

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: P459794

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-5)
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-HSS
Description: GALLEON WALL LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 939 lumens
Efficiency: N/A
Efficacy: 41.5 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 (A_{in}): 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

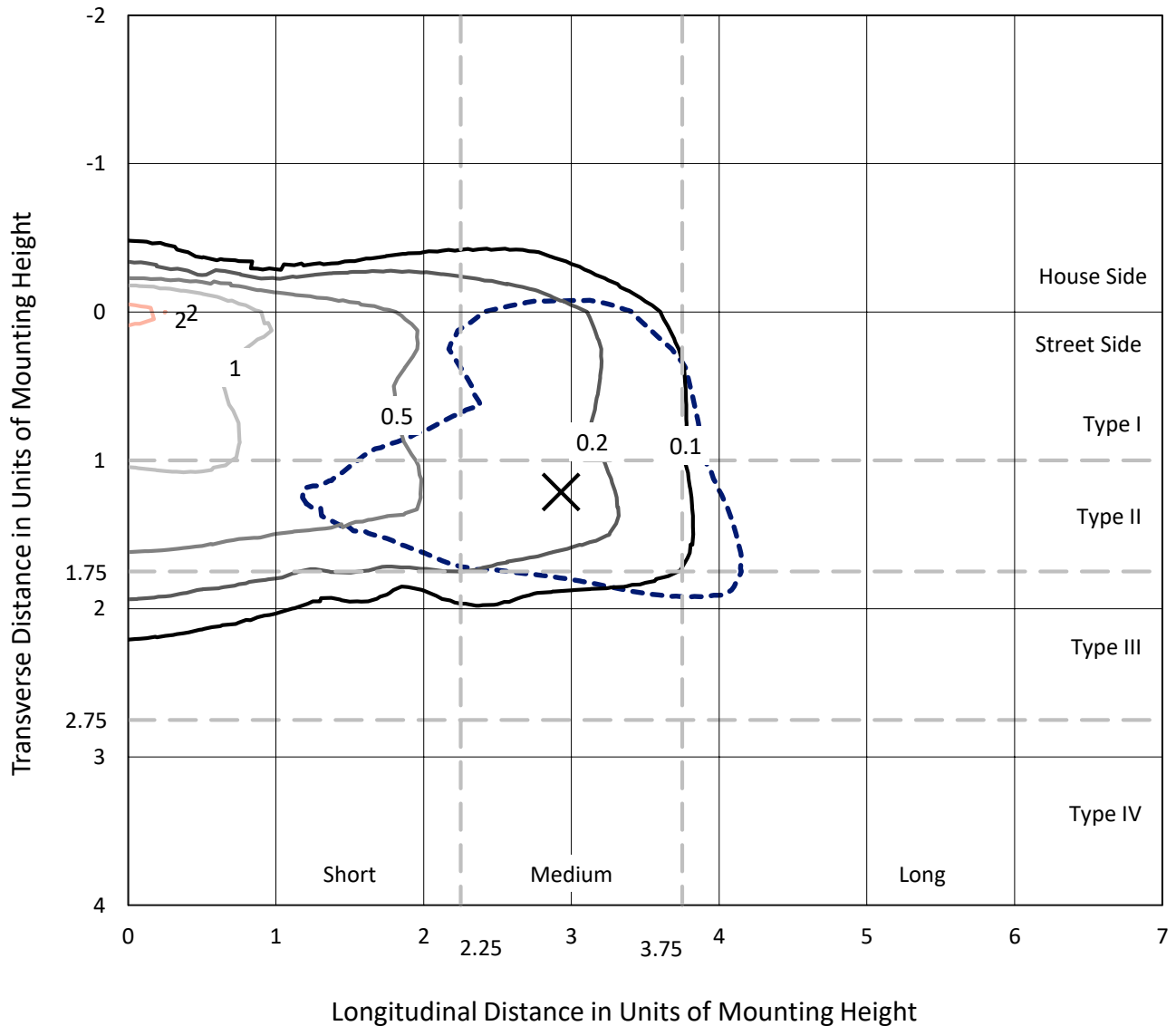


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

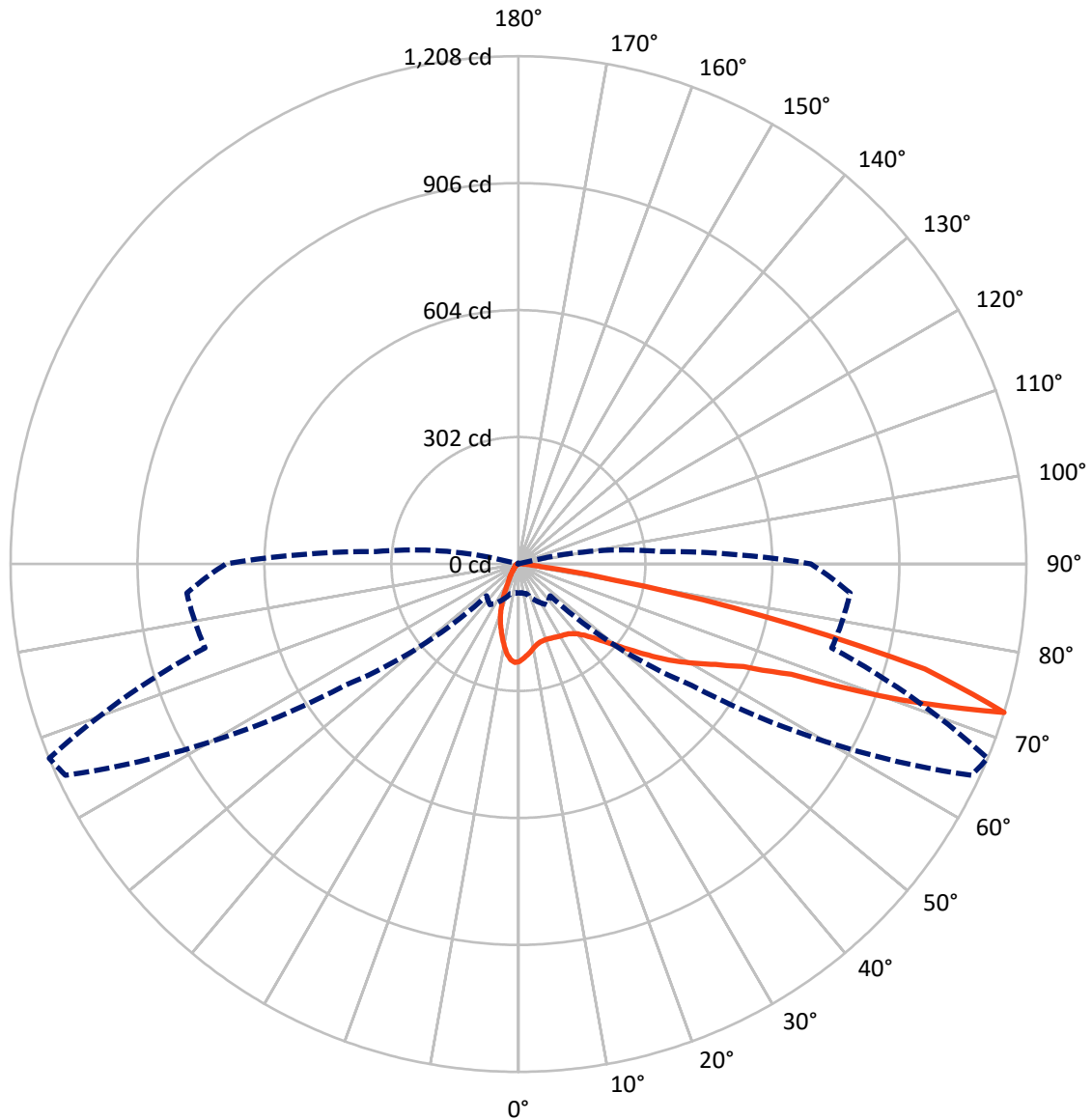


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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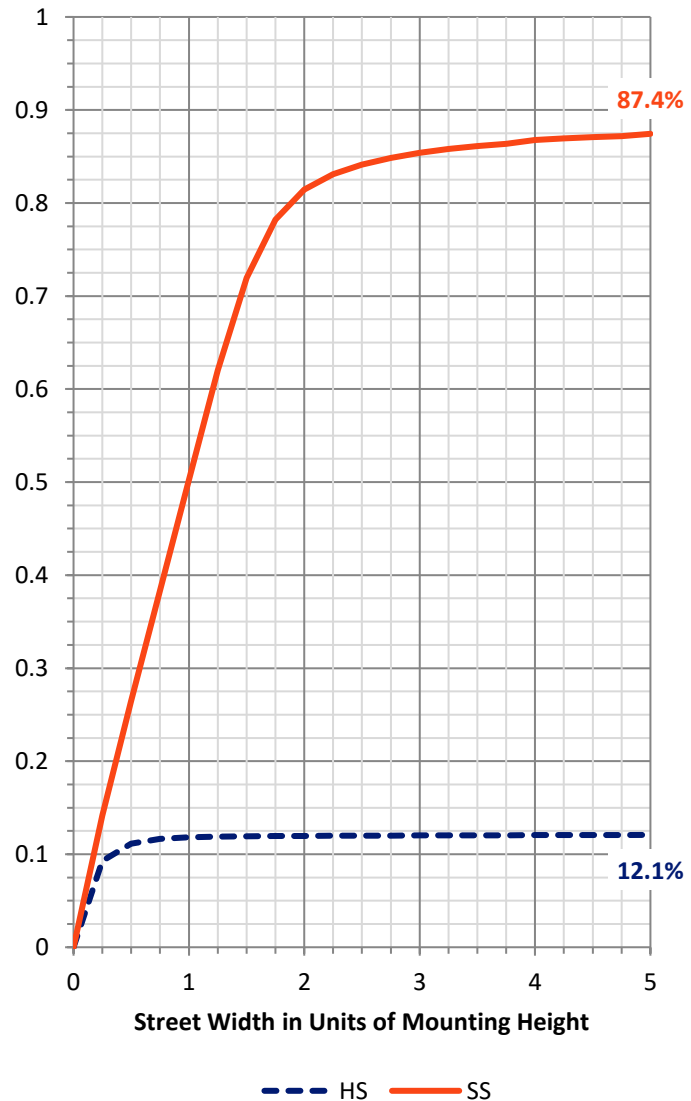
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	114.5	0.0	114.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	824.5	0.0	824.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	939.0	0.0	939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	2.0
