

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: P630078

Luminaire Tested: GWS-SA1C-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-830-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

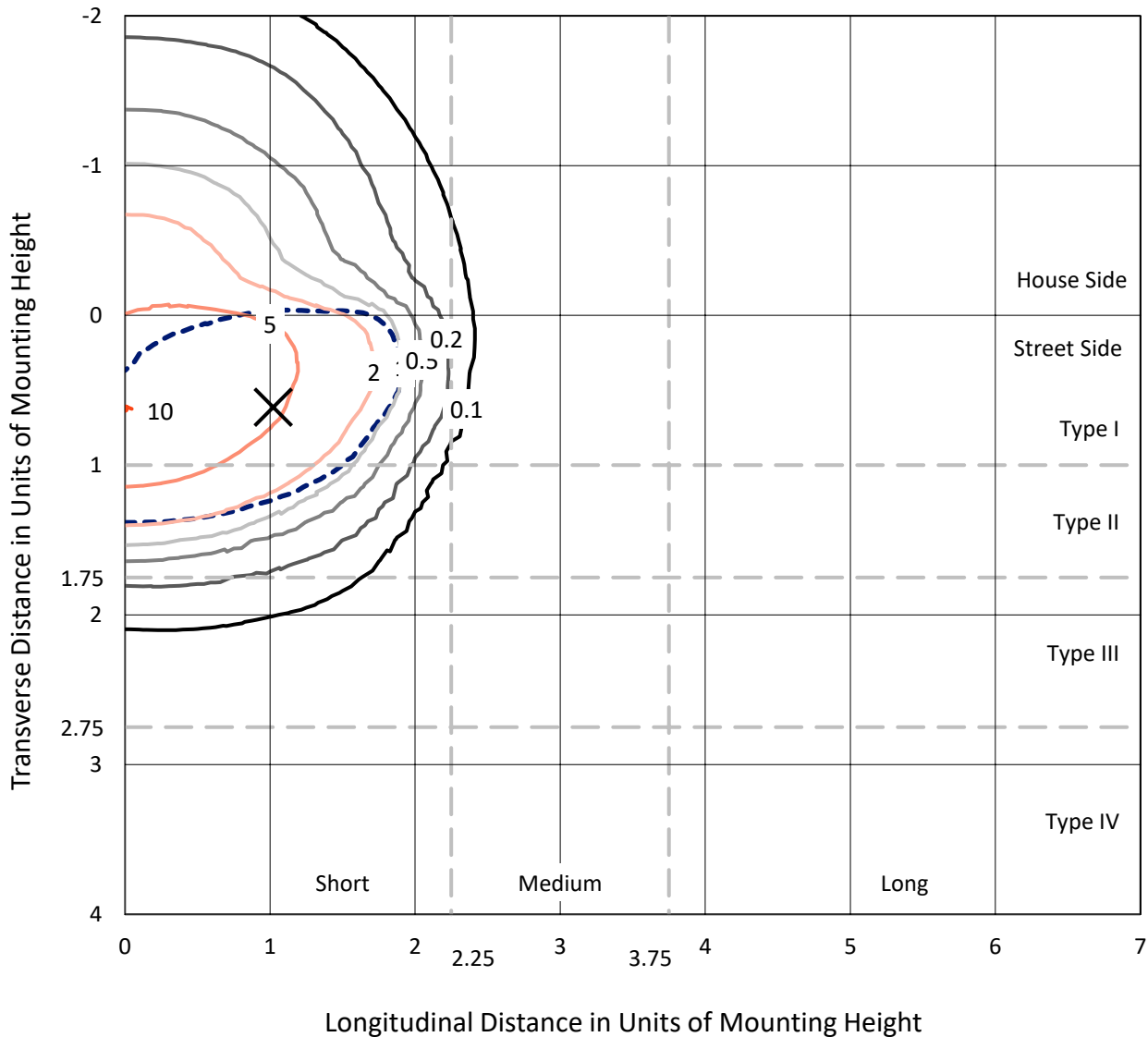
Lumens per Lamp: N/A  
Luminaire Lumens: 3360.5 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

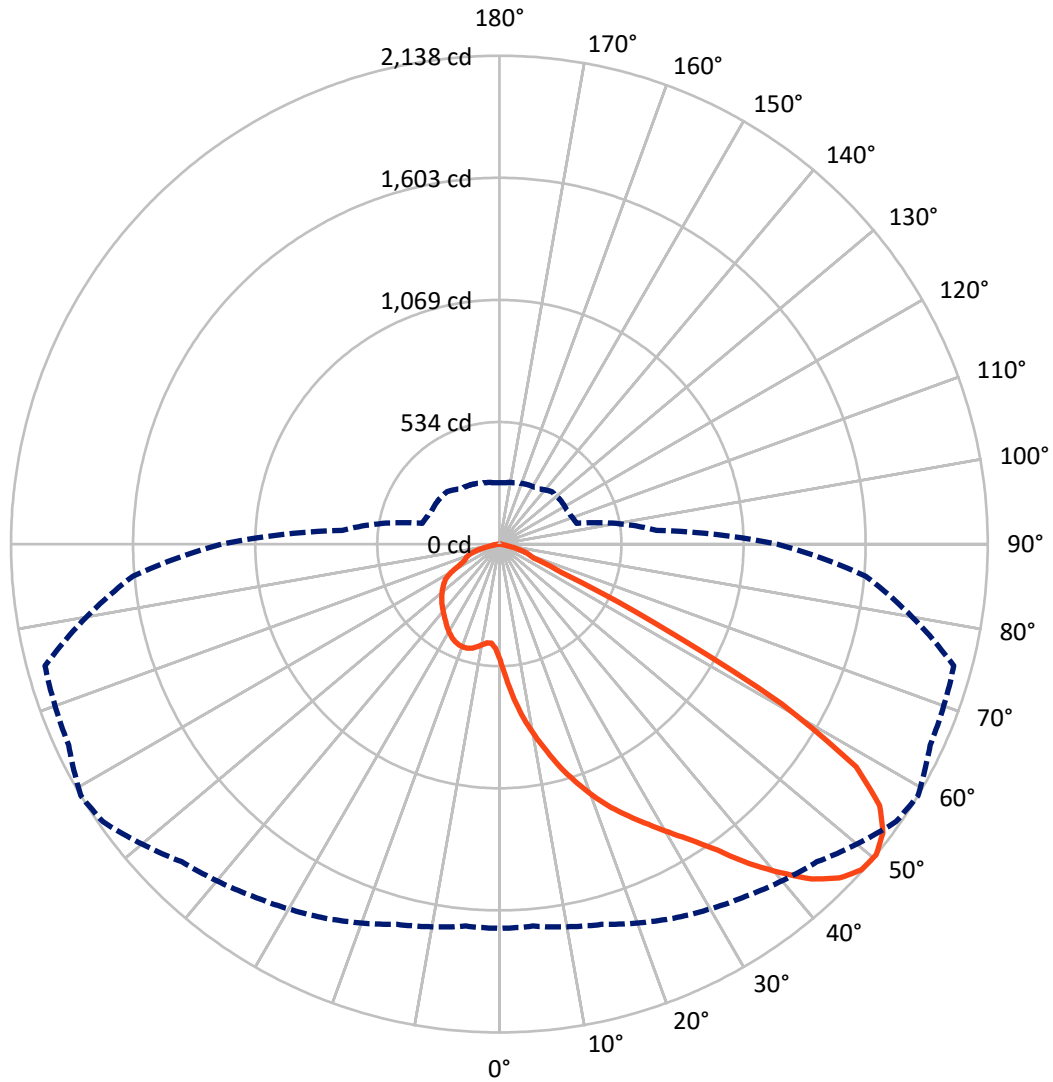
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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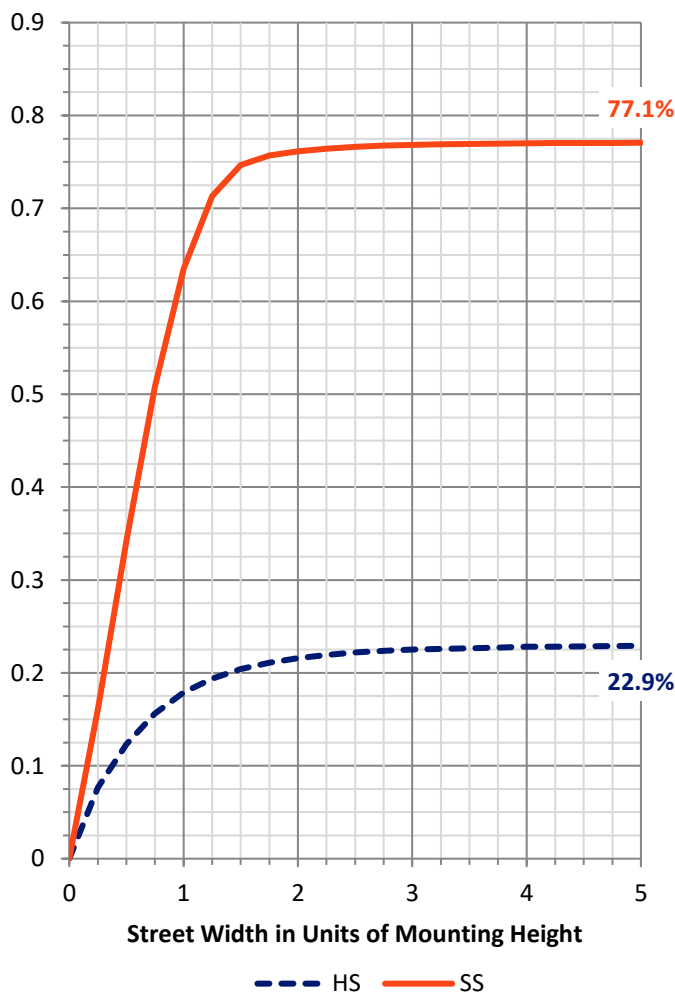
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	773.0	0.0	773.0
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2587.5	0.0	2587.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	3360.5	0.0	3360.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	1.7
10°-20°	207.3	6.2
20°-30°	392.6	11.7
30°-40°	651.1	19.4
40°-50°	889.4	26.5
50°-60°	807.4	24.0
60°-70°	268.9	8.0
70°-80°	78.4	2.3
80°-90°	8.2	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°	3360.5	100.0
0°-180°	3360.5	100.0

**Coefficient of Utilization**



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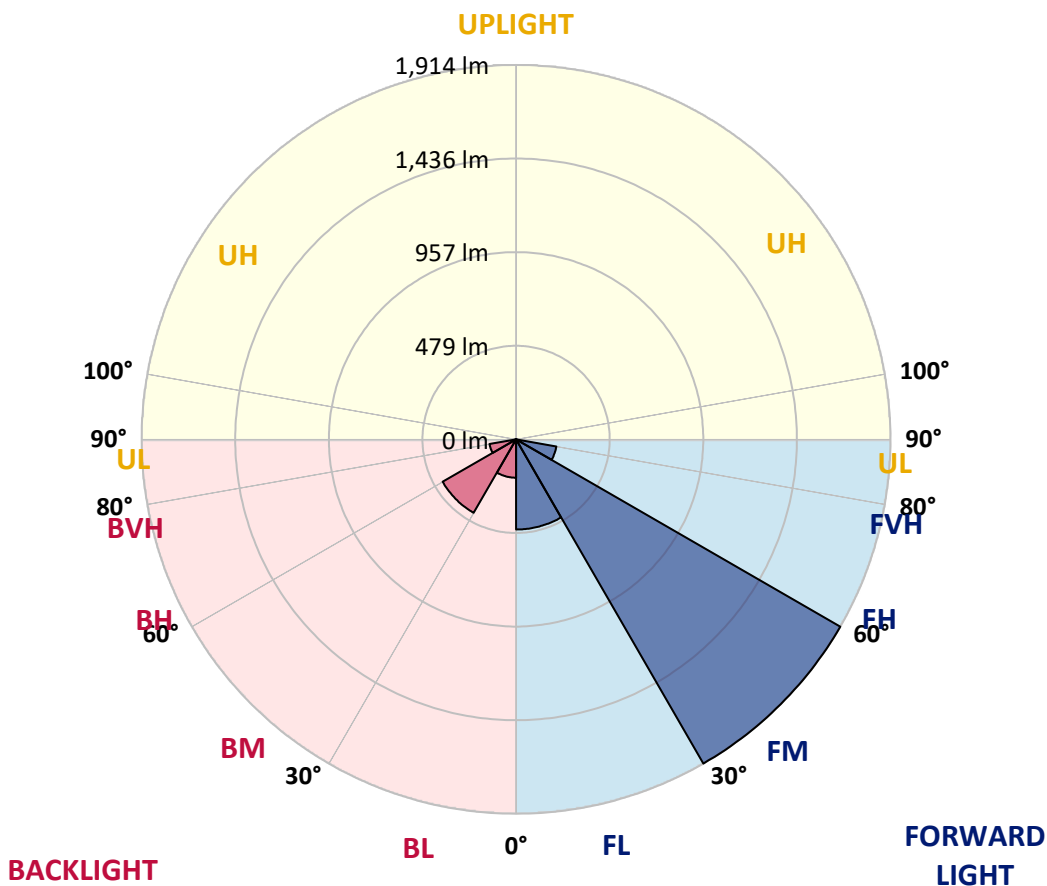
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.8	13.7			
FM (30°-60°)	1914.2	57.0			
FH (60°-80°)	209.3	6.2			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	196.3	5.8	B1/500		
