

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: P459795

Luminaire Tested: **GWC-SA1A-AMB-U-SL2**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)  
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-SL2  
Description: GALLEON WALL LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1177 lumens  
Efficiency: N/A  
Efficacy: 52.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1

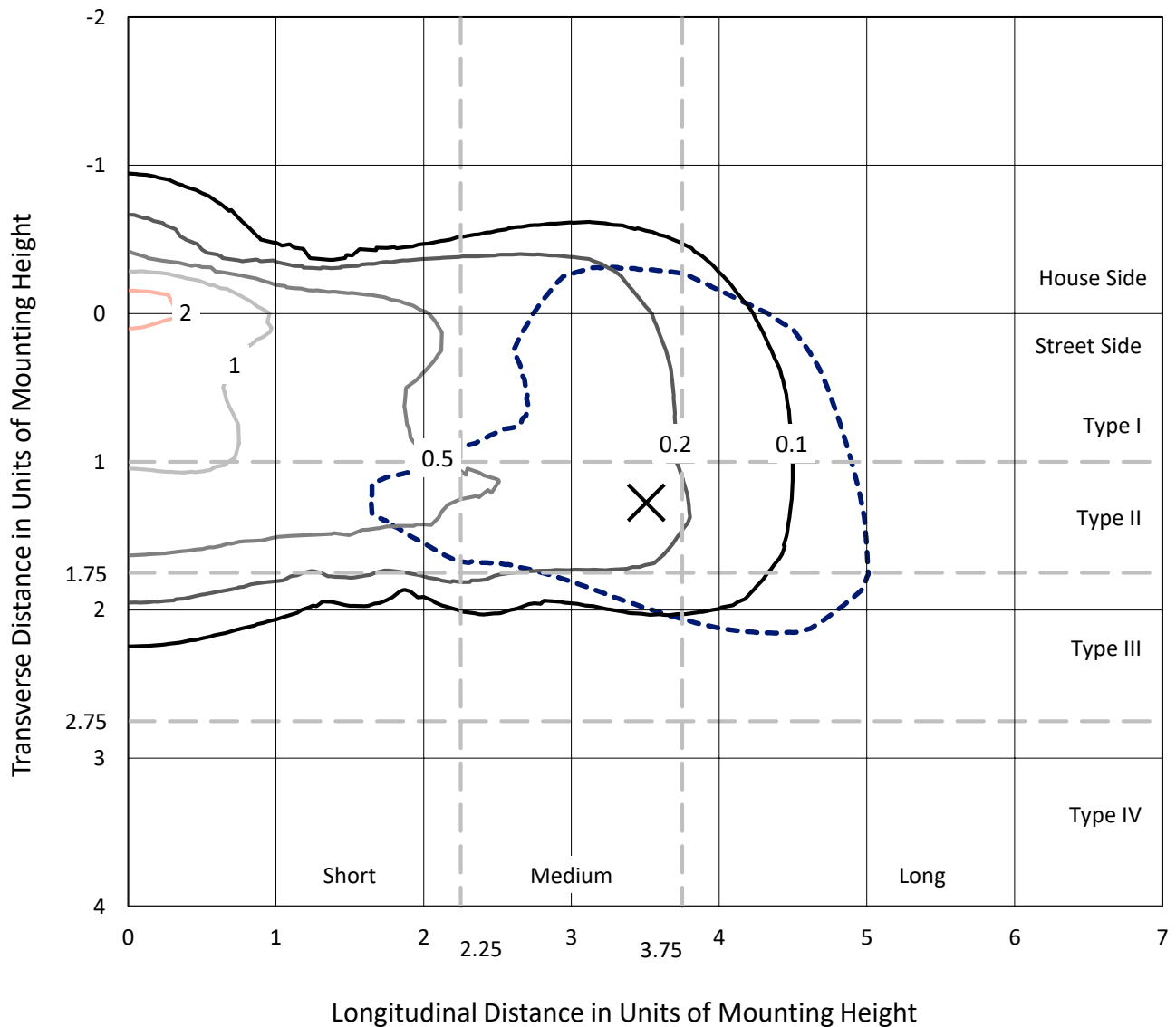
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

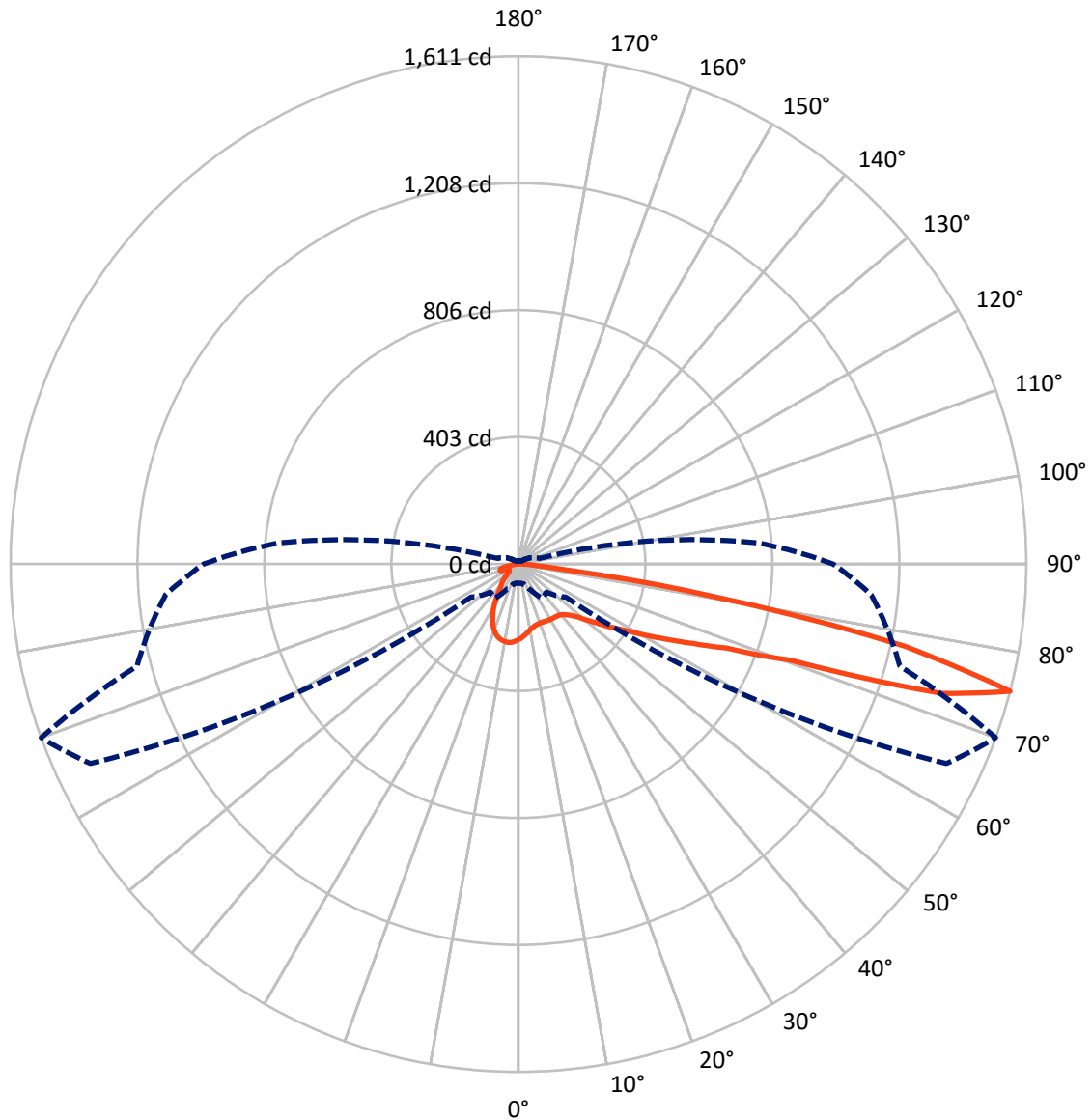


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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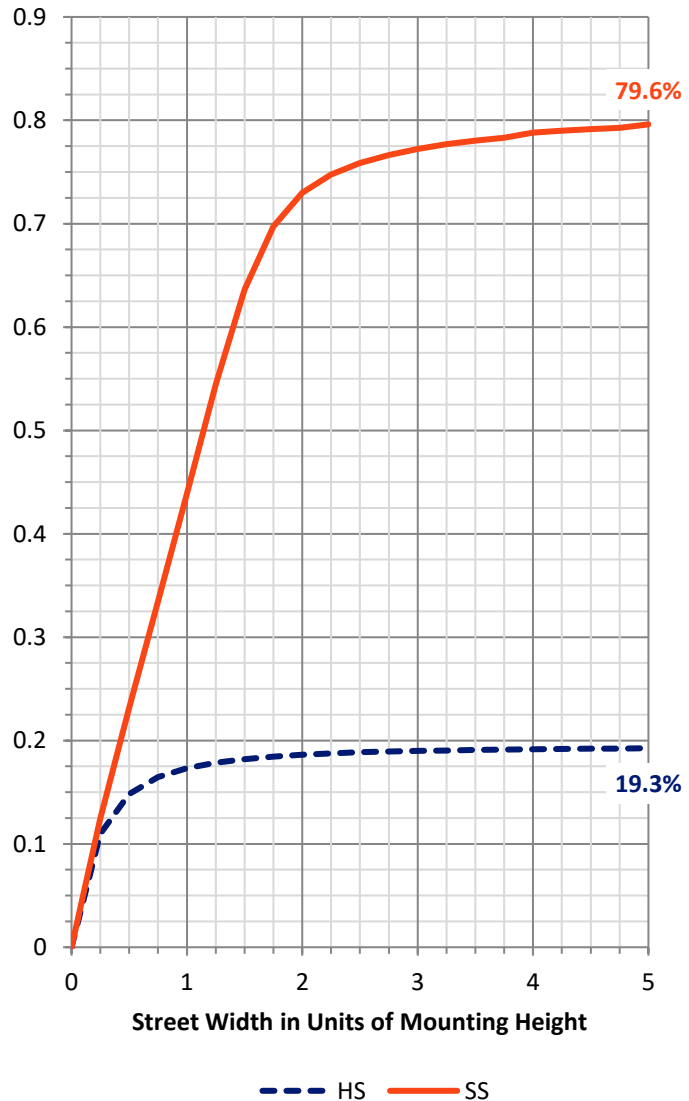
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	229.7	0.0	229.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	947.3	0.0	947.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	1177.0	0.0	1177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.7	1.8
10°-20°	52.7	4.5
20°-30°	70.8	6.0
30°-40°	93.2	7.9
40°-50°	132.9	11.3
50°-60°	207.0	17.6
60°-70°	270.3	23.0
70°-80°	287.3	24.4