10°-20°	40.4	4.3
20°-30°	57.0	6.1
30°-40°	81.7	8.7
40°-50°	123.2	13.1
50°-60°	197.6	21.0
60°-70°	233.6	24.9
70°-80°	170.6	18.2
80°-90°	15.8	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°	939.0	100.0
0°-180°	939.0	100.0

Coefficient of Utilization



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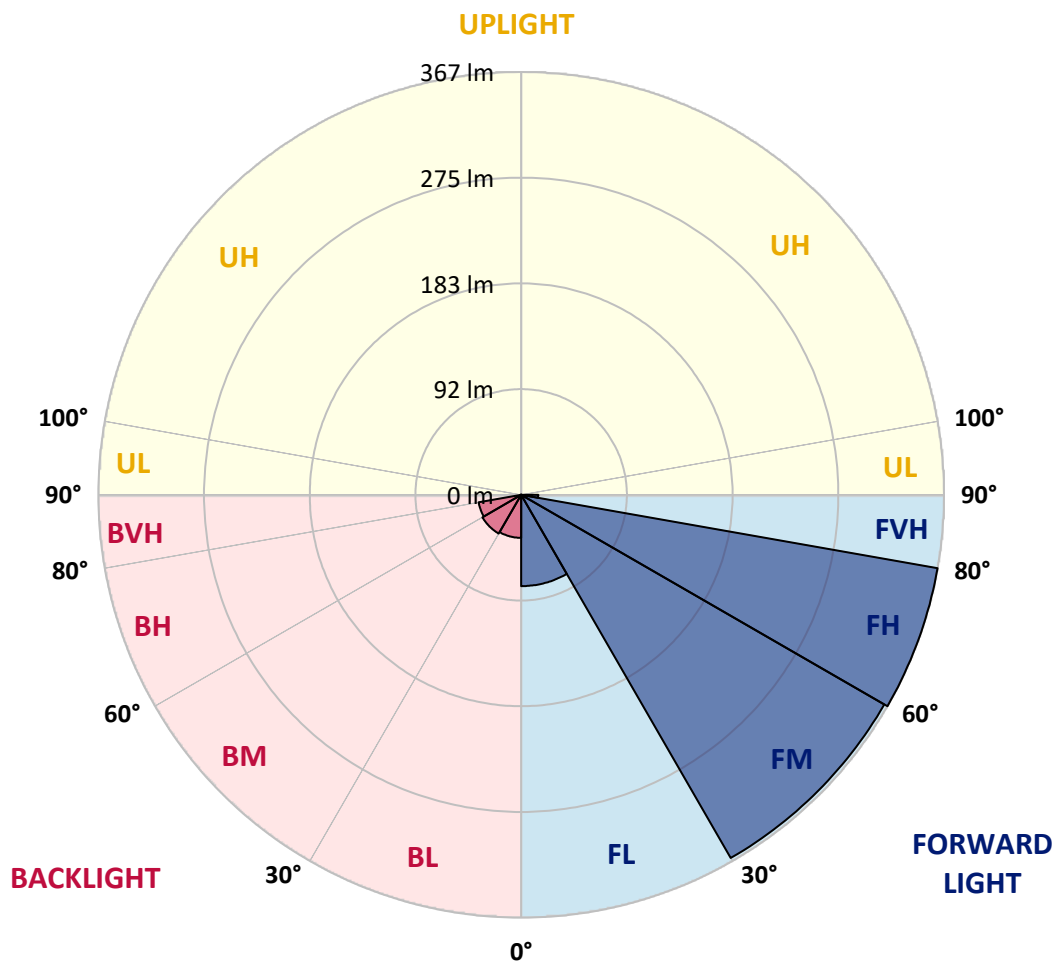
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	79.2	8.4			
FM	(30°-60°)	363.7	38.7			
FH	(60°-80°)	366.8	39.1			G0/660
FVH	(80°-90°)	14.8	1.6			G1/100
BL	(0°-30°)	37.3	4.0	B0/110		
BM	(30°-60°)	38.8	4.1	B0/220		
BH	(60°-80°)	37.4	4.0	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	65°	67.5°	75°	85°
0°	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1
2.5°	217.6	218.6	218.6	220.2	220.7	221.2	224.3	225.3	224.8	227.9	230.0
5°	203.1	203.1	204.1	206.7	208.8	210.3	214.0	217.1	217.6	221.2	226.9
7.5°	191.2	192.3	192.3	193.8	196.9	199.5	204.1	209.3	210.3	215.0	221.7
