

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: P629640

Luminaire Tested: GWS-SA1C-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629640  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

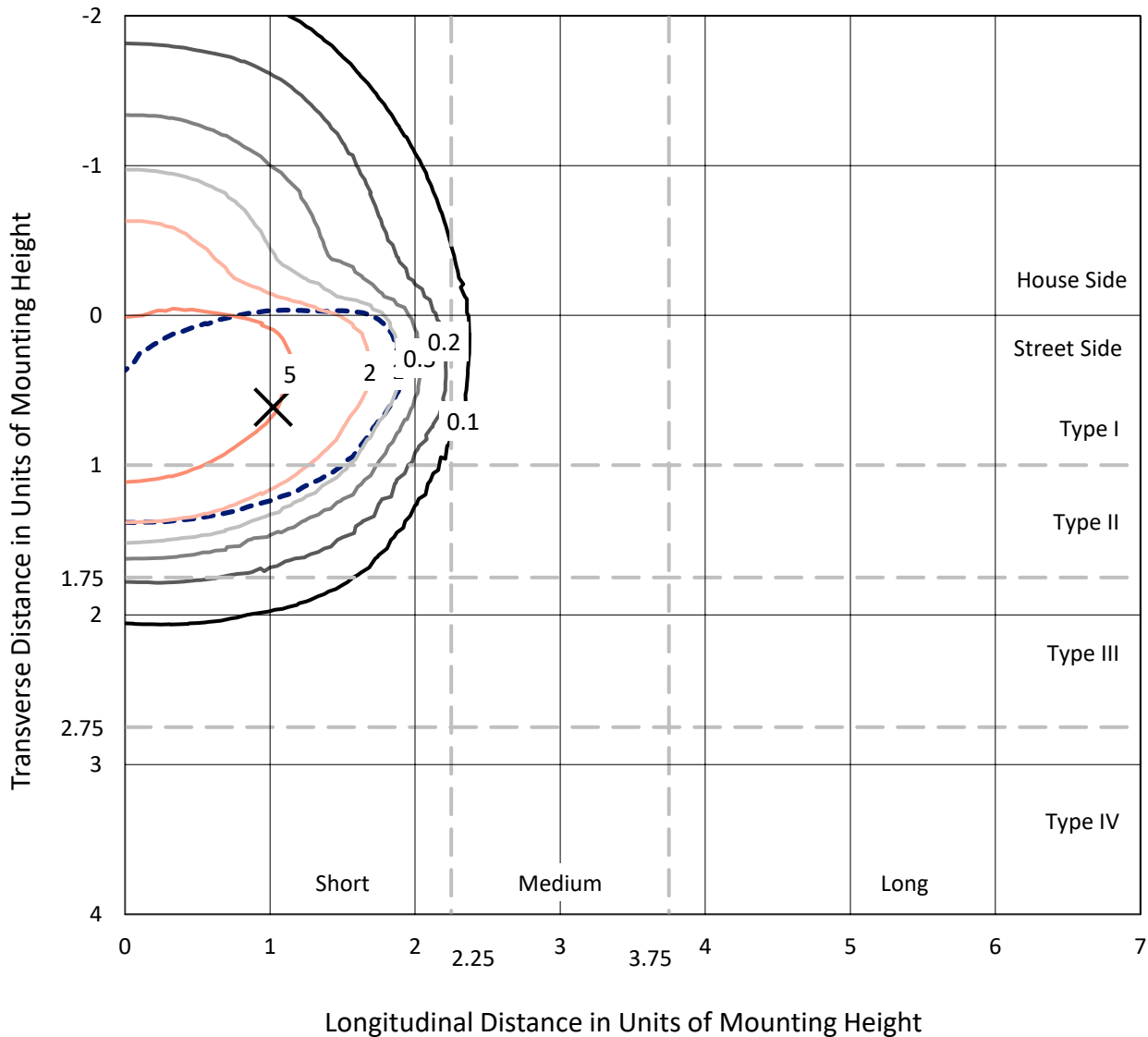
Lumens per Lamp: N/A  
Luminaire Lumens: 3116 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

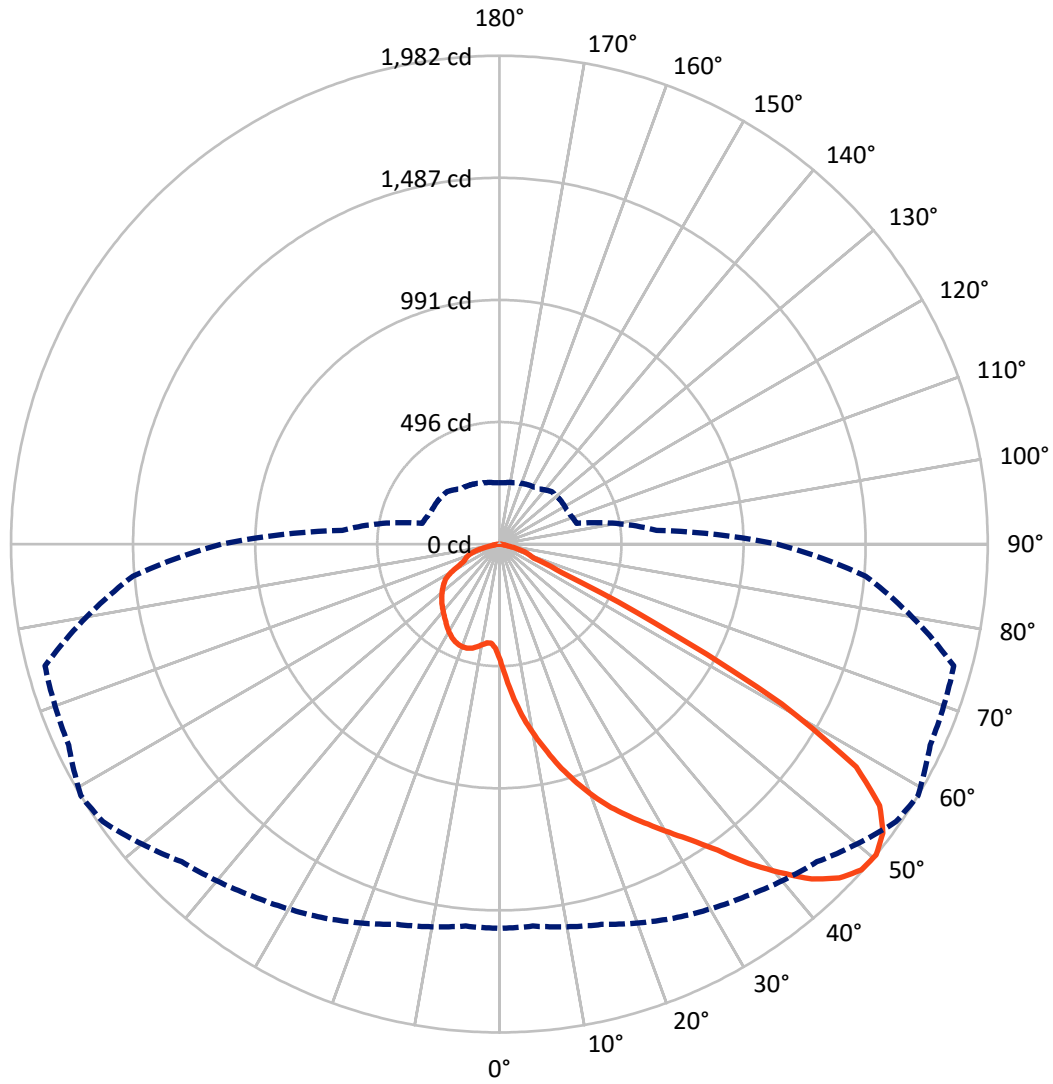
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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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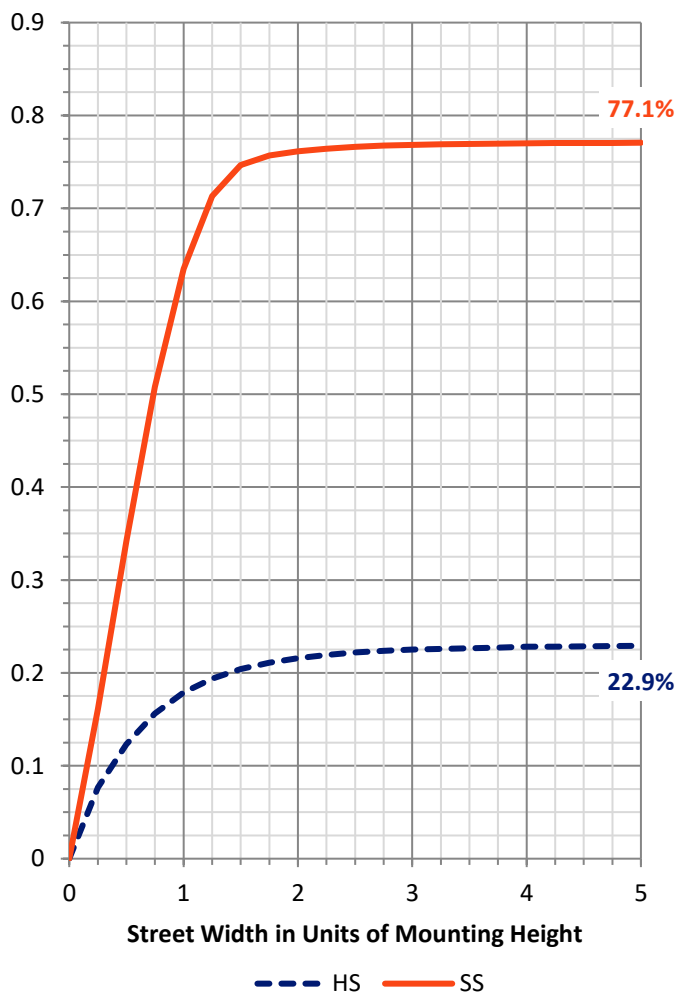
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	716.7	0.0	716.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2399.3	0.0	2399.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	3116.0	0.0	3116.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	1.7
10°-20°	192.3	6.2
20°-30°	364.1	11.7
30°-40°	603.7	19.4
40°-50°	824.7	26.5
50°-60°	748.6	24.0
60°-70°	249.3	8.0
70°-80°	72.7	2.3
80°-90°	7.6	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°	3116.0	100.0
0°-180°	3116.0	100.0

**Coefficient of Utilization**



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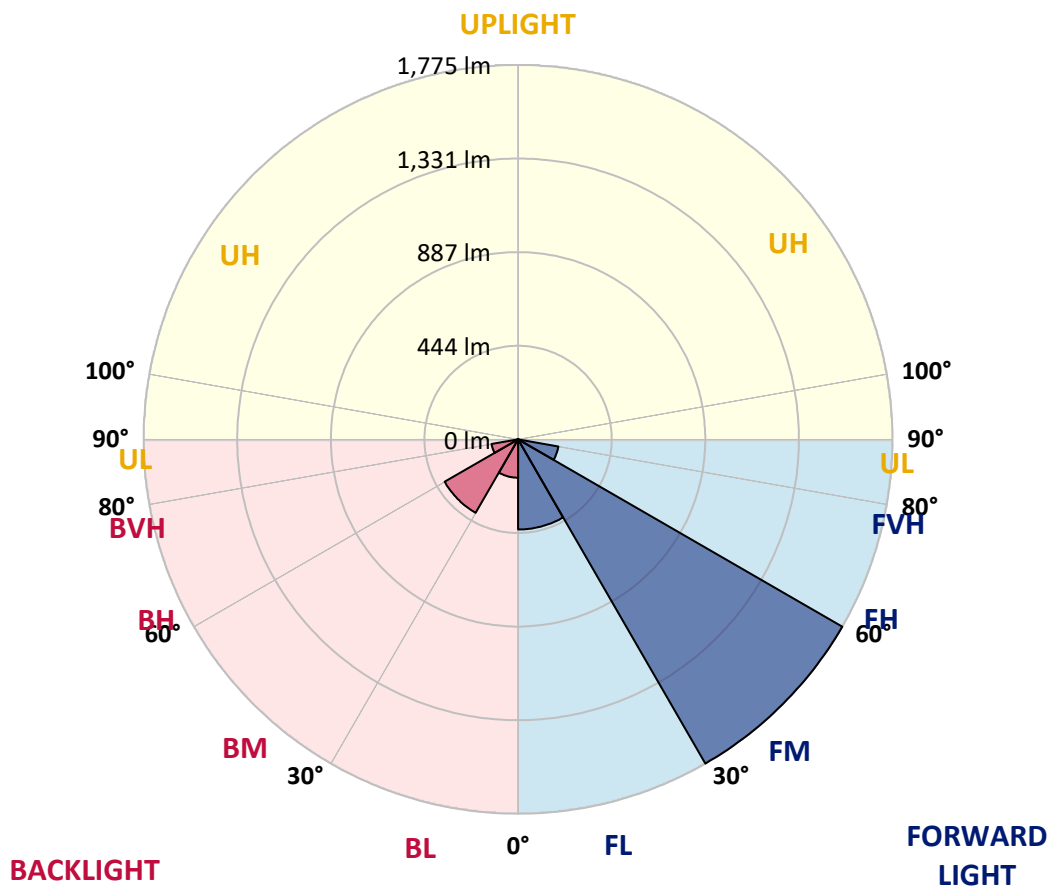
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.3	13.7			
FM (30°-60°)	1774.9	57.0			
