

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459798

Luminaire Tested: **GWC-SA1A-AMB-U-SL4-HSS**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1A-AMB-U-SL4-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 972 lumens  
Efficiency: N/A  
Efficacy: 43.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

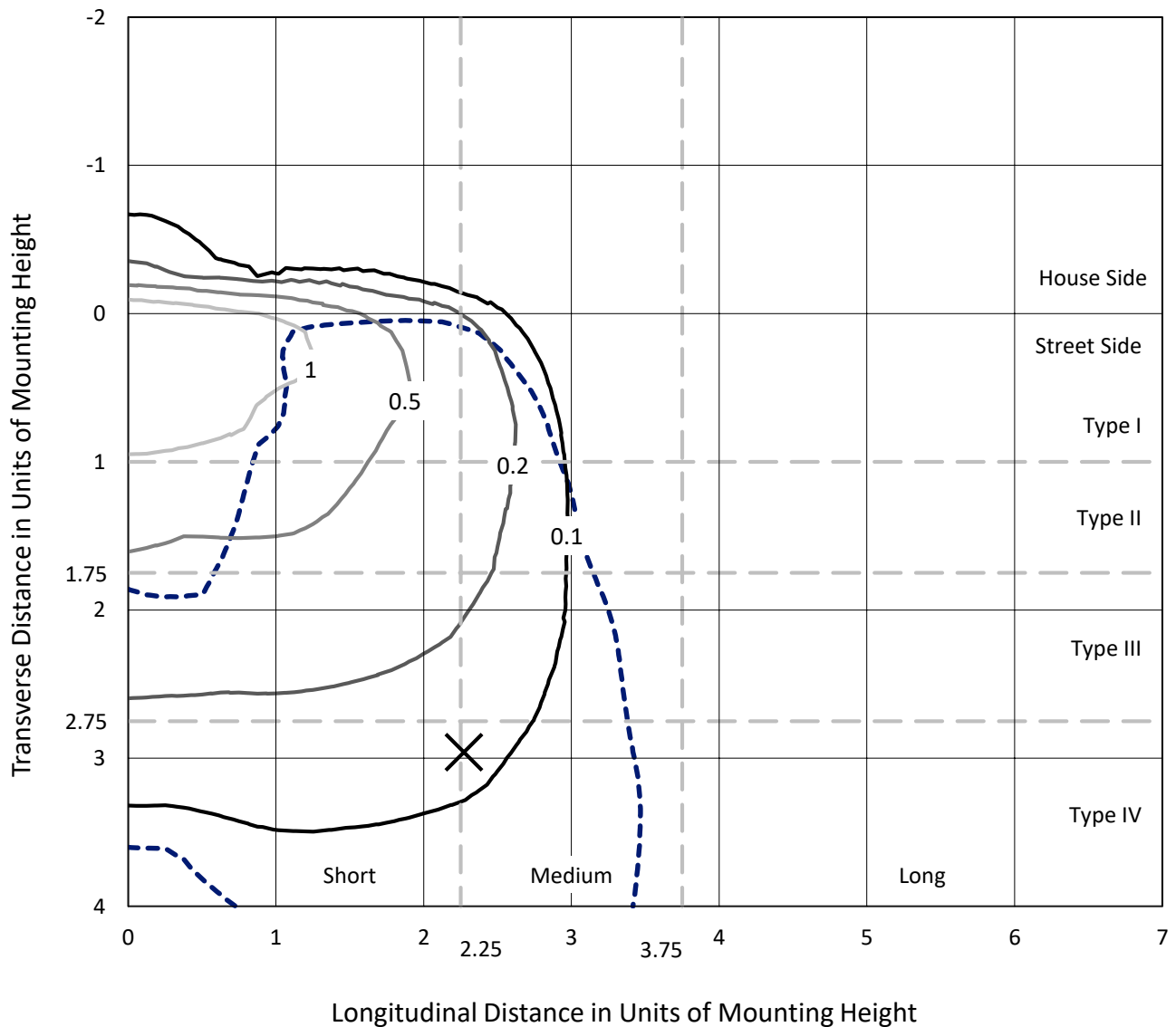


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### Iso-Footcandle Lines of Horizontal Illumination

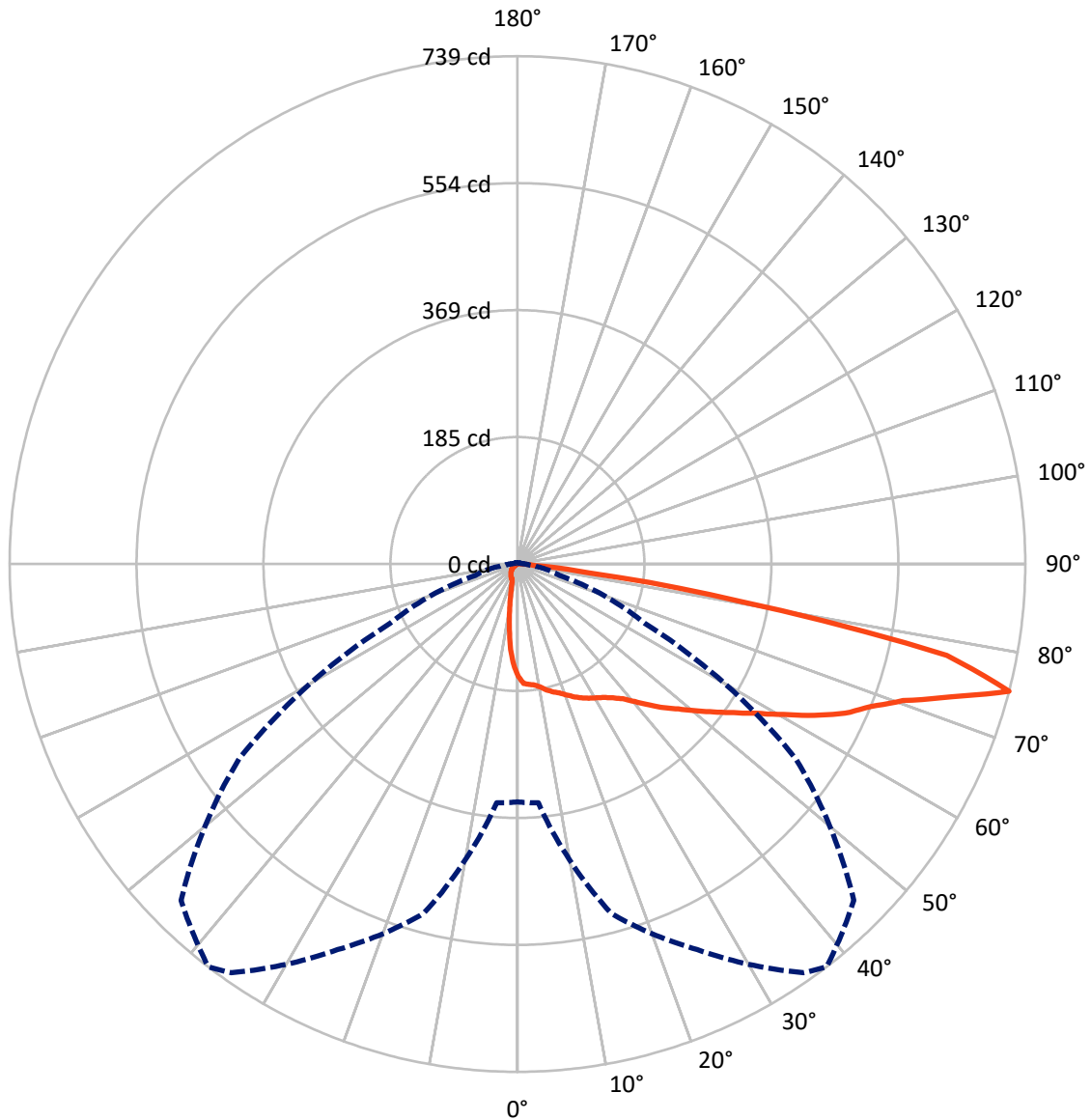
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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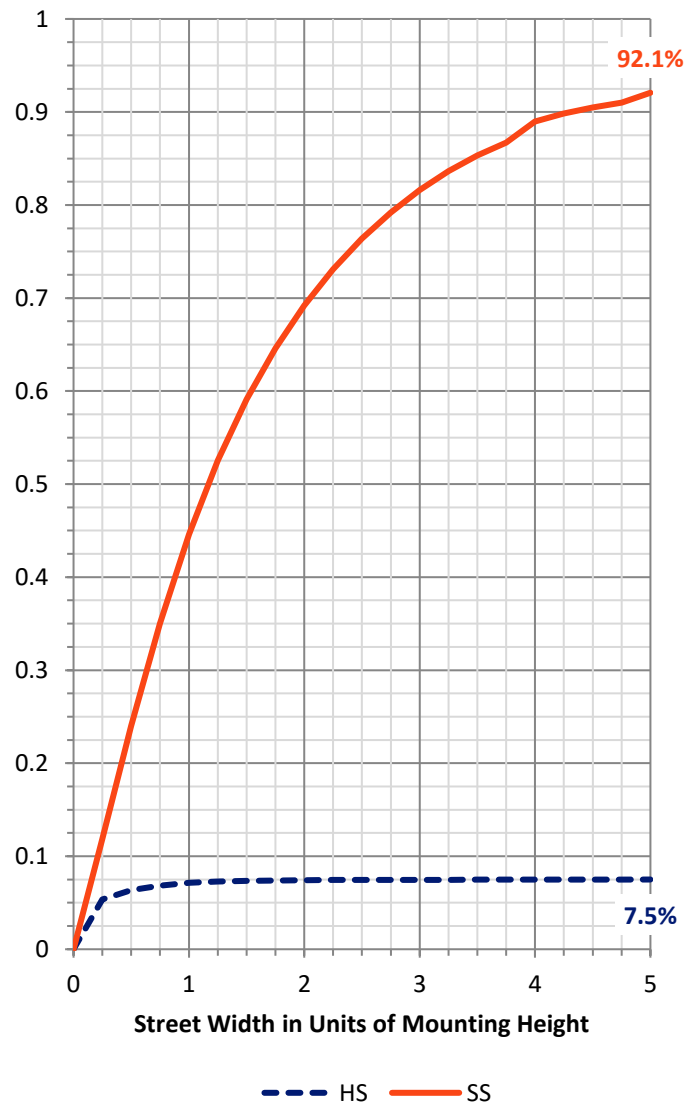
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	73.5	0.0	73.5
	% Fixture	7.6	0.0	7.6
<b>Street Side</b>	Lumens	898.5	0.0	898.5
	% Fixture	92.4	0.0	92.4
<b>Total</b>	Lumens	972.0	0.0	972.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.9	1.4
10°-20°	35.1	3.6
20°-30°	57.5	5.9
30°-40°	85.4	8.8
40°-50°	127.8	13.1
50°-60°	183.6	18.9
60°-70°	246.1	25.3
