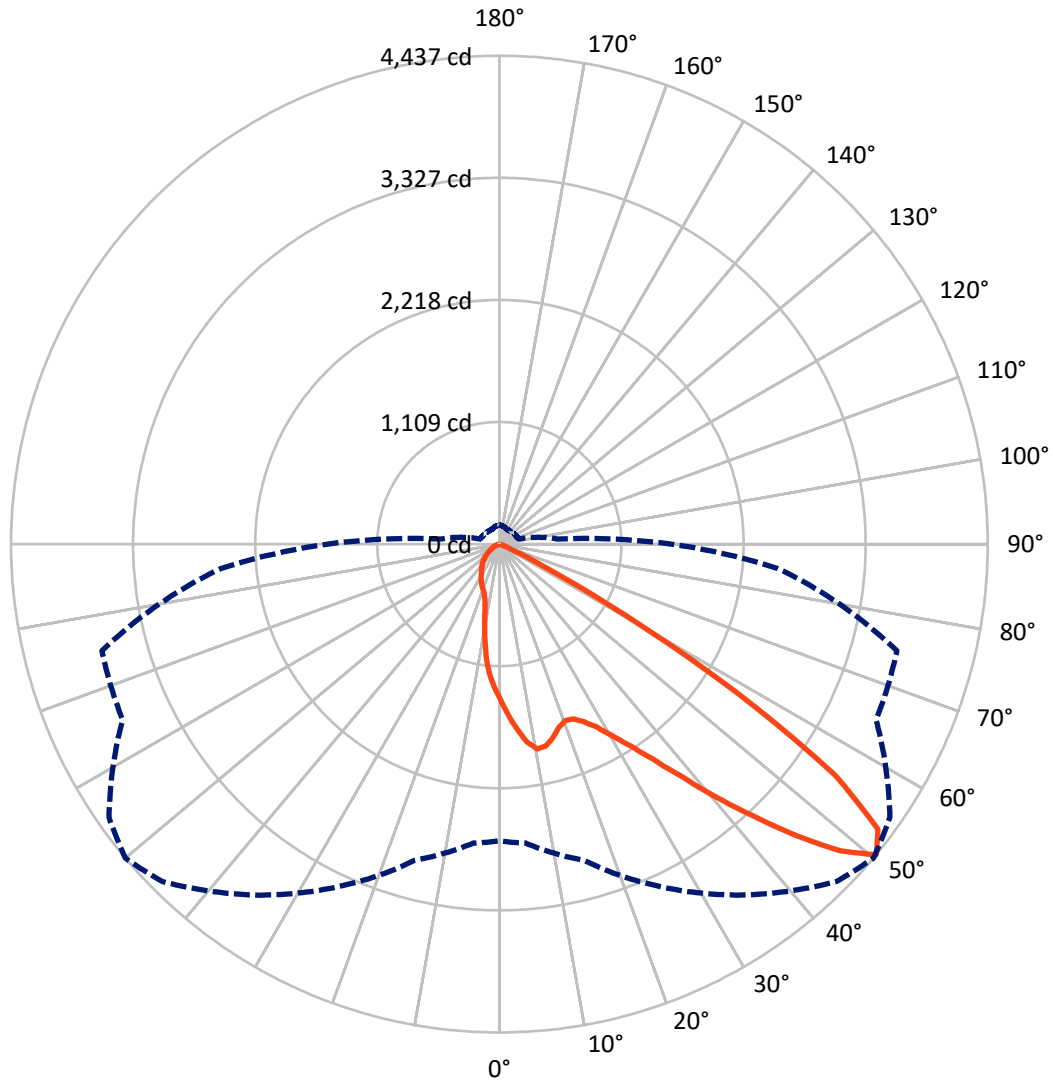
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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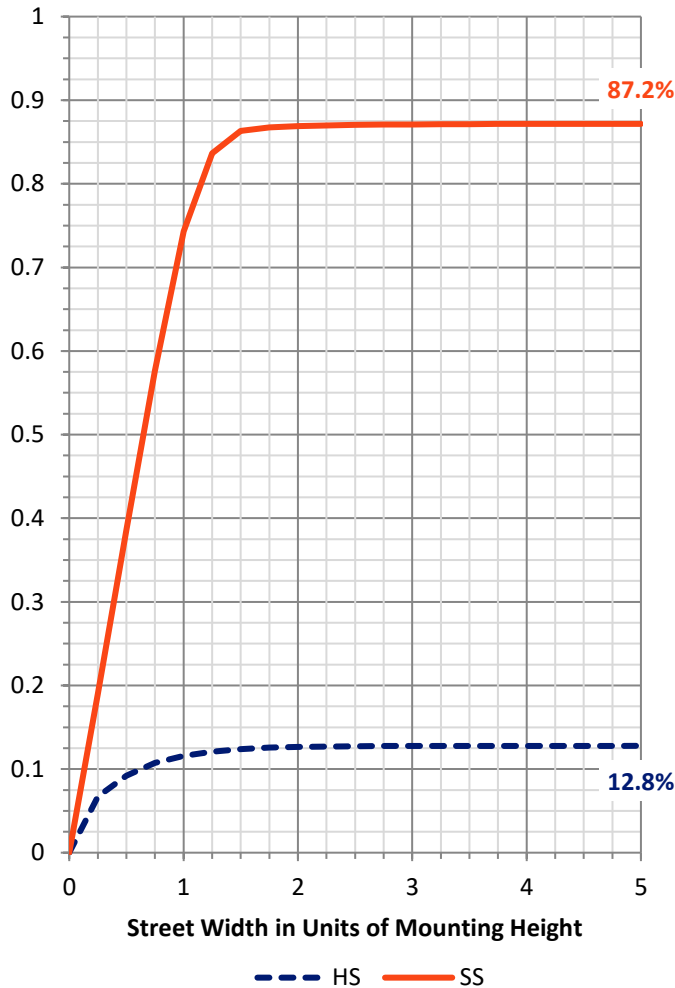
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	600.5	0.0	600.5
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4073.3	0.0	4073.3
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	4673.8	0.0	4673.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	2.8
10°-20°	338.9	7.3
20°-30°	559.3	12.0
30°-40°	923.0	19.7
40°-50°	1460.4	31.2
50°-60°	1105.7	23.7
60°-70°	138.4	3.0
70°-80°	15.7	0.3
80°-90°	1.2	0.0
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°	4673.8	100.0
0°-180°	4673.8	100.0

**Coefficient of Utilization**



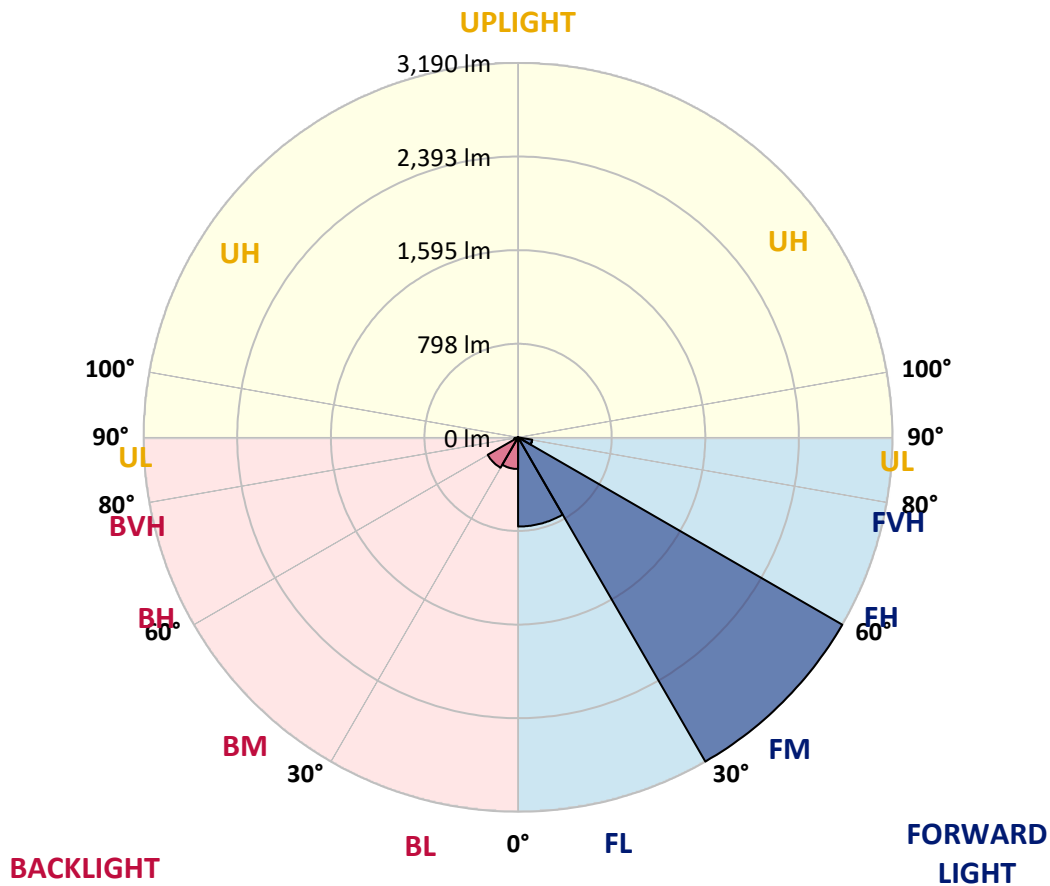
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.0	16.3			
FM (30°-60°)	3190.4	68.3			
FH (60°-80°)	122.3	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	269.5	5.8	B1/500		
BM (30°-60°)	298.6	6.4	B1/1000		
BH (60°-80°)	31.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1613.5	1626.4	1622.8	1605.9	1587.7	1574.8	1554.8	1548.5	1503.2	1471.6	1438.2
5°	1808.3	1812.3	1807.9	1787.4	1755.4	1724.7	1691.8	1672.7	1596.6	1528.1	1458.2
7.5°	1855.0	1850.2	1858.6	1868.8	1864.4	1851.0	1816.3	1795.4	1704.7	1593.0	1487.2
10°	1709.1	1698.0	1729.6	1782.5	1838.1	1900.9	1892.0	1893.8	1810.1	1674.9	1525.0
12.5°	1515.6	1511.2	1534.8	1596.1	1705.1	1847.5	1881.7	1939.1	1906.7	1763.4	1568.1
15°	1430.7	1432.9	1447.1	1485.8	1564.1	1741.2	1823.5	1927.1	1993.0	1849.3	1615.7
