

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: P629993

Luminaire Tested: GWS-SA1C-827-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-827-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

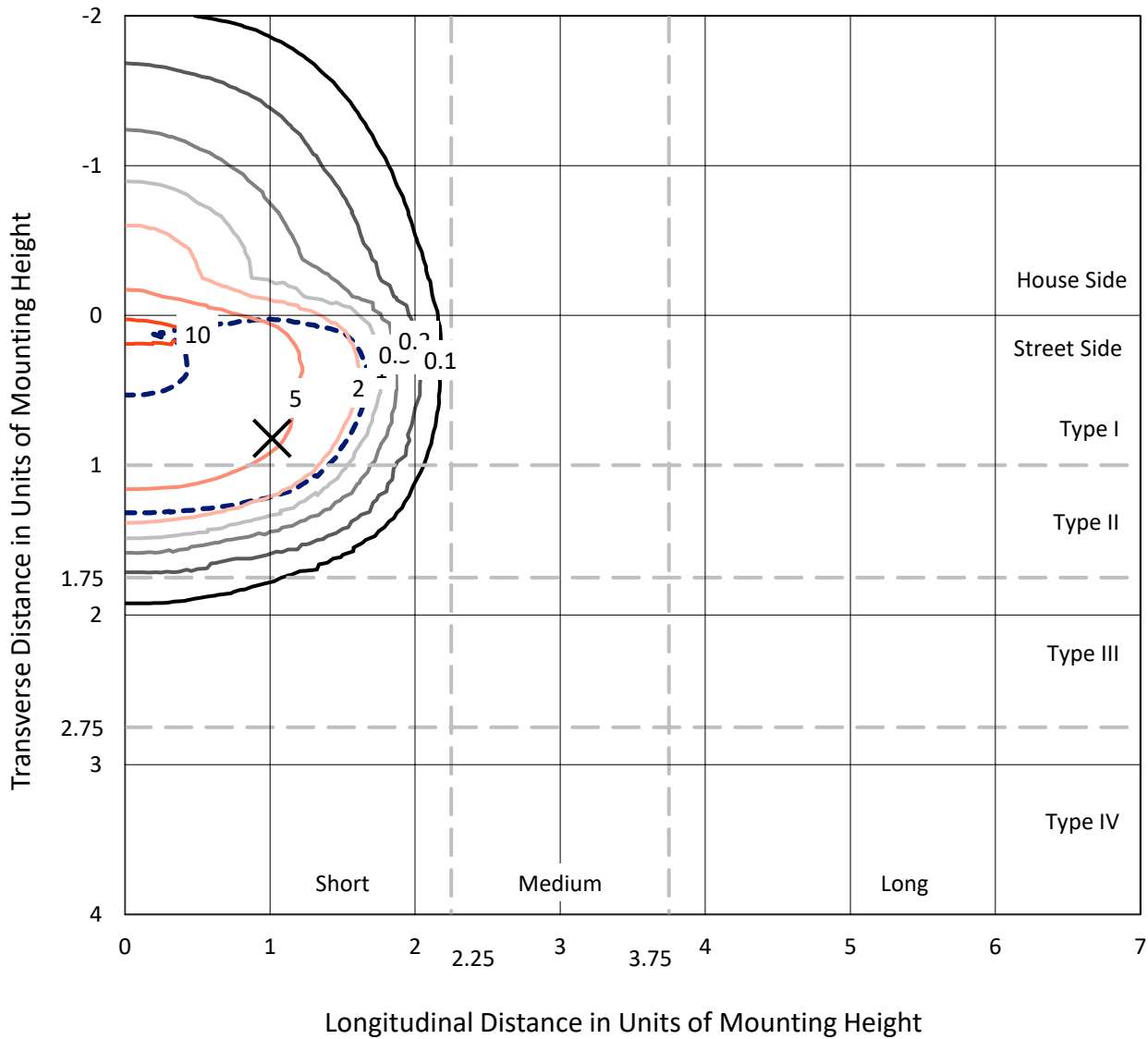
Lumens per Lamp: N/A  
Luminaire Lumens: 3205.5 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

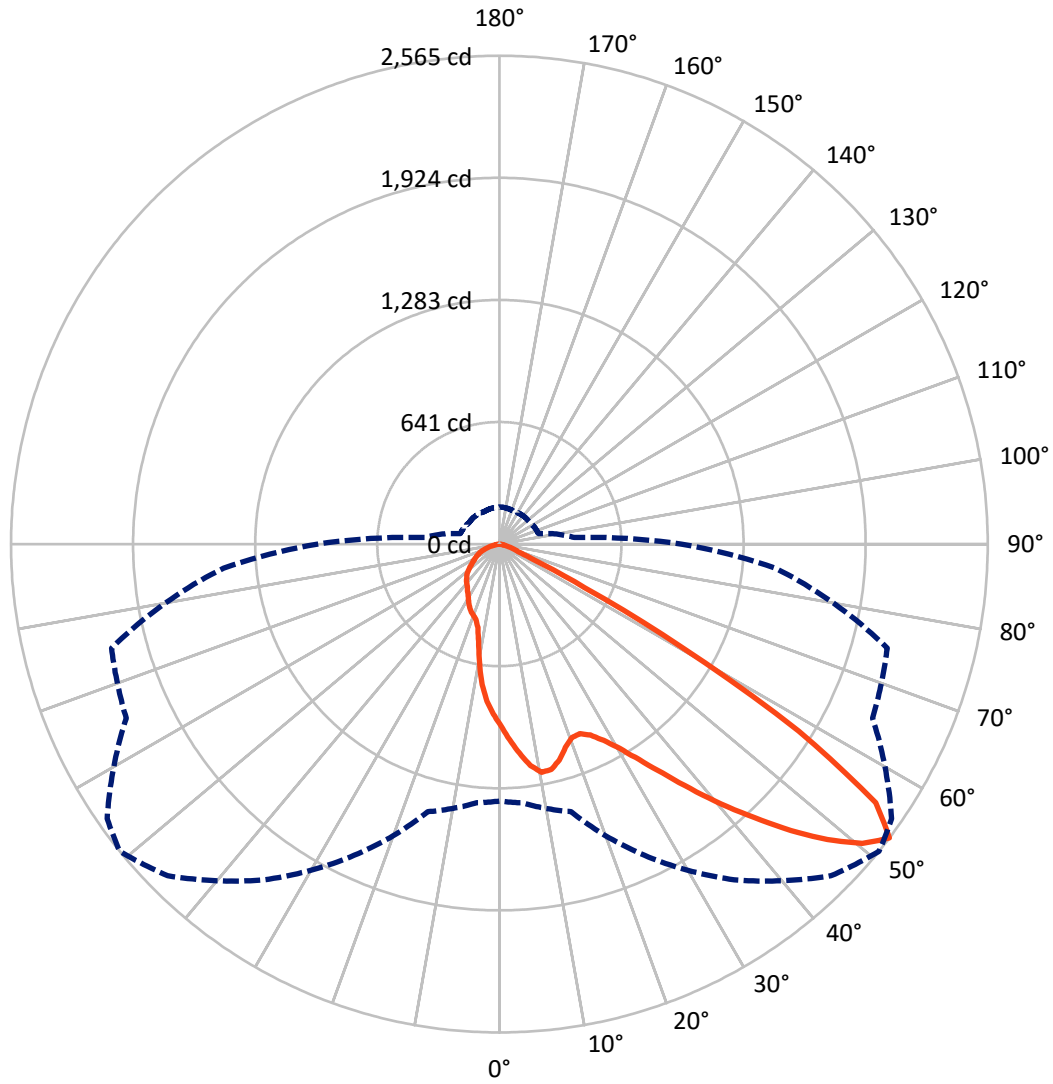
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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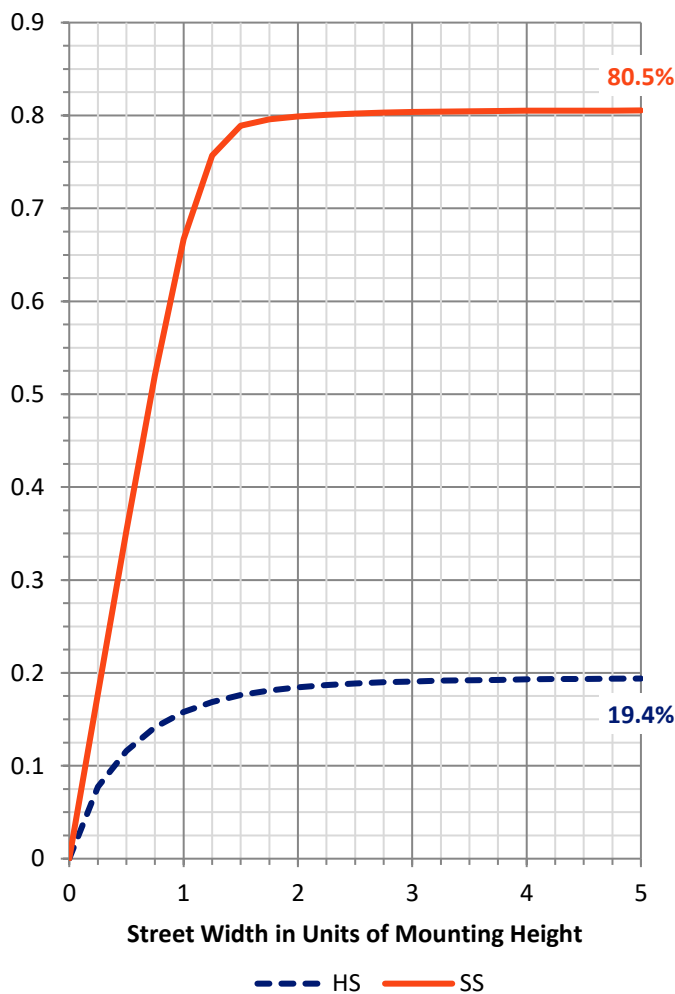
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	624.6	0.0	624.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	2580.9	0.0	2580.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3205.5	0.0	3205.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	2.8
10°-20°	231.4	7.2
20°-30°	376.3	11.7
30°-40°	596.3	18.6
40°-50°	899.4	28.1
50°-60°	778.0	24.3
60°-70°	176.4	5.5
70°-80°	52.0	1.6
80°-90°	6.7	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°	3205.5	100.0
0°-180°	3205.5	100.0

**Coefficient of Utilization**



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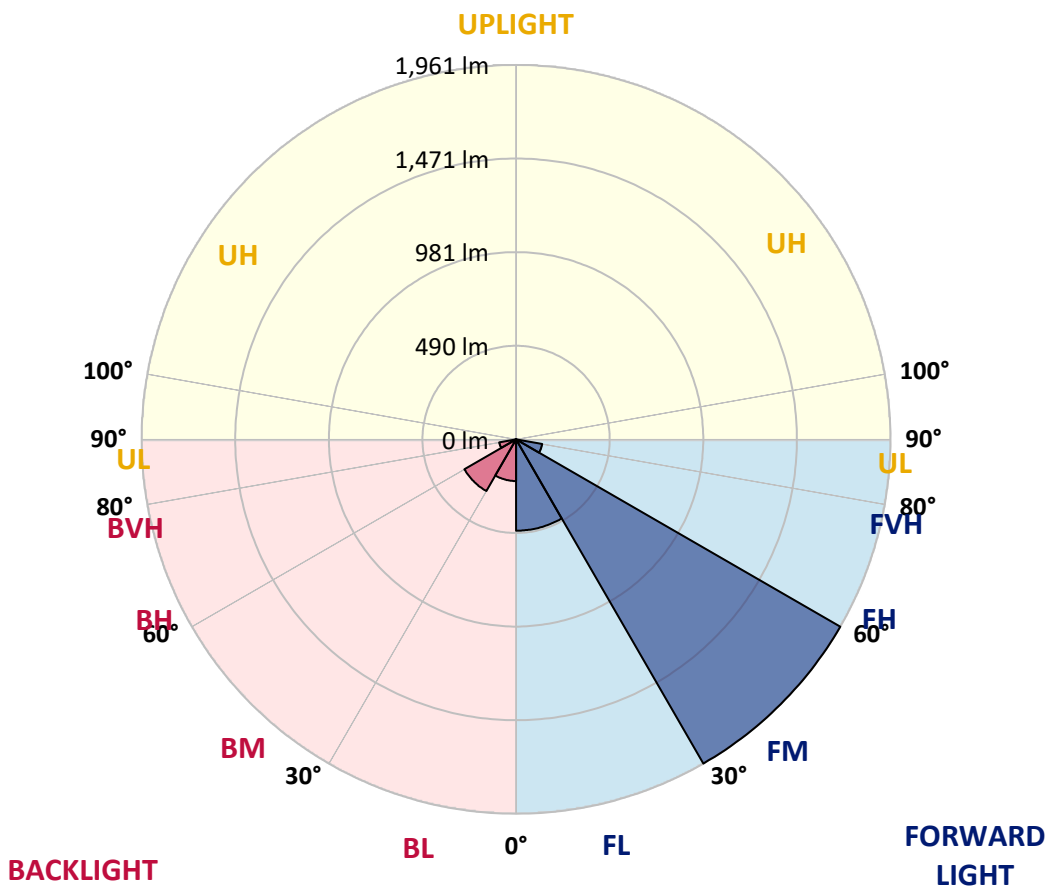
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.4	14.9			
FM (30°-60°)	1961.2	61.2			
FH (60°-80°)	138.8	4.3			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	218.3	6.8	B1/500		
