

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: P459796

Luminaire Tested: **GWC-SA1A-AMB-U-SL3-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-7)
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-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 963 lumens
Efficiency: N/A
Efficacy: 42.6 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

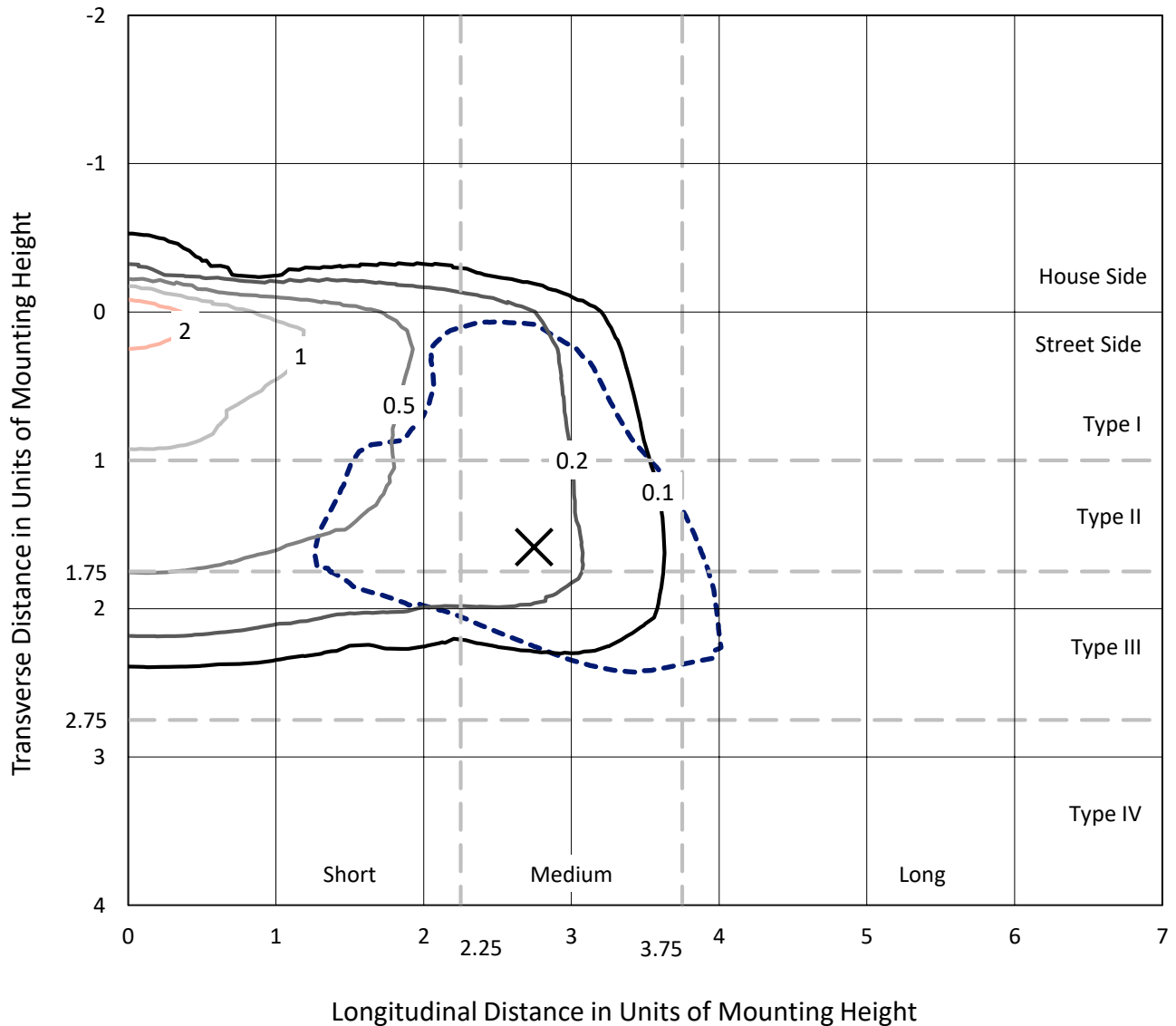
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

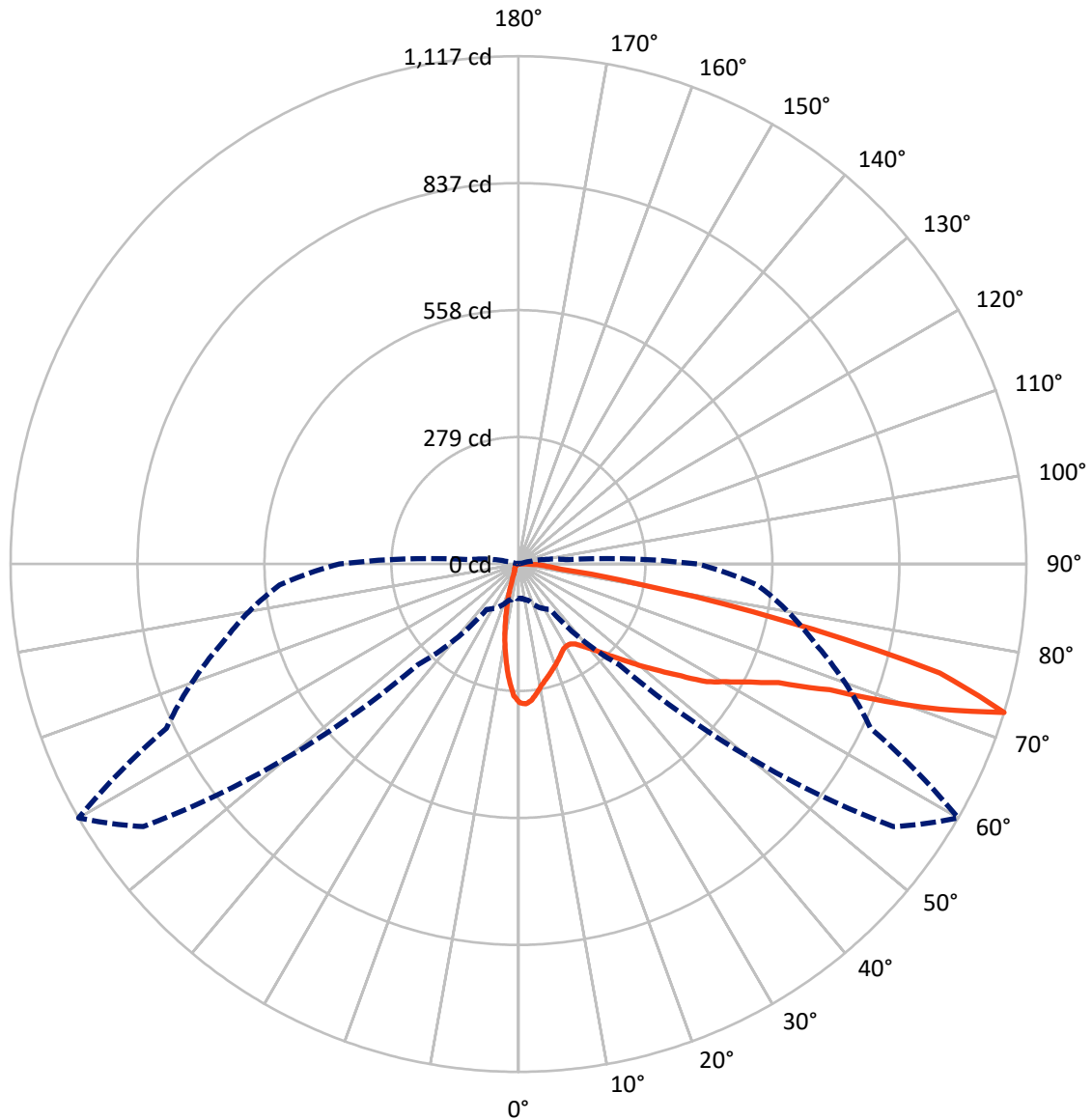
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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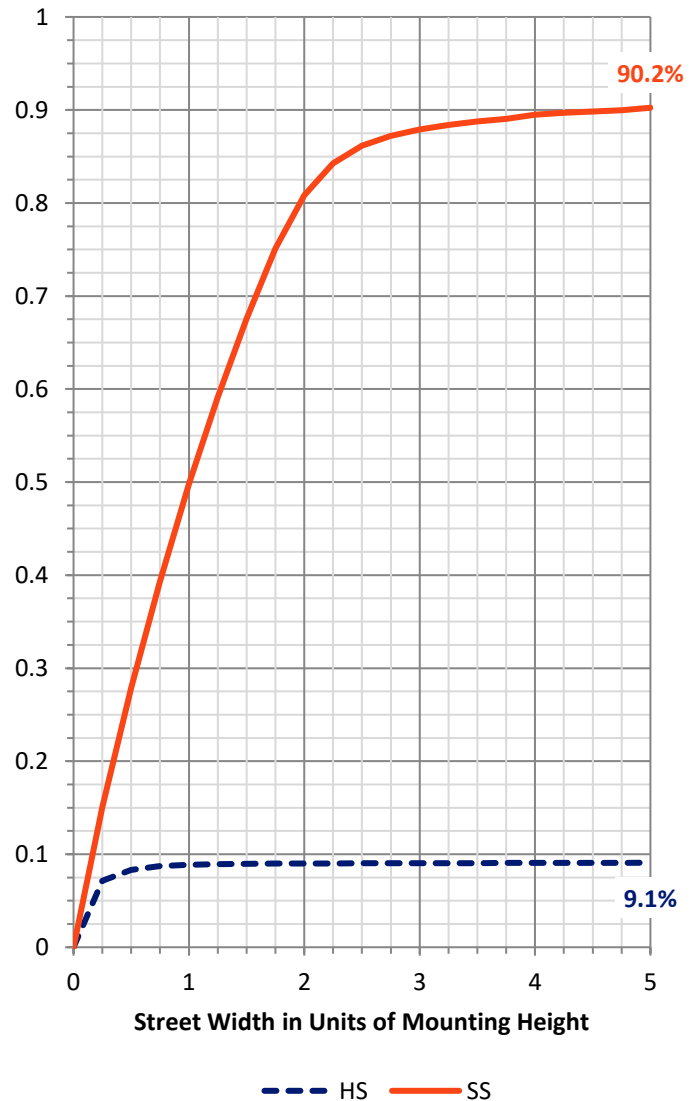
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.4	0.0	88.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	874.6	0.0	874.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	963.0	0.0	963.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	2.5
10°-20°	46.3	4.8
20°-30°	60.7	6.3
30°-40°	81.9	8.5
40°-50°	121.9	12.7
50°-60°	189.1	19.6
60°-70°	259.4	26.9