FH (60°-80°)	194.1	6.2			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	182.0	5.8	B1/500		
BM (30°-60°)	402.2	12.9	B1/1000		
BH (60°-80°)	127.9	4.1	B1/500		G1/500
BVH (80°-90°)	4.7	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°	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1
2.5°	611.7	616.3	609.2	609.7	591.9	583.8	560.9	547.5	538.6	513.7	491.1
5°	735.0	729.7	724.1	720.8	705.4	683.5	655.1	632.5	611.7	563.0	516.0
7.5°	810.7	807.9	804.1	802.1	786.8	764.0	735.6	716.3	686.1	620.1	546.2
10°	874.9	871.6	869.3	870.8	858.4	843.7	812.7	790.6	756.6	680.5	582.8
12.5°	924.6	926.4	927.2	935.3	930.0	921.1	889.1	865.8	827.9	744.2	625.7
15°	964.0	963.5	972.4	987.8	996.5	990.9	965.3	945.7	899.5	806.9	671.8
17.5°	973.1	973.6	987.6	1014.8	1042.9	1056.6	1042.2	1018.8	973.1	868.8	719.8
20°	980.5	981.5	996.0	1026.9	1068.1	1106.4	1108.7	1091.9	1052.6	935.8	768.6
22.5°	1026.9	1029.2	1033.0	1052.6	1089.6	1138.1	1164.8	1161.2	1128.2	1006.1	821.1
25°	1149.0	1142.2	1123.6	1118.1	1132.3	1171.6	1217.0	1223.9	1207.7	1083.5	877.7
27.5°	1299.8	1292.4	1265.0	1236.1	1205.4	1219.1	1267.6	1288.1	1288.4	1168.8	934.5
30°	1436.6	1430.8	1408.4	1367.0	1314.0	1294.2	1330.0	1357.7	1374.2	1267.3	999.3
32.5°	1553.6	1548.3	1518.1	1484.3	1432.5	1392.7	1405.6	1432.3	1470.9	1394.7	1079.7
35°	1652.1	1646.8	1617.8	1583.8	1535.8	1512.0	1507.4	1525.7	1575.7	1527.7	1172.1
