

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: P628866

Luminaire Tested: GWS-SA1A-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-740-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

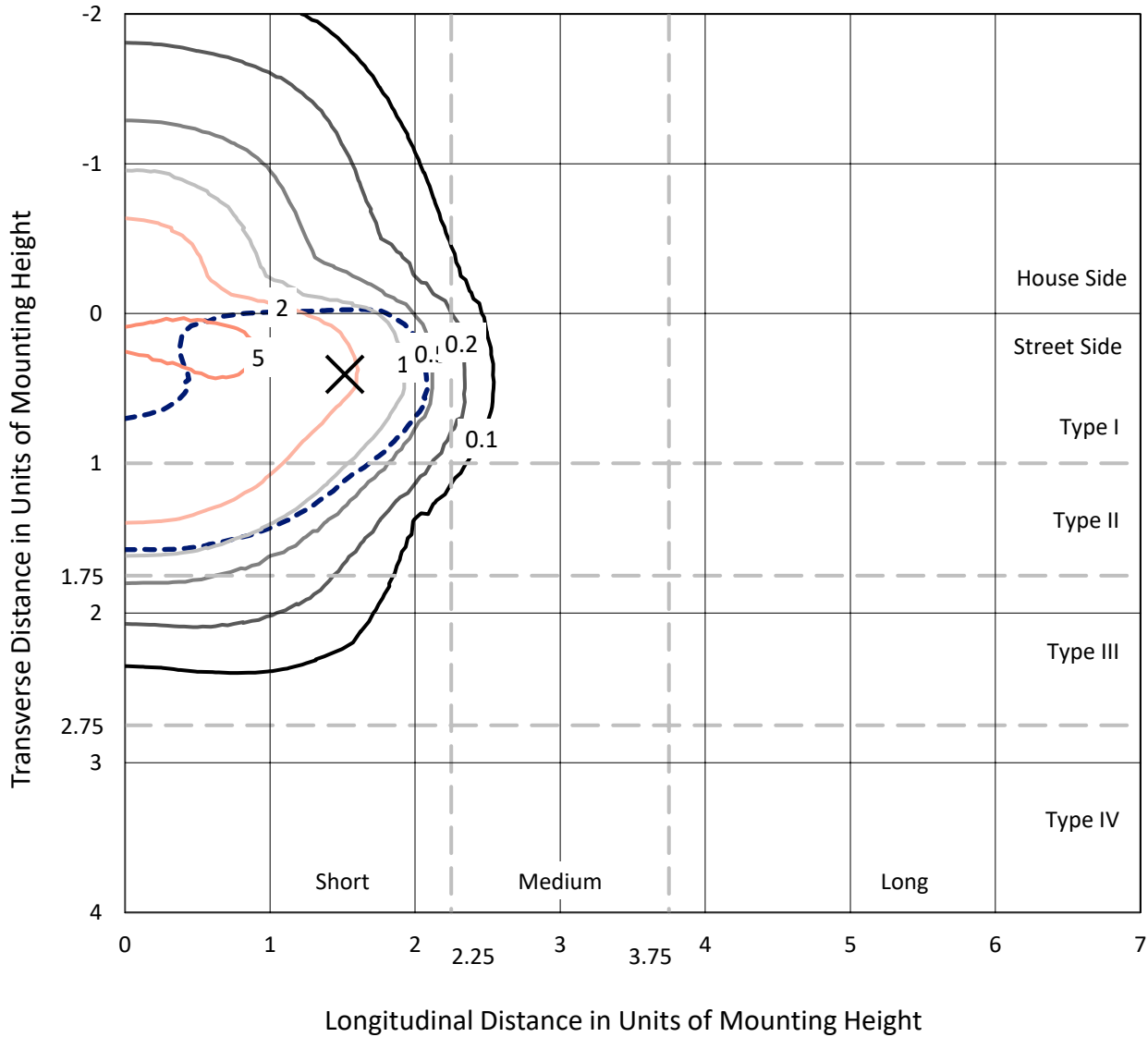
Lumens per Lamp: N/A  
Luminaire Lumens: 2370.9 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

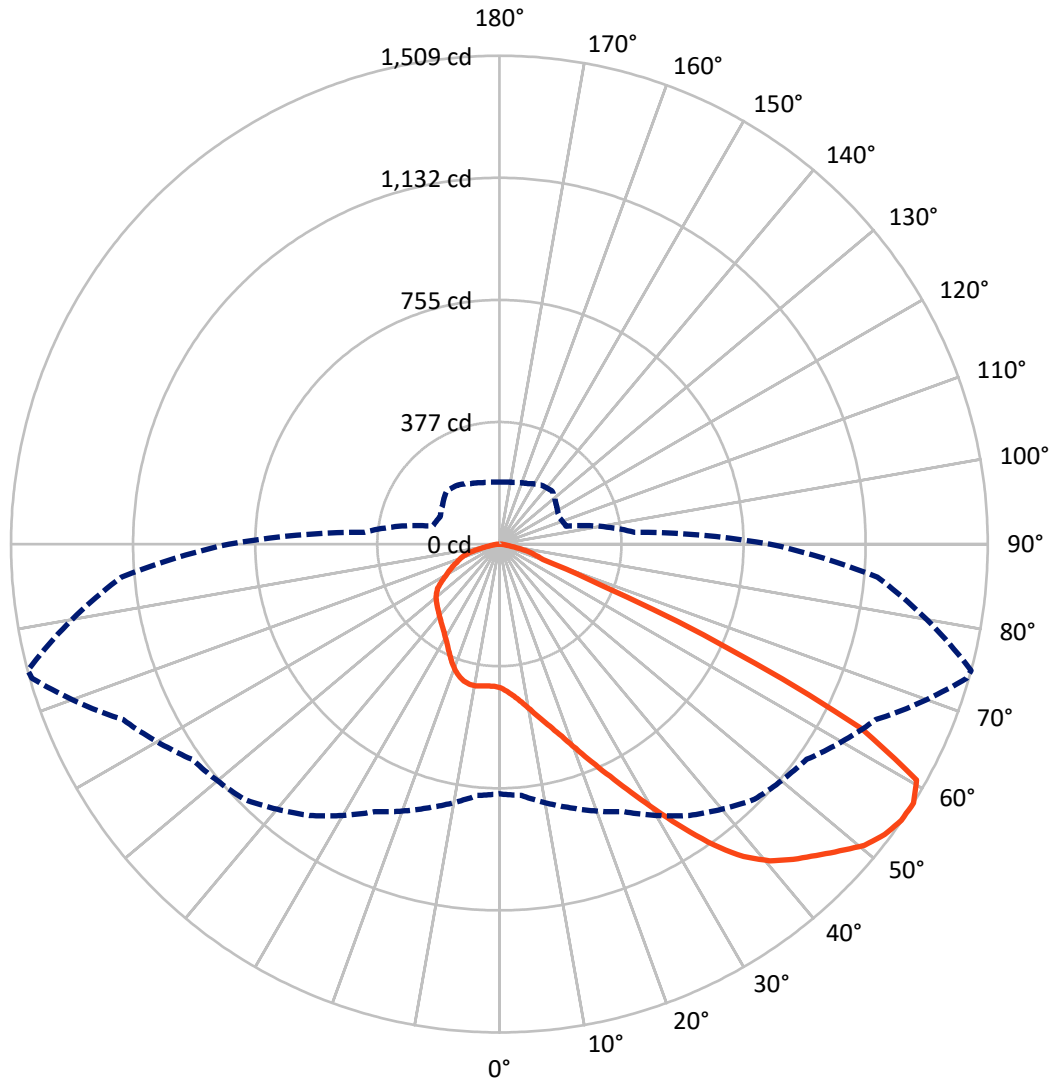
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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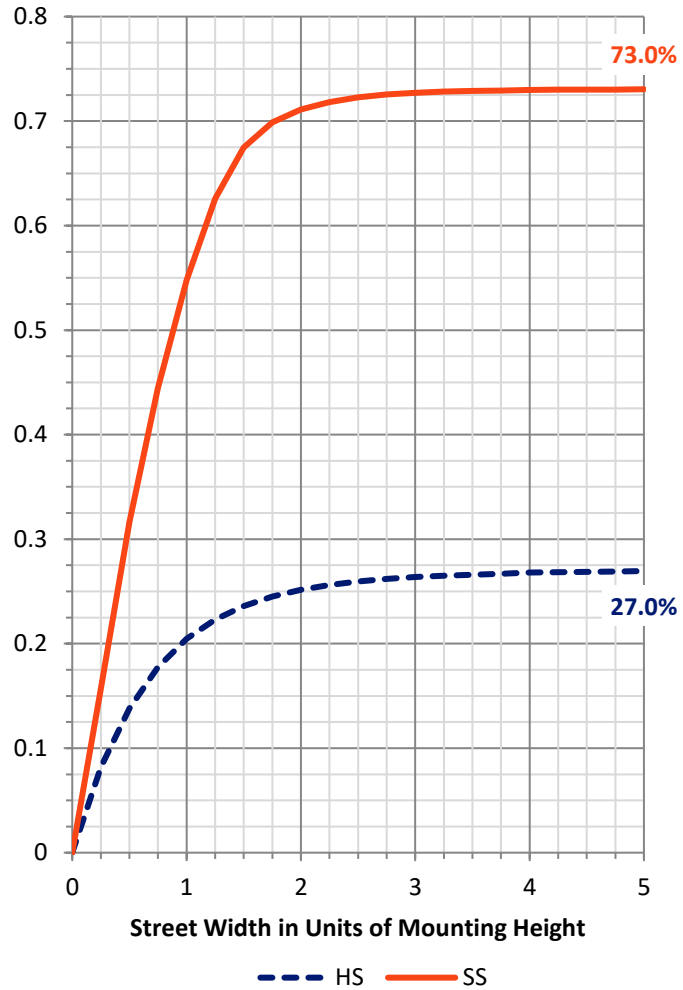
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	641.4	0.0	641.4
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	1729.5	0.0	1729.5
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	2370.9	0.0	2370.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	1.9
10°-20°	141.5	6.0
20°-30°	250.9	10.6
30°-40°	384.1	16.2
40°-50°	534.8	22.6
50°-60°	612.7	25.8
60°-70°	314.8	13.3
70°-80°	79.3	3.3
80°-90°	8.5	0.4
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°	2370.9	100.0
0°-180°	2370.9	100.0

**Coefficient of Utilization**



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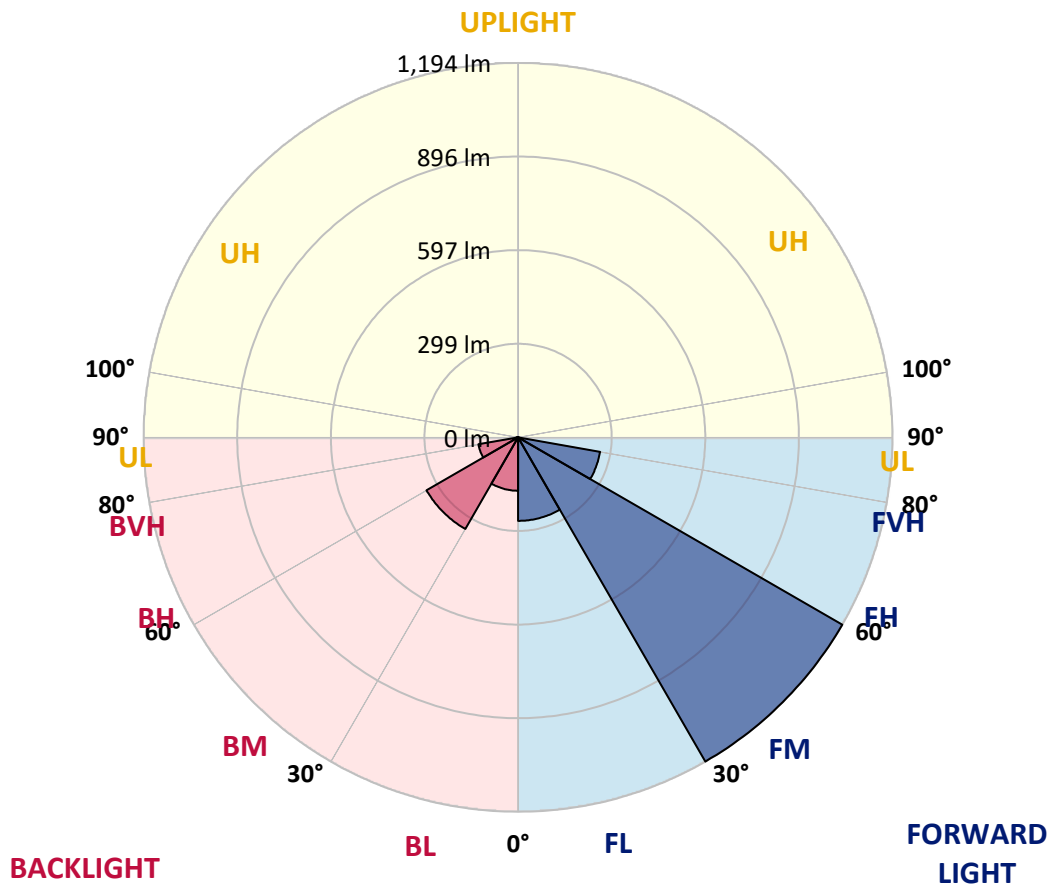
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.4	11.2			
FM (30°-60°)	1194.2	50.4			
FH (60°-80°)	265.8	11.2			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	170.4	7.2	B1/500		