70°-80°	163.6	17.0
80°-90°	16.4	1.7
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°	963.0	100.0
0°-180°	963.0	100.0



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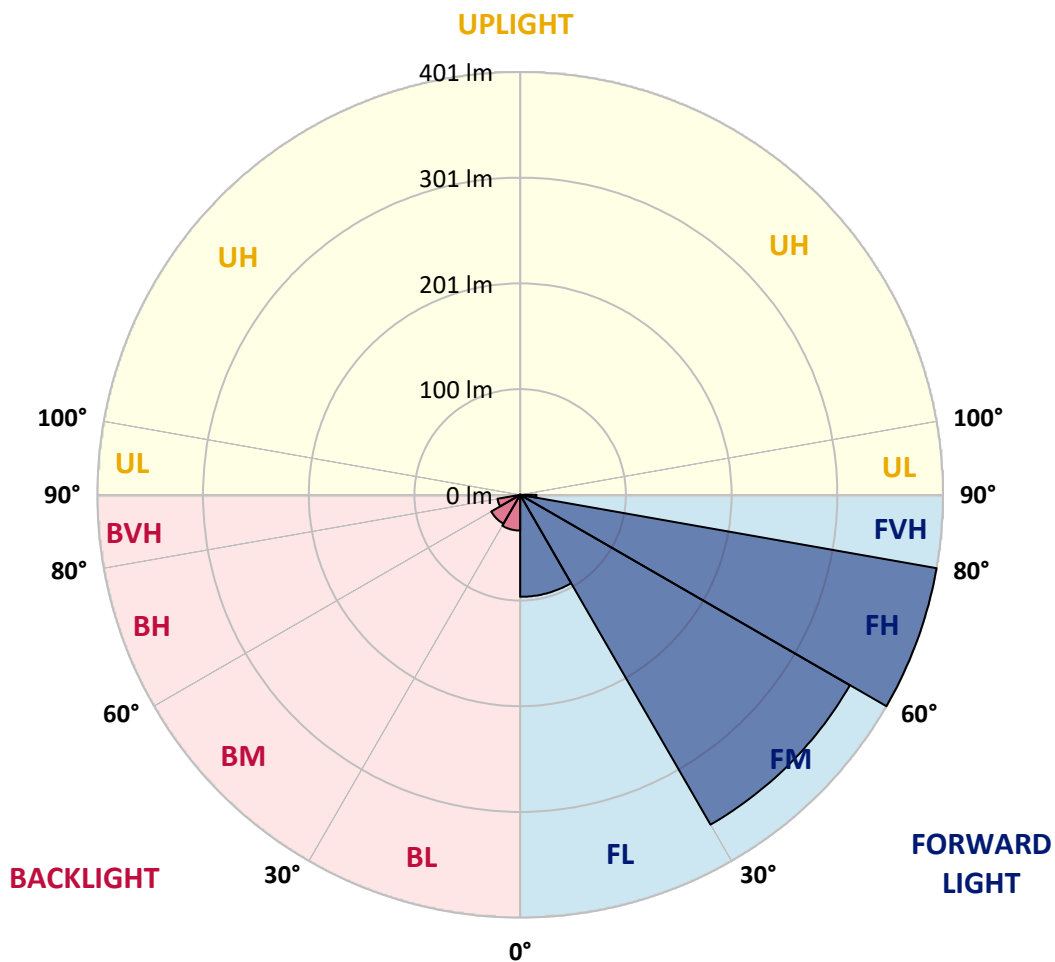
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.8	10.0			
FM	(30°-60°)	361.2	37.5			
FH	(60°-80°)	401.1	41.7			G0/660
FVH	(80°-90°)	15.5	1.6			G1/100
BL	(0°-30°)	33.9	3.5	B0/110		
BM	(30°-60°)	31.7	3.3	B0/220		
BH	(60°-80°)	21.9	2.3	B0/110		G0/110
BVH	(80°-90°)	0.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5
2.5°	309.7	309.2	309.2	309.7	310.2	308.7	308.7	308.2	306.6	306.1	303.0
5°	290.0	291.6	291.6	293.6	295.7	296.8	300.9	300.9	300.4	300.4	295.7
7.5°	266.1	266.1	269.8	273.4	278.6	280.2	284.8	286.9	287.9	290.5	286.4
10°	244.9	246.4	246.9	252.1	256.8	262.5	270.3	272.9	275.5	280.7	276.5
12.5°	228.8	229.8	231.4	236.1	241.8	248.0	257.3	262.0	264.6	271.9	268.7
15°	212.2	213.2	216.3	220.5	228.3	236.1	246.4	252.7	257.3	265.6	263.0
17.5°	201.3	201.8	202.3	206.0	213.7	224.1	237.1	243.3	249.5	259.9	258.9