37.5°	1732.0	1726.7	1696.5	1664.5	1628.0	1629.5	1636.3	1645.2	1673.9	1670.1	1270.9
40°	1783.8	1778.2	1756.7	1733.8	1710.7	1729.0	1763.0	1752.3	1767.6	1785.1	1361.7
42.5°	1806.9	1799.8	1787.4	1782.3	1775.2	1803.6	1869.1	1858.4	1840.2	1861.7	1429.2
45°	1783.8	1777.7	1777.5	1792.9	1809.4	1846.0	1942.4	1933.8	1887.6	1898.8	1469.6
47.5°	1713.0	1707.7	1722.1	1762.7	1803.4	1856.7	1975.2	1976.7	1921.4	1914.3	1495.7
50°	1559.9	1556.4	1598.3	1675.2	1745.2	1823.4	1964.8	1982.3	1929.5	1909.5	1492.4
52.5°	1248.8	1265.3	1356.4	1484.8	1620.9	1765.0	1926.2	1949.0	1890.4	1877.7	1474.7
55°	854.8	862.5	953.6	1141.2	1356.9	1638.6	1837.6	1872.9	1844.2	1872.4	1493.2
57.5°	442.7	448.7	520.6	687.1	920.3	1295.0	1591.7	1707.4	1751.1	1899.3	1550.8
60°	181.7	186.8	216.5	297.0	464.2	754.1	1145.5	1317.0	1419.6	1734.6	1377.2
62.5°	132.0	134.5	148.7	177.2	243.2	369.6	648.2	711.4	783.5	1087.1	874.4
65°	111.2	114.0	125.4	142.6	177.4	226.7	276.9	278.4	306.9	442.9	324.1
67.5°	93.2	95.7	105.8	120.6	143.4	160.9	148.7	149.0	148.5	160.7	155.3
70°	72.6	74.6	84.8	100.5	112.4	103.3	116.2	128.7	123.4	128.2	135.5
72.5°	53.0	55.3	64.2	76.1	73.1	73.6	94.2	106.9	103.8	109.1	116.0
75°	38.3	39.8	44.4	38.1	40.1	48.5	66.2	73.1	76.1	80.7	86.8
77.5°	12.4	12.4	14.0	17.5	21.8	26.9	33.8	36.5	41.1	46.2	50.5
80°	6.3	6.6	7.9	9.6	12.2	15.5	19.8	21.1	23.4	26.1	27.9
82.5°	3.0	3.3	3.8	4.8	6.3	8.1	10.9	12.2	13.7	15.5	16.8
