

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: P631477

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631477  
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-827-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) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

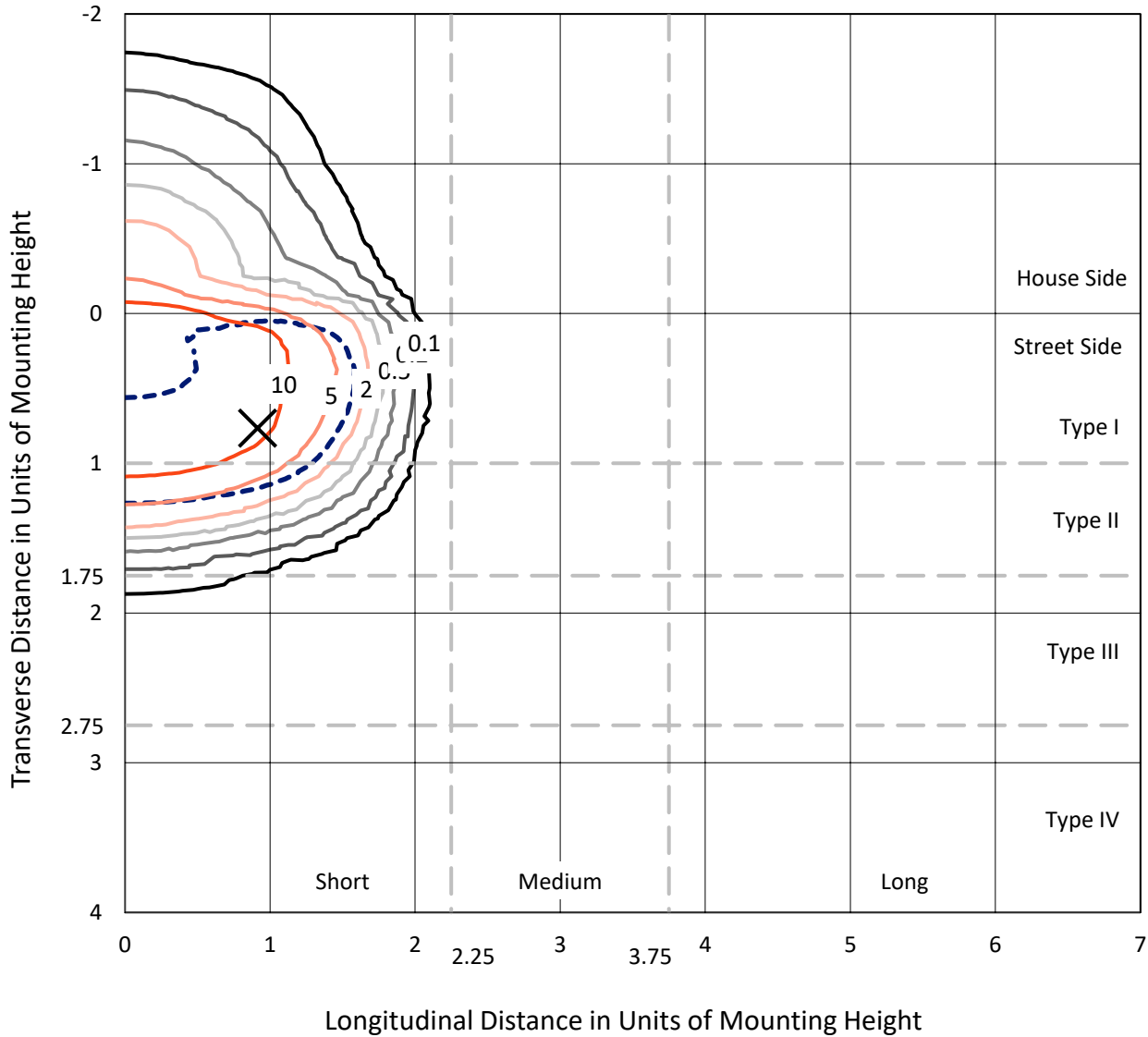
Lumens per Lamp: N/A  
Luminaire Lumens: 4664.4 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

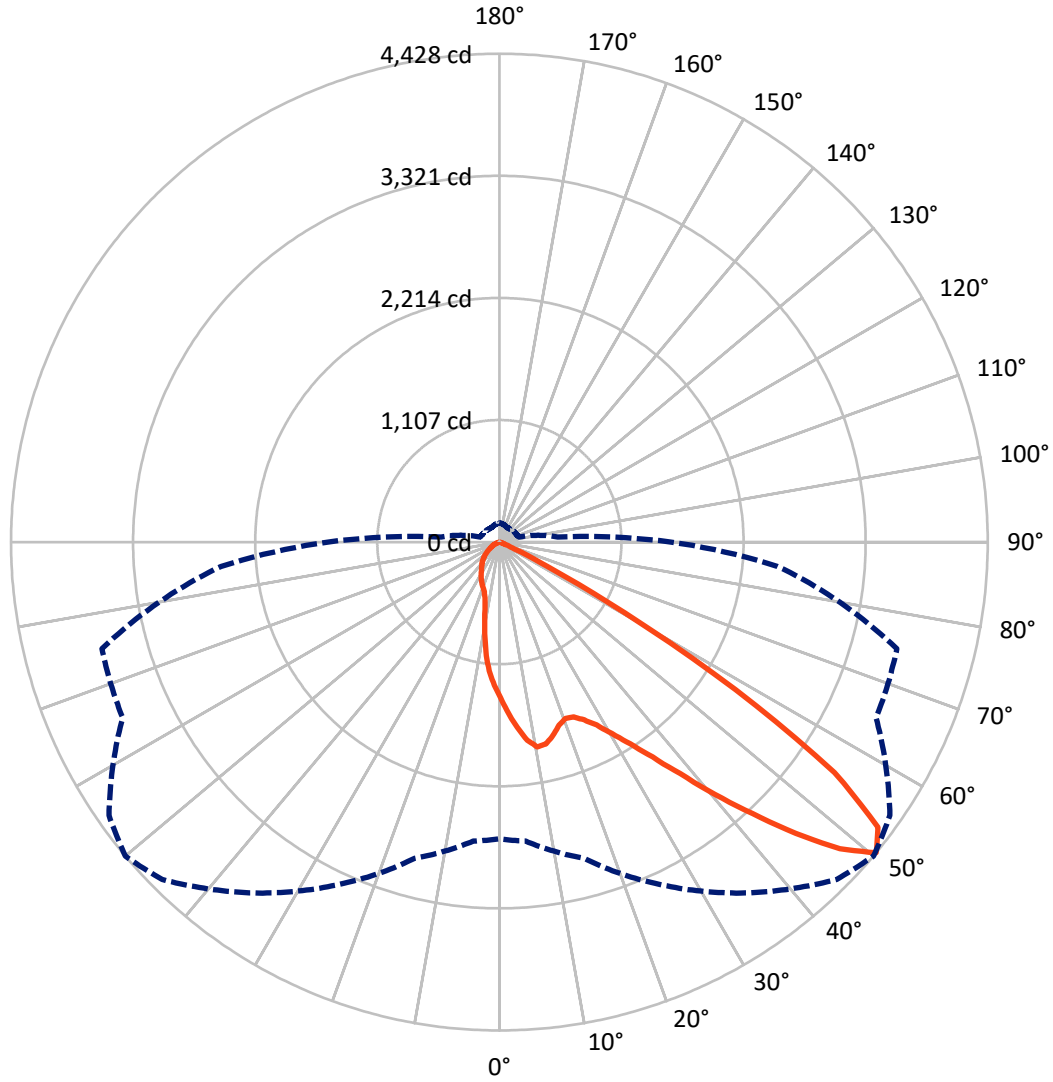
✕ Max cd  
 - - - 1/2 Max cd



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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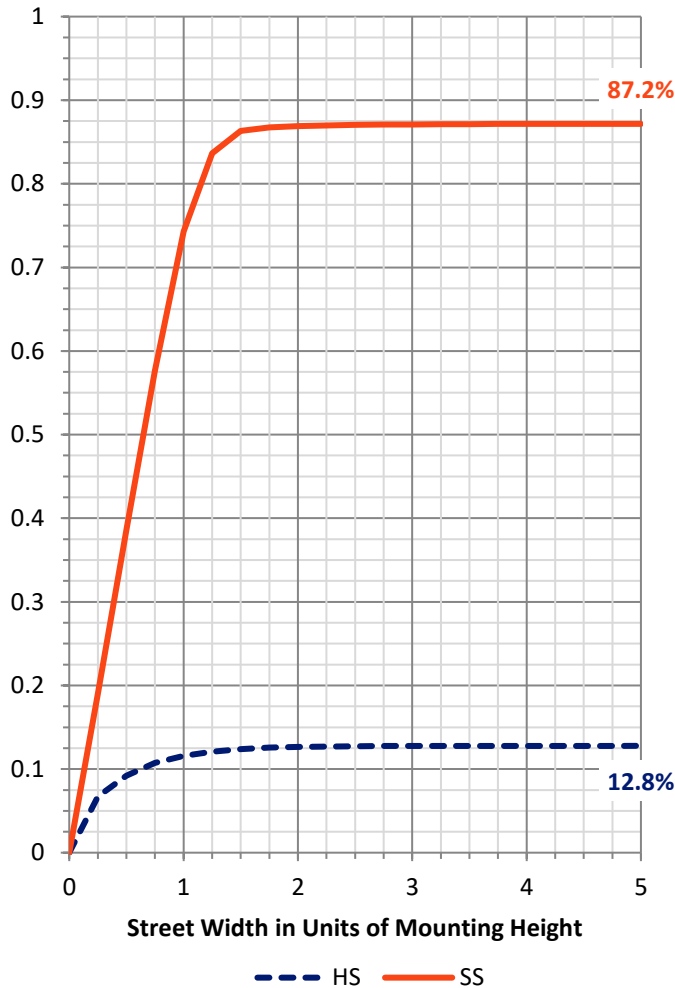
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	599.3	0.0	599.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4065.1	0.0	4065.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	4664.4	0.0	4664.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	2.8
10°-20°	338.2	7.3
20°-30°	558.2	12.0
30°-40°	921.1	19.7
40°-50°	1457.4	31.2
50°-60°	1103.4	23.7
60°-70°	138.1	3.0
70°-80°	15.6	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°	4664.4	100.0
0°-180°	4664.4	100.0

**Coefficient of Utilization**



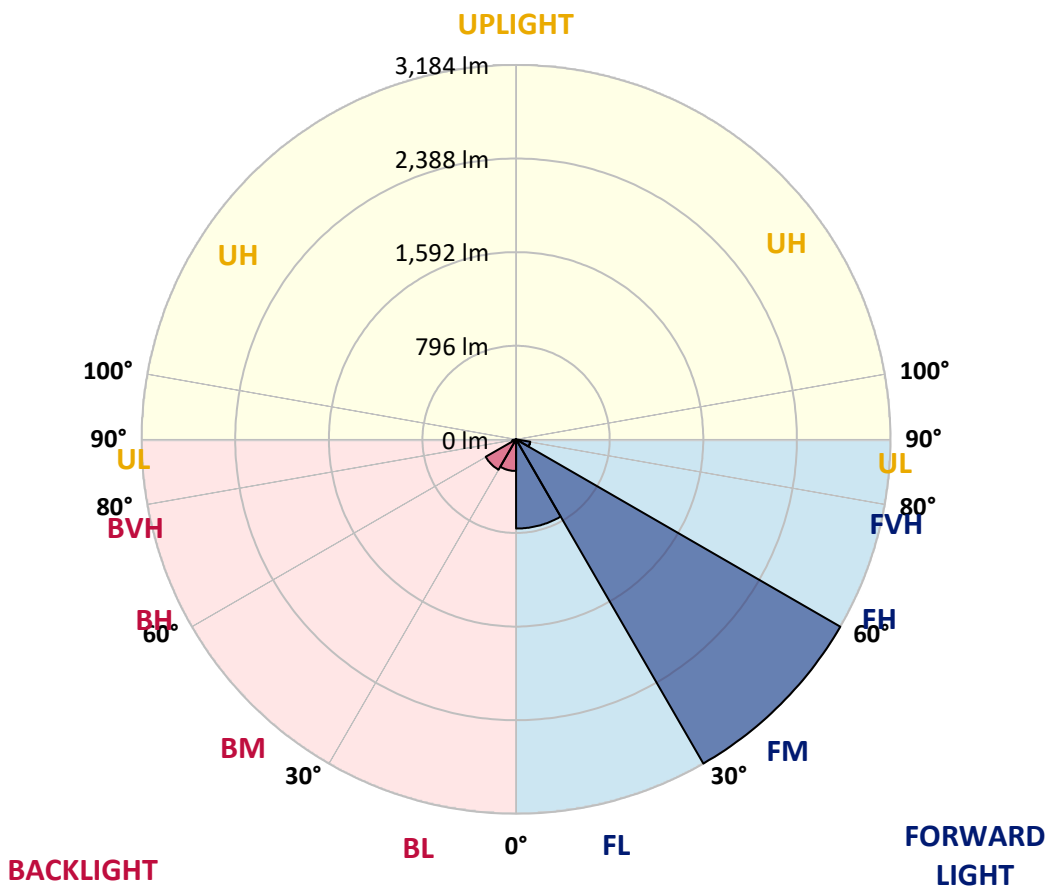