BM (30°-60°)	337.3	14.2	B1/1000		
BH (60°-80°)	128.3	5.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.2			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°	65°	74°	75°	85°
0°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	477.0	478.3	477.0	479.1	475.0	473.2	468.7	462.0	456.7	455.8	449.9
5°	514.1	516.8	515.2	514.3	508.8	504.8	498.0	484.6	473.6	471.9	460.3
7.5°	538.0	539.8	539.8	540.4	538.4	533.7	526.6	510.7	495.2	492.7	475.2
10°	545.9	547.4	550.0	555.1	559.2	560.6	555.9	540.6	521.7	519.2	494.8
12.5°	547.8	549.4	553.5	562.9	574.1	584.3	585.1	573.9	552.7	550.0	517.4
15°	551.2	552.9	558.4	570.0	586.5	606.1	618.1	610.4	586.9	584.1	543.1
17.5°	550.8	552.7	560.8	576.3	598.5	626.9	650.1	653.4	629.1	624.2	572.2
20°	549.8	551.4	560.2	579.2	606.7	645.6	687.6	704.5	678.5	674.0	606.3
22.5°	558.0	559.8	566.5	582.2	611.0	660.1	722.3	763.1	737.0	730.6	645.4
25°	576.3	579.0	583.0	593.9	618.7	673.0	757.8	829.3	802.6	795.1	688.0
27.5°	604.7	607.9	613.6	618.7	636.1	689.3	793.0	903.5	876.8	868.9	733.1
30°	639.3	643.6	650.9	654.4	666.2	713.3	831.4	980.0	964.5	953.5	783.9
32.5°	687.2	693.1	700.1	701.1	708.2	749.8	869.3	1055.8	1055.6	1047.9	841.5
35°	749.6	755.9	757.3	758.8	762.2	800.0	915.1	1124.9	1151.6	1142.6	904.3
37.5°	817.7	826.9	829.1	822.8	827.7	860.3	966.7	1180.4	1235.2	1225.6	965.1