85°	0.8	0.8	1.0	1.5	2.0	3.0	4.1	4.8	6.1	7.4	8.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.0	1.3	1.5	2.0
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°	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1	472.1
2.5°	481.0	466.8	448.5	433.0	418.8	407.9	398.5	393.9	389.6	386.6	387.6
5°	494.2	469.8	435.8	412.2	397.7	390.4	385.3	382.8	382.2	380.2	379.5
7.5°	513.5	478.7	433.3	409.4	399.8	396.0	393.2	391.6	392.4	390.4	389.6
10°	537.3	493.4	439.6	418.5	410.2	407.4	404.3	402.3	401.3	398.2	397.7
12.5°	567.0	511.7	451.0	430.2	421.8	417.0	413.0	409.4	407.1	403.3	402.3
15°	599.0	532.0	464.5	441.6	431.7	424.6	418.0	412.7	408.6	403.6	402.8
17.5°	633.8	553.3	475.6	449.5	436.8	427.4	417.8	409.9	404.3	397.7	397.0
20°	670.1	574.9	484.0	453.3	437.1	424.4	411.4	401.0	393.9	387.3	386.8
22.5°	707.6	594.7	489.1	452.3	433.0	417.3	401.8	390.1	381.7	373.9	373.4
25°	745.5	613.7	490.4	448.2	424.9	406.6	391.1	377.4	368.0	359.1	358.1
27.5°	783.8	629.7	487.3	440.1	414.0	394.2	378.7	365.2	355.6	346.7	345.2
30°	824.6	643.4	480.7	429.5	401.3	381.0	365.7	355.6	346.5	337.6	336.1
32.5°	868.3	655.4	471.3	416.5	386.6	367.8	356.6	347.5	338.3	330.5	328.9
35°	920.3	663.2	457.4	399.8	372.9	358.1	350.5	339.9	328.7	320.1	319.3
37.5°	974.1	669.3	440.6	383.8	360.9	352.5	346.2	331.7	317.8	307.4	306.1