20°	196.1	196.6	196.1	198.2	202.9	211.7	227.2	235.5	242.3	257.3	255.8
22.5°	194.5	195.1	194.0	193.5	195.6	203.4	217.4	226.7	236.1	256.8	254.7
25°	195.6	195.6	194.0	192.5	192.5	196.6	208.6	218.4	229.8	257.8	253.7
27.5°	199.7	199.2	197.7	194.5	192.0	193.5	202.9	211.7	224.1	259.4	253.7
30°	204.9	204.4	203.9	201.3	196.6	193.5	200.3	208.6	221.0	263.0	254.2
32.5°	210.6	211.2	211.2	209.1	203.9	197.1	201.8	209.6	221.5	268.2	255.8
35°	221.0	220.0	221.5	220.5	214.8	206.0	209.6	216.3	226.7	273.9	259.4
37.5°	230.9	230.9	232.9	233.5	228.3	217.4	222.0	228.8	235.0	283.3	266.1
40°	242.3	241.8	244.9	248.0	243.8	234.5	239.2	244.9	250.6	297.3	277.6
42.5°	251.6	252.7	257.3	262.5	264.1	251.1	258.9	265.1	267.7	312.8	294.7
45°	260.4	262.0	270.8	279.1	284.3	273.9	282.7	289.5	292.1	332.5	315.4
47.5°	269.8	271.9	282.7	295.7	305.1	299.9	309.7	318.0	319.6	356.9	346.6
50°	279.6	281.7	294.2	311.8	327.4	330.5	342.9	352.8	351.2	381.3	378.2
52.5°	292.1	294.7	311.8	331.5	352.8	362.1	381.3	390.1	385.5	413.0	407.3