BM (30°-60°)	433.7	12.9	B1/1000		
BH (60°-80°)	138.0	4.1	B1/500		G1/500
BVH (80°-90°)	5.0	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°	55°	59°	65°	75°	85°
0°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1
2.5°	659.7	664.6	657.0	657.5	638.3	629.6	604.9	590.4	580.9	554.0	529.7
5°	792.7	787.0	781.0	777.4	760.7	737.2	706.5	682.1	659.7	607.1	556.5
7.5°	874.3	871.3	867.2	865.0	848.6	823.9	793.3	772.5	739.9	668.7	589.1
10°	943.6	940.0	937.5	939.2	925.8	909.9	876.5	852.7	816.0	733.9	628.5
12.5°	997.2	999.1	999.9	1008.7	1003.0	993.4	958.9	933.7	892.9	802.6	674.7
15°	1039.6	1039.1	1048.7	1065.4	1074.7	1068.6	1041.0	1019.9	970.1	870.2	724.6
17.5°	1049.5	1050.0	1065.1	1094.4	1124.8	1139.5	1123.9	1098.8	1049.5	937.0	776.3
20°	1057.4	1058.5	1074.1	1107.5	1151.9	1193.2	1195.7	1177.6	1135.2	1009.2	828.9
22.5°	1107.5	1110.0	1114.1	1135.2	1175.1	1227.4	1256.2	1252.3	1216.7	1085.1	885.5
25°	1239.2	1231.8	1211.8	1205.8	1221.1	1263.5	1312.5	1319.9	1302.4	1168.6	946.6
27.5°	1401.8	1393.8	1364.3	1333.1	1299.9	1314.7	1367.0	1389.2	1389.5	1260.5	1007.9
30°	1549.3	1543.0	1518.9	1474.3	1417.1	1395.8	1434.4	1464.2	1482.0	1366.7	1077.7
32.5°	1675.5	1669.8	1637.2	1600.8	1544.9	1502.0	1515.9	1544.7	1586.3	1504.2	1164.5
35°	1781.7	1776.0	1744.8	1708.1	1656.3	1630.6	1625.7	1645.4	1699.3	1647.6	1264.1