80°-90°	41.1	3.5
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°	1177.0	100.0
0°-180°	1177.0	100.0

**Coefficient of Utilization**



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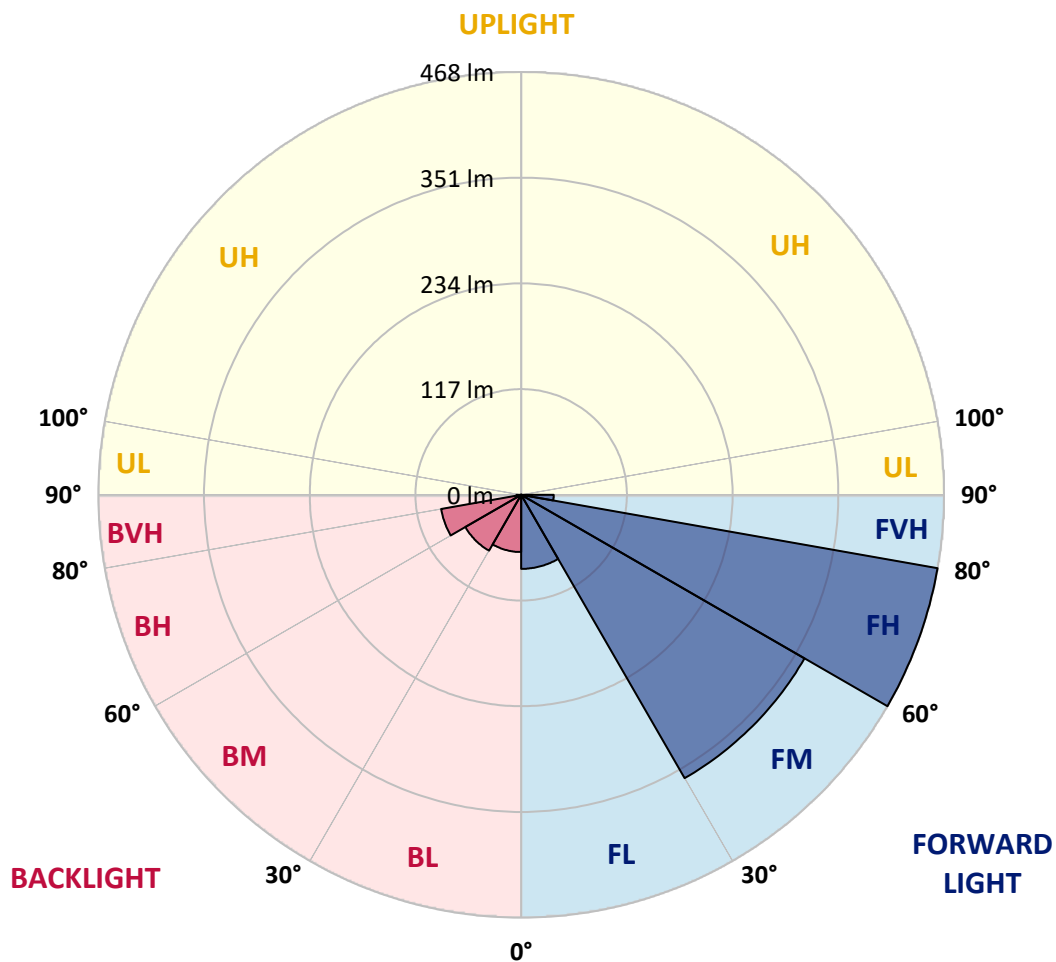
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	81.9	7.0			
FM (30°-60°)	361.8	30.7			
FH (60°-80°)	467.6	39.7			G0/660
FVH (80°-90°)	36.0	3.1			G1/100
BL (0°-30°)	63.3	5.4	B0/110		
BM (30°-60°)	71.3	6.1	B0/220		
BH (60°-80°)	89.9	7.6	B0/110		G0/110
BVH (80°-90°)	5.2	0.4			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4
2.5°	224.3	224.3	225.8	225.8	227.8	228.4	230.4	231.4	232.4	233.9	236.9
5°	208.2	207.7	209.2	211.7	214.2	216.8	220.3	223.8	225.3	227.8	232.9
7.5°	196.1	196.1	197.1	198.6	202.1	205.2	210.7	214.7	218.3	221.8	228.9
10°	187.0	187.0	188.0	189.5	193.1	195.6	200.6	207.7	210.7	215.8	224.8
12.5°	178.4	179.5	180.0	182.0	184.5	188.0	193.1	200.6	205.7	211.7	223.8
15°	174.4	174.4	174.9	176.4	179.0	182.5	188.5	196.6	202.1	209.2	224.3
17.5°	173.4	172.9	172.4	172.9	175.4	179.0	185.0	194.1	200.1	208.2	226.8