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.5	16.3			
FM (30°-60°)	3183.9	68.3			
FH (60°-80°)	122.1	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	269.0	5.8	B1/500		
BM (30°-60°)	298.0	6.4	B1/1000		
BH (60°-80°)	31.6	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°	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1
2.5°	1610.2	1623.1	1619.6	1602.7	1584.5	1571.6	1551.6	1545.4	1500.1	1468.6	1435.3
5°	1804.7	1808.7	1804.3	1783.8	1751.9	1721.2	1688.4	1669.3	1593.4	1525.0	1455.3
7.5°	1851.3	1846.4	1854.9	1865.1	1860.6	1847.3	1812.7	1791.8	1701.3	1589.8	1484.2
10°	1705.7	1694.6	1726.1	1779.0	1834.4	1897.0	1888.2	1889.9	1806.5	1671.5	1521.9
12.5°	1512.6	1508.1	1531.7	1592.9	1701.7	1843.8	1878.0	1935.2	1902.8	1759.9	1565.0
15°	1427.8	1430.0	1444.2	1482.8	1561.0	1737.7	1819.8	1923.2	1988.9	1845.5	1612.5
17.5°	1440.7	1448.6	1448.2	1461.1	1508.6	1650.2	1746.1	1885.5	2055.5	1944.1	1667.1
20°	1528.1	1536.1	1524.1	1514.4	1530.3	1628.0	1707.5	1847.3	2100.4	2043.6	1724.8
22.5°	1659.1	1668.4	1640.0	1612.0	1601.8	1664.4	1722.1	1831.8	2134.6	2134.6	1776.3
25°	1817.6	1830.5	1786.5	1736.8	1708.4	1741.2	1784.7	1866.9	2169.6	2216.3	1811.4
27.5°	1994.7	1995.2	1957.4	1901.5	1848.2	1852.2	1878.4	1945.9	2208.3	2304.2	1838.9