37.5°	1867.9	1862.2	1829.6	1795.1	1755.7	1757.4	1764.7	1774.3	1805.3	1801.1	1370.6
40°	1923.8	1917.8	1894.5	1869.9	1844.9	1864.7	1901.3	1889.8	1906.3	1925.1	1468.6
42.5°	1948.7	1941.0	1927.6	1922.1	1914.5	1945.1	2015.8	2004.3	1984.5	2007.8	1541.4
45°	1923.8	1917.2	1916.9	1933.6	1951.4	1990.8	2094.9	2085.6	2035.7	2047.8	1584.9
47.5°	1847.4	1841.7	1857.3	1901.1	1944.9	2002.3	2130.2	2131.8	2072.1	2064.5	1613.1
50°	1682.4	1678.5	1723.7	1806.6	1882.2	1966.5	2119.0	2137.8	2080.9	2059.3	1609.5
52.5°	1346.8	1364.5	1462.8	1601.3	1748.0	1903.5	2077.3	2102.0	2038.7	2025.1	1590.4
55°	921.9	930.1	1028.4	1230.7	1463.4	1767.2	1981.8	2019.9	1988.9	2019.3	1610.4
57.5°	477.4	484.0	561.4	741.0	992.5	1396.6	1716.6	1841.4	1888.5	2048.3	1672.5
60°	196.0	201.5	233.5	320.3	500.7	813.3	1235.3	1420.4	1531.0	1870.7	1485.3
62.5°	142.3	145.1	160.4	191.1	262.2	398.6	699.1	767.3	845.0	1172.4	943.0
65°	119.9	122.9	135.2	153.8	191.3	244.4	298.6	300.3	330.9	477.7	349.6
67.5°	100.5	103.2	114.1	130.0	154.7	173.5	160.4	160.7	160.1	173.3	167.5
70°	78.3	80.5	91.4	108.4	121.3	111.4	125.4	138.8	133.0	138.2	146.2
72.5°	57.2	59.7	69.3	82.1	78.8	79.4	101.6	115.2	112.0	117.7	125.1
75°	41.3	43.0	47.9	41.1	43.2	52.3	71.4	78.8	82.1	87.0	93.6
77.5°	13.4	13.4	15.1	18.9	23.5	29.0	36.4	39.4	44.3	49.8	54.5
80°	6.8	7.1	8.5	10.4	13.1	16.7	21.4	22.7	25.2	28.2	30.1
82.5°	3.3	3.6	4.1	5.2	6.8	8.8	11.8	13.1	14.8	16.7	18.1