17.5°	1443.6	1451.6	1451.1	1464.0	1511.6	1653.5	1749.6	1889.3	2059.7	1948.0	1670.4
20°	1531.2	1539.2	1527.2	1517.4	1533.4	1631.3	1710.9	1851.0	2104.6	2047.7	1728.3
22.5°	1662.4	1671.8	1643.3	1615.3	1605.0	1667.8	1725.6	1835.5	2138.9	2138.9	1779.9
25°	1821.2	1834.1	1790.1	1740.3	1711.8	1744.7	1788.3	1870.6	2174.0	2220.7	1815.0
27.5°	1998.7	1999.2	1961.4	1905.3	1851.9	1855.9	1882.2	1949.8	2212.7	2308.8	1842.6
30°	2198.5	2199.8	2149.5	2082.4	2015.2	1997.0	2019.2	2070.4	2293.2	2419.6	1880.8
32.5°	2456.5	2462.7	2390.7	2291.9	2204.7	2170.5	2183.4	2237.2	2421.3	2558.4	1938.2
35°	2805.3	2811.9	2705.6	2575.3	2436.5	2384.9	2397.8	2452.0	2606.9	2755.4	2029.9
37.5°	3149.6	3158.5	3050.8	2929.4	2739.0	2653.6	2666.9	2718.5	2885.3	3027.7	2176.7
40°	3387.6	3399.6	3366.2	3284.4	3107.8	2995.7	3011.7	3030.4	3191.8	3353.3	2367.1
42.5°	3513.0	3529.9	3544.2	3586.0	3493.0	3399.1	3372.0	3373.3	3503.7	3685.2	2565.0
45°	3520.6	3537.0	3610.0	3771.5	3842.2	3822.6	3773.3	3739.9	3741.7	3906.3	2688.7
47.5°	3275.9	3306.6	3443.2	3759.5	4025.5	4187.9	4163.0	4083.8	3841.8	3921.0	2675.4
50°	2696.3	2726.5	2974.7	3429.8	3892.0	4333.8	4436.5	4330.2	3776.4	3738.1	2537.9
52.5°	1958.3	1961.4	2122.4	2654.0	3351.1	4064.6	4306.6	4296.4	3676.7	3516.6	2350.2
55°	930.2	919.1	1100.1	1497.8	2317.7	3287.5	3695.4	3811.1	3535.3	3356.4	2204.7
57.5°	270.9	276.3	356.8	584.5	1159.3	2101.1	2530.8	2746.1	2901.8	2759.4	1710.0
60°	121.4	121.9	135.7	177.9	386.1	977.3	1308.3	1574.8	1734.9	1607.7	848.3
62.5°	88.1	88.5	93.9	100.5	131.2	331.0	490.7	653.9	665.9	436.0	214.9