40°	890.5	894.1	900.3	890.3	896.4	929.4	1017.3	1215.8	1297.6	1287.4	1013.0
42.5°	942.7	949.4	958.6	954.9	958.4	988.5	1052.7	1233.0	1342.0	1331.8	1047.4
45°	999.3	1001.4	1007.3	1006.5	1008.5	1036.6	1078.2	1240.5	1381.8	1372.6	1076.8
47.5°	1048.7	1051.7	1055.6	1051.1	1046.6	1065.0	1099.0	1247.0	1427.6	1416.6	1107.6
50°	1096.2	1098.8	1103.5	1090.5	1073.7	1078.4	1109.2	1256.0	1470.7	1462.9	1131.8
52.5°	1104.9	1107.8	1129.8	1132.5	1111.1	1094.5	1127.2	1275.8	1495.9	1491.1	1140.6
55°	994.6	999.7	1043.6	1093.9	1146.7	1141.4	1155.9	1286.2	1505.9	1507.2	1156.3
57.5°	772.0	779.4	843.4	912.5	1023.6	1115.5	1159.6	1283.5	1502.5	1509.2	1172.4
60°	506.4	510.7	586.5	664.0	779.2	906.4	1037.9	1235.8	1471.7	1481.3	1168.3
62.5°	305.8	310.7	371.6	430.4	498.2	583.3	703.9	993.2	1233.6	1255.0	935.7
65°	213.4	220.0	273.4	321.7	345.1	327.6	356.6	554.7	768.6	777.5	571.8
67.5°	154.7	159.2	203.0	260.5	286.4	231.4	176.3	245.7	334.7	338.0	235.9
70°	101.3	106.4	146.2	198.4	233.8	187.6	131.9	132.9	140.9	142.5	137.0
72.5°	55.7	58.7	90.3	131.7	138.2	112.1	103.0	110.5	116.0	116.0	117.4
75°	28.7	31.4	36.9	43.4	52.4	61.4	74.2	85.4	91.3	91.7	91.1
77.5°	14.7	15.7	19.8	21.4	23.4	27.3	35.5	45.5	50.8	52.8	52.4
80°	6.9	7.3	8.4	9.8	12.0	15.3	19.2	22.8	26.1	26.5	28.7
82.5°	3.7	4.1	4.5	5.3	6.5	8.2	11.2	13.5	15.5	15.9	17.7