20°	173.9	173.4	172.9	171.9	172.9	176.4	184.0	193.1	199.1	207.7	230.9
22.5°	176.4	176.4	175.4	173.4	172.9	175.4	183.5	193.1	199.6	208.2	234.9
25°	183.5	183.0	182.0	177.9	174.9	175.9	183.5	194.1	200.6	209.2	238.4
27.5°	191.0	191.0	190.0	186.5	180.5	177.9	184.5	195.6	202.1	210.2	242.5
30°	203.1	202.6	201.6	197.6	190.0	182.0	186.5	197.1	203.1	210.7	246.0
32.5°	217.8	217.8	218.3	213.2	202.1	189.0	188.5	198.1	203.7	211.2	250.0
35°	234.9	235.4	236.9	232.9	219.3	199.6	193.6	200.6	204.7	211.7	254.1
37.5°	247.5	248.0	253.6	254.6	238.4	213.7	201.6	205.7	206.7	212.7	258.1
40°	262.1	262.1	270.2	276.2	265.7	233.4	212.7	211.7	211.2	216.8	263.1
42.5°	278.3	280.3	287.3	297.4	292.9	256.1	228.4	222.3	219.8	223.8	271.2
45°	293.4	294.4	307.5	319.1	319.6	286.8	250.5	238.9	231.9	236.4	285.8
47.5°	310.0	311.5	327.7	346.3	349.8	319.6	275.7	259.6	250.5	255.1	307.0
50°	334.2	336.7	350.3	373.0	382.6	358.4	308.0	288.3	278.3	280.3	336.7
52.5°	373.0	372.5	379.1	401.3	424.4	401.3	351.4	323.6	310.0	313.0	375.0
55°	396.2	395.7	404.8	429.0	471.3	455.2	399.2	365.5	352.9	351.4	419.4