55°	324.8	325.8	337.7	358.0	379.8	398.4	426.5	434.2	422.3	436.3	436.8
57.5°	380.3	380.3	382.9	389.1	409.3	436.8	481.4	488.2	465.9	460.2	462.8
60°	413.5	418.7	429.6	441.5	450.8	478.3	525.0	525.0	493.4	485.1	486.1
62.5°	405.2	409.3	441.5	468.5	510.5	545.8	572.2	571.2	524.5	508.4	515.7
65°	296.8	304.0	345.5	430.1	533.8	639.2	651.1	628.3	562.9	543.7	573.3
67.5°	159.3	165.0	199.7	275.5	421.3	703.0	813.0	738.3	631.9	615.8	631.9
70°	104.8	103.8	106.4	135.4	230.3	582.6	1029.8	944.7	746.6	673.4	632.4
72.5°	75.7	75.7	82.5	104.8	121.9	312.8	1006.5	1116.5	853.9	675.0	527.1
75°	50.8	51.9	62.8	84.6	113.6	102.7	782.9	956.7	839.4	506.9	275.0
77.5°	26.5	28.0	41.5	66.9	104.3	91.8	438.4	592.5	493.4	232.9	61.2
80°	11.9	12.5	18.2	50.3	95.5	85.1	143.2	264.1	156.2	28.0	10.4
82.5°	5.7	5.7	7.8	24.9	78.9	73.2	88.2	93.9	36.8	8.8	7.3
85°	2.1	2.1	4.2	14.0	46.7	44.1	75.2	62.8	20.8	5.7	5.2
87.5°	1.0	1.0	1.6	4.2	12.5	35.8	51.9	41.5	8.8	2.1	2.1
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°	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5