70°-80°	199.4	20.5
80°-90°	23.3	2.4
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°	972.0	100.0
0°-180°	972.0	100.0



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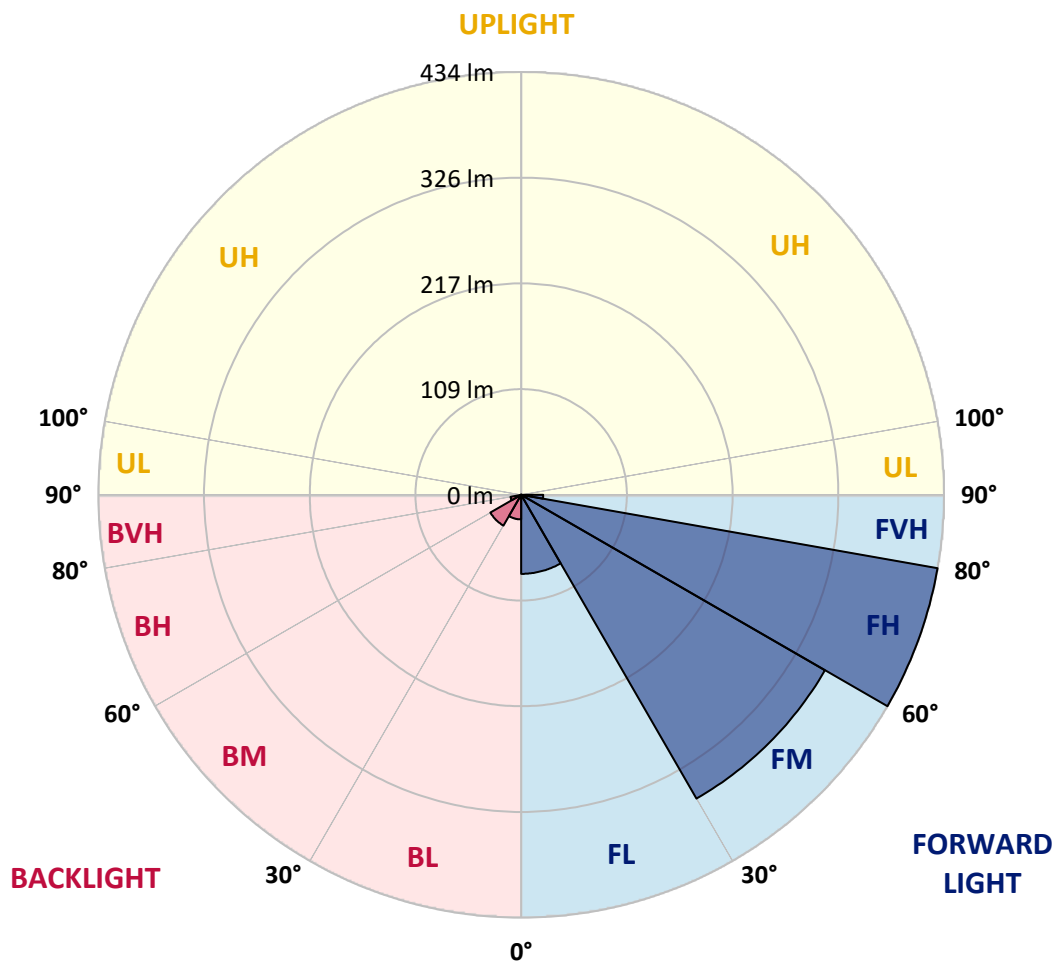
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.2	8.4			
FM (30°-60°)	360.3	37.1			
FH (60°-80°)	434.4	44.7			G0/660
FVH (80°-90°)	22.6	2.3			G1/100
BL (0°-30°)	25.2	2.6	B0/110		
BM (30°-60°)	36.5	3.8	B0/220		
BH (60°-80°)	11.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5
2.5°	175.9	175.4	175.4	174.3	173.8	173.8	171.6	171.1	168.9	166.7	164.0
5°	176.5	176.5	175.9	176.5	175.9	175.9	174.9	174.3	172.1	167.8	162.9
7.5°	179.7	179.2	178.7	178.7	177.6	177.6	174.9	173.8	171.6	168.9	161.8
10°	179.7	179.7	180.8	181.9	181.9	181.9	179.2	175.9	172.7	170.0	161.8
12.5°	179.2	179.2	180.8	184.6	187.3	187.9	186.3	181.9	176.5	171.6	164.0
15°	178.7	179.2	181.4	186.8	191.7	192.8	192.2	189.0	181.9	174.9	166.7
17.5°	179.7	180.8	183.5	191.1	196.6	197.1	197.7	195.5	187.9	179.2	171.1