BM (30°-60°)	312.5	9.7	B1/1000		
BH (60°-80°)	89.6	2.8	B0/110		G0/110
BVH (80°-90°)	4.2	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-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
2.5°	1063.6	1069.7	1060.3	1056.8	1050.9	1040.8	1029.2	1025.9	1000.8	984.3	965.8
5°	1170.5	1173.8	1166.2	1158.6	1144.2	1126.2	1103.6	1098.8	1053.2	1015.5	976.2
7.5°	1194.3	1193.0	1199.6	1203.9	1202.2	1195.1	1175.1	1165.7	1111.2	1051.5	993.4
10°	1100.1	1093.0	1117.3	1146.2	1180.9	1220.9	1218.6	1217.9	1170.5	1099.8	1015.5
12.5°	975.2	971.7	991.4	1027.6	1093.2	1181.9	1215.1	1240.9	1223.9	1145.9	1040.1
15°	903.8	902.5	915.9	942.0	994.2	1106.2	1177.1	1228.3	1269.8	1195.3	1066.1
17.5°	890.9	891.6	896.2	911.1	948.6	1040.8	1122.9	1194.3	1305.5	1249.5	1098.8
20°	928.6	933.7	925.8	928.1	948.4	1017.3	1085.9	1160.1	1328.3	1304.0	1134.0
22.5°	1012.4	1010.7	993.4	983.3	983.6	1031.7	1081.8	1144.2	1343.3	1356.9	1165.9
25°	1107.4	1105.4	1084.9	1062.3	1048.2	1071.0	1111.0	1161.1	1356.7	1405.3	1191.5
27.5°	1219.6	1213.3	1190.5	1161.6	1130.2	1140.1	1167.2	1207.0	1377.4	1452.9	1208.5
30°	1328.3	1335.7	1303.0	1268.8	1235.6	1229.5	1245.2	1281.2	1419.8	1508.7	1228.8
32.5°	1472.4	1469.9	1433.7	1389.1	1341.7	1337.2	1349.6	1382.5	1495.7	1585.7	1259.7
35°	1647.0	1647.5	1596.0	1535.8	1468.4	1456.2	1477.0	1508.9	1609.0	1690.0	1308.6