2.5°	301.4	299.9	295.7	292.1	287.4	281.2	280.2	273.9	268.7	268.2	266.7
5°	293.1	288.5	278.1	263.0	249.0	237.6	225.2	217.4	213.2	208.6	211.7
7.5°	281.7	273.9	253.2	229.8	207.0	187.3	168.1	154.1	148.4	140.1	141.6
10°	269.8	258.9	228.8	193.5	163.9	134.9	110.0	89.2	78.3	74.7	74.7
12.5°	261.5	245.9	203.9	159.8	120.9	83.5	60.7	44.1	33.2	29.6	29.6
15°	253.2	234.0	181.1	127.6	79.9	48.2	29.1	24.9	24.4	24.4	24.4
17.5°	245.9	220.0	157.2	97.5	52.4	27.0	23.9	23.3	22.8	22.8	22.8
20°	238.6	207.5	137.0	70.0	29.1	22.8	21.8	21.8	21.8	21.8	21.3
22.5°	231.9	196.6	115.2	48.2	22.3	20.8	20.2	20.2	20.2	19.7	19.7
25°	226.7	186.8	95.5	30.6	19.7	19.2	18.7	18.2	17.6	17.6	17.6
27.5°	221.5	177.4	74.7	21.3	18.2	17.1	16.6	16.1	15.0	15.0	14.5
30°	217.9	168.1	59.7	18.2	16.6	15.6	14.5	13.5	12.5	11.9	11.9
32.5°	215.8	160.8	44.6	16.6	15.0	13.5	12.5	11.4	10.4	9.3	9.3
35°	214.3	153.6	30.6	15.0	13.5	11.9	10.9	9.3	7.8	7.3	7.3
37.5°	216.9	148.4	20.8	14.0	12.5	10.9	8.8	7.8	6.7	6.2	6.2
40°	222.6	144.2	16.6	13.0	11.4	9.3	7.8	6.2	5.2	4.7	4.7