57.5°	375.5	376.6	392.2	430.0	503.1	539.4	451.7	416.4	394.7	397.2	473.3
60°	314.0	308.0	325.6	377.1	493.5	633.6	526.3	477.9	455.2	450.7	541.4
62.5°	211.7	213.7	225.3	258.6	422.4	659.3	716.8	554.5	523.2	515.2	605.4
65°	159.3	158.8	159.3	164.8	228.9	635.2	913.9	656.3	607.4	580.7	673.0
67.5°	133.1	131.6	131.1	143.7	142.7	399.7	979.4	887.7	710.8	654.3	738.5
70°	112.9	109.9	108.9	129.0	132.6	141.6	971.9	1318.2	912.9	757.1	825.2
72.5°	85.7	85.2	87.2	109.9	130.6	124.0	585.2	1506.7	1403.9	955.8	1004.1
75°	61.0	60.5	66.0	89.2	132.6	126.0	183.0	1497.6	1611.1	1252.7	1123.6
77.5°	40.3	39.8	44.9	64.0	124.5	126.5	119.5	1084.3	1252.7	1173.5	921.0
80°	26.7	25.7	29.2	44.4	99.8	135.6	116.9	536.9	638.7	543.4	306.0
82.5°	15.6	15.1	18.7	30.7	65.5	134.1	118.0	168.9	138.1	70.6	38.3
85°	8.1	8.6	12.1	18.7	42.3	118.5	126.0	86.7	40.3	28.7	19.2
87.5°	2.5	3.5	6.6	10.1	23.7	81.7	111.9	67.0	29.2	18.7	10.6
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°	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4
2.5°	237.9	239.4	242.5	246.0	249.5	251.0	253.1	253.6	254.6	255.1	254.6
5°	236.4	239.9	246.5	251.0	254.1	253.6	253.1	251.5	251.0	250.5	249.5