37.5°	1828.3	1827.6	1782.7	1714.3	1622.4	1605.2	1629.0	1652.8	1750.6	1832.1	1384.5
40°	1955.5	1960.5	1939.5	1903.6	1816.4	1774.4	1795.4	1811.9	1904.6	1999.3	1484.6
42.5°	2027.7	2035.3	2039.8	2061.4	2015.5	1970.7	1963.1	1971.7	2042.1	2154.6	1578.6
45°	2043.1	2053.3	2086.4	2166.2	2184.0	2171.3	2146.5	2125.7	2144.7	2264.8	1640.1
47.5°	1975.0	1992.7	2063.6	2203.2	2306.8	2346.6	2319.0	2287.3	2204.0	2293.1	1633.8
50°	1705.0	1725.7	1885.6	2127.7	2324.3	2469.2	2471.7	2424.8	2196.9	2211.3	1554.3
52.5°	1349.8	1364.0	1455.5	1803.8	2152.8	2464.1	2565.4	2515.3	2162.7	2109.0	1454.7
55°	806.8	829.6	914.9	1190.0	1677.1	2184.0	2399.8	2424.1	2146.0	2023.1	1386.8
57.5°	272.3	283.4	365.0	525.6	988.4	1599.1	1854.2	1952.9	1948.1	1891.9	1254.3
60°	129.7	132.2	148.7	199.3	395.7	835.6	1097.6	1211.5	1315.4	1325.8	780.4
62.5°	98.8	100.3	108.7	119.6	159.1	352.1	503.1	590.2	630.5	541.1	284.2
65°	82.6	83.8	90.2	97.0	108.2	152.5	193.0	222.7	200.6	156.3	135.5
67.5°	68.9	69.9	74.7	82.1	89.7	102.1	107.1	110.2	115.5	129.7	124.6
70°	54.0	55.0	60.0	66.4	73.7	76.8	81.6	84.6	95.2	113.5	113.0
72.5°	41.5	42.8	45.6	49.6	55.7	58.8	64.1	67.6	73.7	88.4	94.5
75°	30.4	31.2	33.7	35.0	35.7	35.0	40.3	44.3	52.4	58.0	59.5
77.5°	12.4	13.9	13.4	13.4	16.0	19.3	22.0	24.6	30.1	33.4	33.7
80°	5.1	5.6	6.6	7.3	8.9	11.4	13.2	14.2	16.7	18.7	20.3
82.5°	3.0	3.3	3.8	4.1	5.1	6.6	7.6	8.4	10.4	12.4	13.2