85°	0.8	0.8	1.1	1.6	2.2	3.3	4.4	5.2	6.6	7.9	8.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.1	1.4	1.6	2.2
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°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1
2.5°	518.7	503.4	483.7	467.0	451.7	439.9	429.8	424.8	420.2	416.9	418.0
5°	533.0	506.7	470.0	444.5	428.9	421.0	415.5	412.8	412.2	410.0	409.2
7.5°	553.8	516.3	467.3	441.5	431.1	427.0	424.0	422.4	423.2	421.0	420.2
10°	579.5	532.1	474.1	451.4	442.3	439.3	436.1	433.9	432.8	429.5	428.9
12.5°	611.5	551.8	486.4	464.0	454.9	449.7	445.4	441.5	439.1	435.0	433.9
15°	646.0	573.7	500.9	476.3	465.6	458.0	450.8	445.1	440.7	435.2	434.4
17.5°	683.5	596.7	513.0	484.8	471.1	461.0	450.6	442.1	436.1	428.9	428.1
20°	722.6	620.0	522.0	488.9	471.4	457.7	443.7	432.5	424.8	417.7	417.2
22.5°	763.2	641.4	527.5	487.8	467.0	450.0	433.3	420.7	411.7	403.2	402.7
25°	803.9	661.9	528.8	483.4	458.2	438.5	421.8	407.0	396.9	387.3	386.2
27.5°	845.3	679.1	525.6	474.6	446.5	425.1	408.4	393.9	383.5	373.9	372.3
30°	889.4	693.9	518.4	463.2	432.8	410.9	394.4	383.5	373.6	364.1	362.4
32.5°	936.4	706.8	508.3	449.2	416.9	396.6	384.6	374.7	364.9	356.4	354.8
35°	992.5	715.3	493.3	431.1	402.1	386.2	378.0	366.5	354.5	345.2	344.4
37.5°	1050.6	721.8	475.2	413.9	389.2	380.2	373.4	357.8	342.7	331.5	330.1
40°	1106.7	727.3	452.8	397.7	377.5	375.8	366.5	347.1	321.1	308.5	307.4