85°	1.4	1.6	1.8	2.0	2.9	3.5	4.7	6.3	7.7	7.7	9.2
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	0.8	1.0	1.4	1.4	2.4
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°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	448.5	442.6	439.9	435.7	432.2	428.3	425.3	423.0	421.6	420.8	420.0
5°	455.8	446.9	439.7	431.2	425.3	419.5	414.9	411.6	410.0	408.7	407.9
7.5°	467.3	455.2	441.8	428.5	418.1	408.9	403.0	399.6	397.3	396.5	395.9
10°	483.0	466.2	444.0	423.0	407.5	397.5	393.5	391.8	392.0	391.6	391.4
12.5°	500.7	477.9	443.4	413.2	396.1	390.2	390.4	393.0	396.1	396.9	397.1
15°	519.8	489.3	437.5	400.6	387.1	387.7	393.0	399.4	405.1	407.3	407.7
17.5°	540.6	498.9	426.7	386.7	379.8	386.3	396.1	406.5	414.9	418.5	419.5
20°	563.9	507.0	411.4	373.1	372.9	383.7	397.9	411.6	422.2	427.1	427.9
22.5°	588.6	512.1	392.6	360.4	365.7	380.2	396.5	410.8	422.0	426.9	427.9
25°	613.4	513.7	372.0	348.8	358.4	374.7	389.6	401.0	411.6	415.9	416.7
27.5°	636.7	509.0	352.5	338.8	351.7	366.5	376.5	382.7	390.0	393.3	393.9
30°	660.3	499.7	336.0	330.9	344.1	355.3	359.8	360.2	363.1	363.1	363.5
32.5°	684.2	485.8	321.5	323.1	334.7	342.1	342.7	338.0	334.5	328.8	328.6
35°	711.7	471.7	309.7	314.4	323.7	328.2	326.4	317.4	309.1	299.7	299.3
37.5°	737.2	457.3	299.7	305.4	311.3	314.6	310.3	299.5	292.5	283.0	281.5
40°	758.2	444.2	290.1	296.0	298.9	301.7	294.8	286.0	287.0	281.7	281.5