40°	1026.2	674.4	419.8	368.8	350.0	348.5	339.9	321.8	297.7	286.0	285.0
42.5°	1074.7	675.9	398.0	352.8	340.1	339.4	329.7	301.8	283.3	275.9	274.9
45°	1107.9	674.6	375.4	337.8	330.2	326.2	316.0	287.3	275.9	269.3	268.0
47.5°	1132.5	668.0	350.0	322.1	319.0	313.5	291.6	278.2	267.5	260.9	259.7
50°	1128.2	640.6	324.4	306.9	305.6	300.8	273.9	266.8	257.4	250.3	249.2
52.5°	1105.9	588.6	298.2	290.1	292.6	283.3	261.2	253.1	244.9	236.8	235.0
55°	1111.5	551.0	278.4	273.9	278.4	257.1	247.0	238.3	230.7	222.8	221.3
57.5°	1135.8	514.0	257.4	256.4	261.2	237.1	228.7	217.8	206.9	200.5	200.5
60°	953.8	374.6	220.3	222.8	233.8	220.8	213.5	202.3	190.4	184.8	184.8
62.5°	564.0	235.0	182.7	180.0	186.8	194.9	199.0	189.9	175.6	168.3	168.5
65°	248.5	171.1	161.2	158.9	156.9	162.4	173.6	174.4	159.4	150.8	151.0
67.5°	153.1	154.8	150.8	149.0	147.2	146.2	145.2	145.7	141.6	133.8	133.5
70°	138.1	142.9	140.1	138.6	136.3	134.5	128.4	118.5	111.7	109.6	111.9
72.5°	118.8	125.4	123.9	123.1	120.3	116.0	107.9	98.2	90.1	85.0	86.0
75°	89.6	94.9	95.7	95.9	92.9	88.8	80.5	72.3	65.2	59.9	61.2
77.5°	51.5	54.6	55.3	56.1	53.8	52.3	46.7	40.9	37.1	31.5	33.0
80°	28.7	30.0	30.0	30.2	28.9	27.2	23.4	20.1	18.3	15.7	16.0
82.5°	17.3	17.8	18.0	18.3	17.5	15.7	12.9	10.7	9.6	8.4	8.1
85°	8.4	8.9	8.9	9.1	7.9	6.9	5.3	4.1	3.6	2.5	2.8
87.5°	2.0	2.3	2.3	2.0	1.8	1.3	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)