7.5°	233.4	239.4	249.0	253.1	251.0	245.0	239.9	233.9	231.9	229.4	228.9
10°	231.9	240.5	250.0	249.5	241.5	229.9	219.8	210.2	203.7	199.6	197.6
12.5°	233.4	244.0	252.0	243.0	228.9	211.2	193.6	179.0	164.3	159.3	156.8
15°	237.9	249.5	252.0	234.4	212.7	187.5	160.8	137.6	120.5	111.9	110.4
17.5°	243.5	254.1	248.5	223.8	194.1	157.8	126.0	96.3	83.2	79.6	79.1
20°	250.0	259.6	243.0	210.7	169.9	127.0	85.7	70.6	69.1	69.6	70.1
22.5°	255.6	262.1	233.9	193.1	141.1	85.2	60.0	57.0	60.0	64.0	65.0
25°	259.6	260.6	223.8	170.9	108.4	54.4	47.4	46.9	51.4	58.5	60.5
27.5°	262.1	255.6	210.2	147.2	66.5	42.3	38.8	40.3	43.9	48.9	49.9
30°	263.6	250.5	197.1	122.5	42.3	35.8	35.3	36.3	37.8	40.3	40.8
32.5°	264.1	245.5	183.0	91.2	35.8	32.8	32.8	33.8	34.3	35.8	35.8
35°	263.1	239.4	168.9	57.5	32.8	31.8	31.3	31.3	31.3	31.8	31.8
37.5°	260.6	233.4	152.2	38.3	31.3	30.2	29.7	29.7	29.2	29.2	29.2
40°	259.1	228.4	136.6	33.3	29.7	29.2	28.7	27.7	27.2	27.2	27.2
42.5°	260.6	225.8	117.5	31.8	28.7	28.2	27.2	26.2	26.2	26.2	26.2
45°	267.2	226.3	93.3	30.7	28.2	27.2	25.7	24.7	24.7	25.2	25.2