10°	181.9	181.4	183.0	184.5	187.1	189.7	194.8	200.5	202.6	207.8	215.5
12.5°	173.1	173.7	174.2	176.8	179.9	182.4	187.6	194.3	196.4	203.1	212.4
15°	168.0	168.0	168.5	170.0	173.1	176.8	183.0	190.2	192.8	200.5	211.4
17.5°	166.4	166.4	165.9	166.4	169.0	172.6	179.9	188.6	191.2	199.5	212.9
20°	166.9	166.9	165.9	165.4	166.9	170.6	178.8	188.1	191.2	201.0	217.1
22.5°	170.0	169.5	168.5	166.9	166.9	170.6	179.3	189.2	192.3	203.1	220.7
25°	177.8	175.7	174.7	171.6	169.5	171.1	179.9	190.7	193.8	204.7	225.9
27.5°	185.0	184.5	184.5	181.4	174.7	173.1	181.9	193.3	195.9	206.7	232.6
30°	197.4	196.4	196.4	192.8	184.5	177.3	184.0	195.4	198.5	208.3	239.3
32.5°	212.9	213.5	212.4	207.8	197.4	185.0	187.6	197.9	200.5	209.3	246.0
35°	230.0	230.5	233.1	227.9	214.5	196.9	193.3	202.6	204.1	211.4	251.2
37.5°	243.9	243.9	250.7	251.7	235.2	211.4	202.6	210.3	209.8	214.0	256.3
40°	259.4	259.4	267.2	273.4	261.5	231.0	214.5	219.7	218.6	219.7	263.6