20°	181.4	181.9	187.9	197.1	202.5	203.1	202.5	199.3	192.8	184.6	175.9
22.5°	184.1	185.2	192.8	203.1	209.1	209.6	208.0	202.5	195.5	189.0	181.4
25°	189.5	190.6	199.8	210.2	214.5	215.6	214.0	207.4	198.2	193.9	187.3
27.5°	196.0	197.7	207.4	217.2	219.9	221.0	219.4	211.8	202.0	200.4	194.9
30°	205.8	206.9	216.1	224.3	225.4	225.9	224.8	216.1	207.4	207.4	202.5
32.5°	217.8	219.4	225.4	231.3	230.8	231.3	230.8	221.6	214.0	218.3	211.8
35°	231.9	230.2	237.3	240.0	237.8	238.9	239.5	230.2	223.7	232.4	224.3
37.5°	242.7	242.7	246.5	249.3	247.6	248.7	250.3	241.6	237.3	252.5	243.3
40°	252.0	252.0	254.7	260.1	260.7	262.8	266.1	255.8	255.8	275.9	265.5
42.5°	259.0	260.1	262.3	269.3	276.4	280.2	283.5	273.1	278.0	305.7	294.9
45°	266.1	267.2	268.3	278.6	292.7	298.1	304.6	294.9	303.6	337.2	325.3
47.5°	274.8	274.8	274.2	290.5	307.9	315.0	326.4	318.2	334.0	375.8	357.3
50°	285.6	284.5	279.7	303.0	326.4	335.0	352.4	344.3	368.2	416.0	381.2
52.5°	298.1	295.4	287.8	316.0	346.5	357.3	379.6	374.1	404.0	448.0	394.8
55°	313.9	309.5	299.2	331.8	370.9	381.7	407.8	411.1	438.2	466.5	408.9