30°	2194.1	2195.4	2145.2	2078.2	2011.1	1992.9	2015.1	2066.2	2288.6	2414.7	1877.1
32.5°	2451.6	2457.8	2385.8	2287.3	2200.3	2166.1	2179.0	2232.7	2416.5	2553.2	1934.3
35°	2799.6	2806.3	2700.2	2570.1	2431.6	2380.1	2392.9	2447.1	2601.6	2749.9	2025.8
37.5°	3143.2	3152.1	3044.7	2923.5	2733.5	2648.2	2661.5	2713.0	2879.5	3021.6	2172.3
40°	3380.8	3392.7	3359.5	3277.8	3101.5	2989.6	3005.6	3024.3	3185.4	3346.6	2362.3
42.5°	3506.0	3522.8	3537.0	3578.8	3486.0	3392.3	3365.2	3366.6	3496.6	3677.8	2559.9
45°	3513.5	3529.9	3602.7	3763.9	3834.5	3815.0	3765.7	3732.4	3734.2	3898.4	2683.3
47.5°	3269.3	3300.0	3436.3	3751.9	4017.4	4179.4	4154.6	4075.6	3834.0	3913.1	2670.0
50°	2690.8	2721.0	2968.8	3422.9	3884.2	4325.1	4427.6	4321.5	3768.8	3730.6	2532.8
52.5°	1954.3	1957.4	2118.1	2648.7	3344.4	4056.5	4298.0	4287.8	3669.3	3509.5	2345.4
55°	928.3	917.2	1097.9	1494.8	2313.0	3280.9	3688.0	3803.4	3528.2	3349.7	2200.3
57.5°	270.4	275.7	356.1	583.4	1157.0	2096.8	2525.7	2740.6	2896.0	2753.9	1706.6
60°	121.2	121.6	135.4	177.6	385.4	975.4	1305.7	1571.6	1731.4	1604.5	846.6
62.5°	87.9	88.3	93.7	100.3	131.0	330.3	489.7	652.6	664.6	435.1	214.4
65°	73.3	73.3	74.1	74.1	78.6	118.1	148.7	191.8	161.6	119.9	83.9