42.5°	276.0	277.0	285.3	296.1	289.9	256.3	231.5	234.1	232.1	229.0	271.3
45°	292.0	294.6	306.0	320.4	319.9	286.3	253.8	254.3	250.7	244.5	287.4
47.5°	310.6	312.7	328.7	346.8	351.4	320.4	282.2	280.1	275.5	265.7	309.1
50°	342.1	343.2	354.5	375.7	384.5	358.2	314.2	310.6	305.4	293.0	338.5
52.5°	379.9	379.4	384.5	406.7	430.5	402.1	356.1	350.9	342.7	326.6	374.7
55°	396.4	398.0	405.7	432.6	478.6	466.2	403.1	395.9	387.1	366.4	411.9
57.5°	367.5	367.5	383.0	425.4	505.5	550.9	455.8	444.5	433.6	407.3	454.3
60°	294.1	293.6	312.2	363.3	485.3	624.8	529.2	495.1	478.6	443.4	496.7
62.5°	206.2	202.1	210.3	253.2	397.4	625.9	666.2	547.8	525.6	480.7	541.6
65°	147.8	145.2	146.8	158.7	227.9	565.9	817.6	627.9	588.2	519.9	595.9
67.5°	120.9	117.8	117.3	131.8	131.3	374.7	863.1	786.1	699.3	577.3	657.4
70°	96.6	95.1	94.6	115.3	121.5	122.0	804.7	1124.1	970.1	662.6	739.6
72.5°	68.7	68.7	72.9	95.6	117.8	107.0	503.4	1188.7	1207.8	771.6	791.8