57.5°	334.0	325.8	314.4	351.3	399.1	409.4	439.9	446.9	461.0	484.4	426.8
60°	354.1	345.4	335.0	377.9	430.1	444.2	474.1	476.8	479.5	509.4	446.4
62.5°	372.0	367.1	361.1	407.8	472.4	484.9	503.4	499.6	502.8	538.7	462.1
65°	394.8	389.9	388.8	442.0	512.6	523.5	525.7	527.3	539.2	567.5	470.3
67.5°	414.3	412.7	422.5	482.8	549.0	553.3	561.5	570.7	577.2	580.5	416.0
70°	442.0	439.3	461.0	523.5	585.4	594.6	623.4	632.6	587.6	475.7	254.7
72.5°	444.7	449.6	508.8	565.8	639.7	659.8	695.6	646.2	456.7	255.2	79.3
75°	345.9	348.6	525.7	618.5	725.5	738.5	691.8	494.2	204.2	63.0	17.9
77.5°	192.8	203.1	351.3	574.0	659.2	638.6	473.0	218.3	52.7	14.1	9.2
80°	141.2	146.1	169.4	328.5	373.1	328.0	197.1	83.1	28.8	9.8	6.5
82.5°	41.8	45.1	87.4	105.9	132.0	104.8	59.2	63.5	18.5	7.1	5.4
85°	11.4	11.9	29.9	41.8	38.0	24.4	21.7	54.8	7.6	4.9	4.3
87.5°	5.4	5.4	9.2	18.5	15.7	13.0	17.9	32.0	1.6	1.6	1.1
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°	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5	163.5