47.5°	279.8	230.9	72.1	29.7	27.2	26.2	24.2	23.7	23.7	23.7	23.7
50°	298.9	239.9	57.0	28.7	26.7	25.2	23.7	22.7	22.7	22.7	22.2
52.5°	326.1	256.6	44.9	28.2	26.2	24.7	22.7	21.7	21.2	21.2	20.7
55°	364.0	282.8	41.3	28.2	25.2	23.7	21.7	20.2	19.7	19.2	19.2
57.5°	414.4	320.1	40.8	27.7	23.7	22.2	20.2	18.7	18.1	18.1	17.6
60°	475.9	370.0	41.3	26.7	22.7	20.7	18.7	17.6	16.6	16.6	16.6
62.5°	544.9	424.4	41.3	26.2	22.2	19.7	17.6	16.1	15.6	15.1	15.1
65°	615.0	491.0	44.4	25.7	21.2	17.6	16.1	15.1	14.1	14.1	14.1
67.5°	692.1	572.1	60.5	25.7	20.2	16.1	14.6	13.6	13.1	13.1	13.1
70°	791.9	706.2	91.7	32.3	20.7	15.1	13.1	12.6	12.1	12.1	12.1
72.5°	997.1	861.0	73.1	44.9	24.2	13.6	11.6	11.1	11.1	10.6	10.6
75°	998.1	763.7	69.6	47.9	26.2	12.6	10.6	10.1	9.6	9.6	9.6
77.5°	738.0	498.5	59.5	37.3	22.7	11.1	9.6	9.1	8.6	8.6	8.6
80°	217.8	128.5	37.3	27.2	14.6	9.1	8.1	7.6	7.1	7.1	7.1
82.5°	37.3	33.8	17.1	14.6	9.1	7.1	6.6	6.0	5.5	5.5	5.5
85°	18.1	17.6	9.6	8.1	6.0	5.0	5.0	4.5	4.0	4.0	4.0
87.5°	11.1	10.1	7.1	4.5	3.5	2.5	3.0	2.5	2.5	2.0	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

(END OF REPORT)