42.5°	232.4	142.7	14.5	12.5	10.4	8.3	6.2	5.2	4.7	4.2	4.2
45°	250.6	142.2	13.5	11.4	9.3	6.7	5.2	4.2	3.6	3.1	3.1
47.5°	270.8	143.2	13.0	10.9	8.3	6.2	4.7	3.6	3.1	2.6	2.6
50°	295.7	147.3	11.9	9.9	7.8	5.2	3.6	3.1	2.1	2.1	2.1
52.5°	319.6	151.5	11.4	9.3	6.7	4.7	3.1	2.1	2.1	1.6	1.6
55°	342.9	160.8	10.4	9.3	6.2	3.6	2.6	2.1	1.6	1.0	1.0
57.5°	366.3	167.6	9.9	8.3	5.2	3.1	2.1	1.6	1.0	1.0	1.0
60°	390.1	173.8	8.8	7.3	4.2	2.6	1.6	1.0	1.0	1.0	1.0
62.5°	420.2	184.2	7.8	6.2	3.6	2.1	1.6	1.0	0.5	0.5	0.5
65°	476.8	201.8	6.7	5.2	2.6	2.1	1.6	1.0	0.5	0.5	0.5
67.5°	513.1	199.2	5.7	4.2	2.6	1.6	1.0	1.0	0.5	0.5	0.5
70°	505.8	180.0	4.7	3.6	2.1	1.6	1.0	1.0	0.5	0.5	0.5
72.5°	393.2	109.5	4.2	3.1	2.1	1.6	1.0	1.0	0.5	0.5	0.5
75°	179.5	24.4	3.6	2.6	1.6	1.6	1.0	1.0	0.5	0.5	0.5
77.5°	31.6	6.2	3.1	2.1	2.1	1.6	1.6	1.0	0.5	0.5	0.5
80°	8.3	4.2	3.1	2.1	2.1	2.6	2.1	1.6	0.5	0.5	0.5
82.5°	5.7	3.1	3.1	2.6	2.6	3.1	2.6	1.6	0.5	0.5	0.5
85°	4.2	2.6	3.1	3.1	2.1	2.6	2.6	1.6	0.5	0.5	0.5
87.5°	2.1	1.0	1.0	1.0	1.0	1.6	1.6	0.5	0.5	0.5	0.5
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)