65°	73.4	73.4	74.3	74.3	78.7	118.3	149.0	192.2	161.9	120.1	84.1
67.5°	59.2	59.6	60.5	60.5	59.2	59.2	64.1	70.3	75.2	93.0	77.4
70°	46.3	45.8	45.8	46.3	44.9	38.3	41.4	47.2	51.6	72.5	67.2
72.5°	36.0	36.5	36.0	34.3	31.1	22.7	24.5	30.7	32.9	45.4	45.4
75°	27.1	27.6	25.8	19.6	12.9	7.1	9.3	15.1	19.1	22.2	16.5
77.5°	3.6	3.6	2.7	2.7	2.2	2.7	2.7	3.6	5.3	5.3	4.0
80°	0.4	0.4	0.4	0.9	1.3	1.8	1.8	1.8	1.8	2.2	2.2
82.5°	0.4	0.4	0.4	0.4	1.3	1.3	1.8	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.3	1.8	1.8	1.8
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°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1418.2	1392.4	1361.3	1339.9	1309.7	1289.6	1261.2	1242.0	1225.6	1212.7	1219.8
5°	1418.6	1377.7	1314.1	1259.8	1200.7	1146.4	1088.1	1042.3	1000.9	982.2	992.5
7.5°	1427.5	1368.8	1271.4	1174.9	1061.4	949.3	844.3	758.9	716.7	696.6	702.9
10°	1444.9	1364.8	1223.8	1063.6	879.5	726.4	624.6	566.7	543.2	530.7	532.9
12.5°	1460.9	1362.1	1162.0	917.3	694.0	563.6	510.7	502.7	507.6	508.0	507.6
15°	1482.7	1357.3	1085.4	766.9	555.2	487.1	488.5	500.0	511.6	515.1	514.3
17.5°	1505.8	1349.7	986.7	622.8	471.1	464.9	480.4	496.0	507.6	509.4	509.8
20°	1529.9	1334.1	874.1	508.5	432.0	448.0	465.3	476.9	485.3	488.0	488.9
22.5°	1541.0	1301.2	744.2	426.6	405.7	427.1	440.0	455.1	457.8	448.0	449.7
25°	1535.2	1245.6	617.5	371.5	379.5	400.8	419.9	412.4	401.3	394.1	396.4
27.5°	1517.0	1171.7	493.3	331.0	351.4	378.6	380.8	372.3	370.6	364.8	366.6
30°	1497.4	1086.8	396.8	298.5	323.0	351.4	344.8	347.9	348.3	341.6	343.9