42.5°	770.4	431.6	281.1	285.6	287.4	289.5	283.4	276.8	282.3	278.3	278.5
45°	779.4	420.6	273.0	274.6	279.1	282.1	276.4	269.1	270.3	254.6	251.0
47.5°	789.6	414.5	265.2	263.6	271.5	276.8	268.1	257.5	250.1	234.6	233.2
50°	800.4	412.2	257.1	252.6	262.2	267.3	257.1	243.8	234.2	225.9	225.1
52.5°	804.0	412.0	246.9	239.3	248.9	256.1	247.5	234.0	222.6	214.5	214.1
55°	818.5	417.9	233.8	221.2	230.2	244.8	238.5	219.2	210.0	206.3	205.9
57.5°	835.4	418.9	213.2	201.4	213.9	231.2	223.2	206.5	196.5	192.0	191.6
60°	828.5	393.9	191.2	186.3	200.0	218.3	211.0	196.5	184.9	180.6	180.2
62.5°	631.4	278.1	175.1	173.3	185.1	199.8	198.4	183.3	172.3	169.2	168.8
65°	379.8	195.3	159.6	159.4	167.8	181.8	183.7	171.4	159.8	155.5	155.5
67.5°	187.8	149.4	142.1	141.1	146.4	156.4	164.1	154.1	144.3	140.3	139.6
70°	132.7	131.7	129.2	126.4	127.4	131.5	134.8	126.4	116.0	111.9	111.1
72.5°	114.8	115.0	113.3	111.1	110.3	107.4	104.6	98.5	92.1	87.9	88.3
75°	89.1	89.5	90.5	89.7	87.5	84.4	81.3	73.6	68.5	64.4	63.6
77.5°	52.0	54.0	57.3	56.5	56.9	52.6	51.4	43.8	39.1	36.3	35.7
80°	29.4	30.6	32.0	33.0	31.8	30.0	27.3	23.2	21.8	19.8	19.4
82.5°	17.7	19.0	19.6	20.4	20.0	17.5	15.5	12.8	11.6	10.6	10.4
85°	9.0	9.8	10.4	10.8	9.6	8.0	7.1	5.7	4.9	4.3	4.3
87.5°	2.2	2.4	2.9	2.4	2.2	1.0	0.8	0.2	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)