2.5°	162.4	161.3	156.9	154.8	152.6	148.8	146.6	145.0	144.4	143.4	143.9
5°	159.7	155.8	148.8	142.8	135.8	128.2	123.8	118.9	114.0	112.9	112.4
7.5°	157.5	152.0	141.2	129.8	117.8	104.8	92.9	85.3	77.7	76.6	76.0
10°	156.4	148.8	133.0	116.2	96.7	78.7	65.7	57.0	51.6	48.9	47.8
12.5°	156.4	147.2	126.5	102.6	77.7	58.1	45.1	36.4	32.6	31.0	30.4
15°	157.5	146.1	118.9	86.9	60.8	41.3	31.5	27.2	25.5	25.0	25.5
17.5°	160.2	146.1	111.9	73.3	46.2	30.4	25.0	24.4	23.9	23.9	23.9
20°	164.0	147.2	104.3	61.4	34.2	25.0	23.4	23.4	23.4	23.4	23.4
22.5°	168.3	147.7	95.6	50.0	27.7	22.8	22.3	22.3	22.3	22.3	22.3
25°	172.7	148.8	86.3	39.1	22.8	21.7	21.2	21.7	21.7	21.7	21.7
27.5°	178.1	149.9	77.1	31.0	21.2	20.6	20.6	20.6	20.6	20.6	20.6
30°	183.0	149.9	68.4	25.5	20.1	19.5	19.5	19.5	19.5	19.5	19.5
32.5°	189.0	149.3	59.2	21.2	19.0	18.5	17.9	18.5	18.5	18.5	17.9
35°	197.7	149.3	48.9	19.5	17.9	17.4	16.8	16.8	16.8	16.8	16.8
37.5°	209.1	151.5	38.6	17.9	16.3	15.7	15.7	15.7	15.2	15.2	15.2
40°	225.9	155.3	31.0	16.8	15.2	14.7	14.1	14.1	13.6	13.0	13.0