42.5°	1159.0	728.9	429.2	380.5	366.8	366.0	355.6	325.5	305.5	297.5	296.5
45°	1194.8	727.6	404.8	364.3	356.1	351.7	340.8	309.9	297.5	290.4	289.1
47.5°	1221.4	720.5	377.5	347.4	344.1	338.1	314.5	300.0	288.5	281.4	280.0
50°	1216.7	690.9	349.8	330.9	329.6	324.4	295.4	287.7	277.6	269.9	268.8
52.5°	1192.6	634.8	321.6	312.9	315.6	305.5	281.7	272.9	264.2	255.4	253.5
55°	1198.7	594.3	300.3	295.4	300.3	277.3	266.3	257.0	248.8	240.3	238.7
57.5°	1224.9	554.3	277.6	276.5	281.7	255.7	246.6	234.9	223.1	216.2	216.2
60°	1028.7	404.0	237.6	240.3	252.1	238.1	230.2	218.2	205.3	199.3	199.3
62.5°	608.2	253.5	197.1	194.1	201.5	210.2	214.6	204.8	189.4	181.5	181.8
65°	268.0	184.5	173.8	171.4	169.2	175.2	187.2	188.1	171.9	162.6	162.9
67.5°	165.1	167.0	162.6	160.7	158.8	157.7	156.6	157.1	152.7	144.3	144.0
70°	148.9	154.1	151.1	149.5	147.0	145.1	138.5	127.8	120.4	118.3	120.7
72.5°	128.1	135.2	133.6	132.8	129.7	125.1	116.3	105.9	97.2	91.7	92.8
75°	96.6	102.4	103.2	103.5	100.2	95.8	86.8	78.0	70.3	64.6	66.0
77.5°	55.6	58.9	59.7	60.5	58.0	56.4	50.4	44.1	40.0	33.9	35.6
80°	30.9	32.3	32.3	32.6	31.2	29.3	25.2	21.6	19.7	17.0	17.2
82.5°	18.6	19.2	19.4	19.7	18.9	17.0	14.0	11.5	10.4	9.0	8.8
85°	9.0	9.6	9.6	9.9	8.5	7.4	5.7	4.4	3.8	2.7	3.0
87.5°	2.2	2.5	2.5	2.2	1.9	1.4	0.8	0.3	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)