32.5°	1485.4	997.8	315.8	276.7	304.7	310.1	323.4	329.6	330.1	314.5	317.2
35°	1489.4	910.2	267.4	258.9	287.8	286.5	305.2	308.7	282.9	261.6	263.8
37.5°	1521.9	829.2	239.8	245.1	258.5	268.7	282.9	259.4	253.6	243.8	245.1
40°	1582.4	760.3	223.3	236.7	238.4	254.9	233.1	236.2	236.7	230.4	231.8
42.5°	1653.1	702.9	213.5	231.8	227.3	230.0	208.2	214.4	221.1	218.4	218.9
45°	1688.7	646.8	205.1	214.9	216.2	190.8	185.9	192.6	201.1	202.4	202.9
47.5°	1657.1	593.4	196.2	190.4	199.3	173.9	168.2	170.4	180.2	185.5	186.4
50°	1560.6	532.0	182.8	168.6	163.7	156.1	150.8	151.3	162.4	171.7	173.5
52.5°	1424.9	468.0	161.0	142.8	131.7	137.5	138.8	136.1	146.4	155.7	157.5
55°	1293.2	387.9	127.7	116.1	105.9	118.3	121.9	118.3	121.4	127.7	128.1
57.5°	910.6	219.3	97.9	96.1	87.6	101.4	107.2	101.9	96.5	100.5	101.4
60°	422.2	114.8	75.2	75.2	73.0	87.2	97.0	89.4	79.2	81.0	82.3
62.5°	132.1	72.5	55.2	52.0	59.6	74.3	82.3	74.7	62.7	62.7	64.5
65°	74.7	62.3	43.6	40.0	48.5	59.6	64.5	56.5	45.8	44.9	44.9
67.5°	69.4	59.2	38.7	32.5	34.3	38.3	40.0	34.7	31.6	31.1	31.6
70°	57.4	49.4	31.1	22.2	20.9	20.5	21.4	20.0	19.1	19.6	20.9
72.5°	35.6	29.8	19.6	13.3	11.6	11.1	11.1	11.1	10.7	10.7	10.7
75°	12.9	11.1	8.9	6.7	5.8	5.3	5.3	5.8	5.3	4.9	4.4
77.5°	4.0	3.6	3.6	3.6	3.1	2.7	2.2	2.2	1.8	1.3	1.3
80°	2.2	2.2	2.2	2.2	1.8	1.8	1.3	0.9	0.4	0.4	0.0
82.5°	2.2	2.2	2.2	1.8	1.8	1.8	1.3	0.9	0.4	0.0	0.0
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.3	0.9	0.4	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.3	0.9	0.4	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)