67.5°	59.0	59.5	60.4	60.4	59.0	59.0	63.9	70.1	75.0	92.8	77.2
70°	46.2	45.7	45.7	46.2	44.8	38.2	41.3	47.1	51.5	72.4	67.0
72.5°	36.0	36.4	36.0	34.2	31.1	22.6	24.4	30.6	32.9	45.3	45.3
75°	27.1	27.5	25.7	19.5	12.9	7.1	9.3	15.1	19.1	22.2	16.4
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°	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1	1413.1
2.5°	1415.3	1389.6	1358.5	1337.2	1307.0	1287.0	1258.6	1239.5	1223.1	1210.2	1217.3
5°	1415.8	1374.9	1311.5	1257.3	1198.3	1144.1	1085.9	1040.2	998.9	980.3	990.5
7.5°	1424.7	1366.1	1268.8	1172.5	1059.3	947.4	842.6	757.4	715.2	695.2	701.5
10°	1442.0	1362.1	1221.3	1061.5	877.7	725.0	623.3	565.6	542.1	529.6	531.9
12.5°	1458.0	1359.4	1159.6	915.4	692.6	562.5	509.7	501.7	506.6	507.0	506.6
15°	1479.7	1354.5	1083.3	765.4	554.1	486.1	487.5	499.0	510.6	514.1	513.2
17.5°	1502.8	1347.0	984.7	621.5	470.2	463.9	479.5	495.0	506.6	508.3	508.8
20°	1526.8	1331.4	872.4	507.4	431.1	447.1	464.4	475.9	484.4	487.0	487.9
22.5°	1537.9	1298.6	742.7	425.8	404.9	426.2	439.1	454.2	456.8	447.1	448.8
25°	1532.1	1243.1	616.2	370.7	378.7	400.0	419.1	411.6	400.5	393.3	395.6
27.5°	1513.9	1169.4	492.4	330.3	350.7	377.8	380.0	371.6	369.8	364.0	365.8