85°	1.5	1.5	1.8	2.0	2.5	3.0	3.5	4.1	5.3	6.6	7.3
87.5°	0.3	0.3	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.5
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°	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4	954.4
2.5°	954.9	941.3	925.3	912.6	898.0	887.1	871.6	862.0	852.9	845.3	839.7
5°	956.0	932.9	899.7	870.3	839.9	811.1	781.4	757.4	735.8	717.9	716.3
7.5°	961.8	928.6	876.7	825.3	766.0	708.7	651.5	604.9	569.4	550.9	547.1
10°	971.7	928.1	853.1	771.0	670.0	577.8	509.9	474.4	453.9	446.6	444.0
12.5°	982.0	926.8	823.0	694.6	554.2	473.4	436.2	431.9	435.7	436.2	435.9
15°	994.7	926.1	785.0	604.9	469.6	425.0	427.6	436.7	445.6	447.6	447.6
17.5°	1010.2	924.3	733.3	517.2	416.7	415.7	429.1	441.2	449.6	451.1	451.1
20°	1026.4	919.7	669.7	445.8	395.1	409.8	424.3	433.7	439.5	441.5	441.8
22.5°	1037.5	907.6	596.5	392.9	381.7	398.7	409.1	418.7	418.7	413.6	412.1
25°	1039.8	881.5	517.2	356.6	365.8	381.5	392.1	386.5	376.2	372.1	371.8
27.5°	1031.4	843.5	439.0	330.8	346.5	362.2	360.4	352.3	347.8	343.7	345.2
30°	1021.3	797.9	371.1	309.5	324.2	339.7	333.6	330.8	327.5	323.0	324.0
32.5°	1014.5	747.0	318.9	293.1	309.3	311.8	316.1	315.9	312.8	304.2	303.7
35°	1016.5	695.6	284.0	279.6	296.9	295.9	304.0	302.4	281.4	269.5	268.8
37.5°	1032.7	646.2	263.4	269.0	277.1	283.4	290.5	272.3	265.0	257.4	257.9