42.5°	246.0	159.7	25.5	15.7	14.1	13.6	13.0	12.5	11.9	11.4	11.4
45°	266.1	162.9	20.1	14.7	13.0	12.5	11.9	11.4	10.3	9.8	9.2
47.5°	287.3	162.9	16.3	13.6	12.5	11.4	10.9	9.8	8.7	7.6	7.6
50°	299.8	156.9	14.7	12.5	11.4	10.3	9.8	8.1	7.1	6.0	6.0
52.5°	306.8	148.8	13.6	11.4	10.9	9.8	8.1	7.1	5.4	4.3	4.3
55°	312.8	145.0	12.5	10.9	9.8	8.7	7.1	5.4	3.8	3.3	3.3
57.5°	320.4	139.0	11.4	9.8	8.7	7.6	6.0	4.3	2.7	2.2	2.2
60°	326.9	130.9	10.3	9.2	8.1	6.5	4.9	3.3	1.6	1.1	1.1
62.5°	330.2	118.4	9.2	8.1	7.1	5.4	3.8	2.2	1.1	0.5	0.5
65°	320.9	99.4	8.7	7.1	6.0	4.3	2.7	1.1	0.5	0.0	0.0
67.5°	262.3	64.1	7.1	6.0	4.9	3.3	2.2	1.1	0.5	0.0	0.0
70°	134.7	27.2	6.0	4.9	4.3	2.7	1.6	0.5	0.0	0.0	0.0
72.5°	35.3	9.8	4.9	4.3	3.8	2.7	1.1	0.5	0.0	0.0	0.0
75°	10.9	6.5	3.8	3.3	3.3	2.2	1.1	0.5	0.0	0.0	0.0
77.5°	7.6	4.9	3.3	2.7	2.7	2.2	1.1	0.5	0.0	0.0	0.0
80°	6.0	4.3	2.7	2.2	2.7	2.7	1.1	0.5	0.0	0.0	0.0
82.5°	4.9	3.8	2.2	2.2	2.7	2.7	1.6	0.5	0.0	0.0	0.0
85°	3.8	2.7	2.2	2.2	2.7	2.2	1.1	0.5	0.0	0.0	0.0
87.5°	1.1	1.1	0.5	0.5	0.5	1.1	1.1	0.5	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)