30°	1494.4	1084.6	396.0	297.9	322.3	350.7	344.1	347.2	347.6	341.0	343.2
32.5°	1482.4	995.8	315.2	276.1	304.1	309.4	322.8	329.0	329.4	313.9	316.5
35°	1486.4	908.3	266.8	258.4	287.2	285.9	304.6	308.1	282.4	261.0	263.3
37.5°	1518.8	827.5	239.3	244.6	257.9	268.2	282.4	258.8	253.1	243.3	244.6
40°	1579.2	758.7	222.9	236.2	238.0	254.4	232.6	235.7	236.2	230.0	231.3
42.5°	1649.8	701.5	213.1	231.3	226.9	229.5	207.8	214.0	220.6	218.0	218.4
45°	1685.3	645.5	204.7	214.4	215.8	190.5	185.6	192.2	200.7	202.0	202.4
47.5°	1653.8	592.2	195.8	190.0	198.9	173.6	167.8	170.0	179.8	185.1	186.0
50°	1557.4	531.0	182.5	168.3	163.4	155.8	150.5	150.9	162.0	171.4	173.1
52.5°	1422.0	467.0	160.7	142.5	131.4	137.2	138.5	135.9	146.1	155.4	157.2
55°	1290.6	387.1	127.4	115.9	105.7	118.1	121.6	118.1	121.2	127.4	127.9
57.5°	908.8	218.9	97.7	95.9	87.5	101.2	107.0	101.7	96.3	100.3	101.2
60°	421.3	114.5	75.0	75.0	72.8	87.0	96.8	89.2	79.0	80.8	82.1
62.5°	131.9	72.4	55.1	51.9	59.5	74.1	82.1	74.6	62.6	62.6	64.4
65°	74.6	62.2	43.5	40.0	48.4	59.5	64.4	56.4	45.7	44.8	44.8
67.5°	69.3	59.0	38.6	32.4	34.2	38.2	40.0	34.6	31.5	31.1	31.5
70°	57.3	49.3	31.1	22.2	20.9	20.4	21.3	20.0	19.1	19.5	20.9
72.5°	35.5	29.7	19.5	13.3	11.5	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)