40°	1063.6	600.3	252.3	263.2	265.2	274.6	258.1	257.9	254.6	247.7	247.5
42.5°	1098.6	561.6	244.7	260.4	257.6	259.4	241.9	243.9	243.7	239.4	238.1
45°	1119.8	525.9	238.6	250.0	250.8	233.0	227.7	230.0	231.3	229.0	228.7
47.5°	1097.8	484.8	232.3	234.0	240.6	221.1	214.5	214.8	217.1	217.3	216.3
50°	1036.0	439.0	224.7	220.4	216.1	208.7	202.6	201.4	203.7	205.9	206.7
52.5°	956.2	395.1	212.0	205.4	195.3	195.3	192.5	188.5	191.5	194.5	195.5
55°	897.7	362.7	194.0	186.7	175.5	179.3	178.8	175.3	179.3	181.6	182.4
57.5°	777.9	291.5	170.7	168.4	159.1	163.6	164.6	160.1	158.1	158.6	159.3
60°	461.8	188.2	154.0	153.8	145.4	150.7	153.8	149.2	143.1	143.9	144.9
62.5°	207.2	143.9	133.0	132.0	131.7	138.6	141.8	137.5	128.9	129.7	130.7
65°	130.4	124.4	115.5	115.5	119.6	125.4	127.9	124.4	114.5	113.2	114.2
67.5°	121.1	115.8	106.6	104.9	106.9	111.7	112.0	105.1	99.3	98.3	98.3
70°	108.7	104.6	95.7	92.2	91.4	91.2	90.4	88.7	84.9	83.8	84.3
72.5°	89.9	87.1	81.6	77.8	75.7	75.5	72.4	70.9	67.6	67.1	66.9
75°	59.5	60.3	60.3	59.8	58.0	57.2	54.0	52.4	48.6	47.1	46.9
77.5°	35.2	36.0	37.0	37.2	37.0	37.0	33.9	32.2	28.4	26.3	25.8
80°	21.5	22.0	22.5	23.3	22.3	21.5	18.7	17.0	15.2	13.9	13.7
82.5°	13.9	14.4	14.7	15.2	14.7	13.7	11.4	10.4	9.1	8.1	7.9
85°	7.9	8.1	8.6	8.6	7.9	7.1	5.8	5.1	4.3	3.8	3.8
87.5°	2.8	2.8	2.8	3.0	2.5	2.3	1.5	1.0	0.8	0.8	0.8
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)