75°	41.3	40.8	51.2	76.0	113.7	103.4	155.6	980.9	998.5	722.5	612.4
77.5°	19.6	19.6	28.4	51.2	100.8	97.2	88.9	586.6	590.7	438.8	310.6
80°	7.8	7.8	12.4	31.5	76.5	96.1	82.7	241.9	233.1	120.9	42.9
82.5°	3.1	3.1	5.2	17.6	47.5	79.1	73.4	80.1	60.0	14.0	11.4
85°	0.5	1.0	2.1	10.3	26.9	41.9	59.4	49.6	31.5	8.3	8.3
87.5°	0.0	0.5	1.0	3.1	7.8	17.6	30.0	22.7	14.5	2.6	3.6
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°	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1	232.1
2.5°	230.5	231.5	233.6	234.6	235.2	233.1	233.1	231.0	230.5	230.5	230.5
5°	227.9	230.0	231.5	227.9	222.2	215.0	206.7	201.6	196.4	197.4	195.4
7.5°	224.8	227.4	225.3	213.5	199.0	185.5	171.1	162.8	153.0	151.9	149.4
10°	220.2	222.8	215.0	194.3	172.1	152.5	131.3	118.4	108.0	99.7	97.7
12.5°	219.1	220.7	202.6	174.2	145.2	117.3	89.9	65.6	51.2	43.9	43.9
15°	219.7	219.7	191.2	154.0	116.3	77.5	43.4	31.5	26.4	25.8	25.3
17.5°	222.2	219.1	179.9	134.4	85.3	40.3	25.8	23.8	22.7	22.7	22.7
20°	226.9	219.1	170.0	113.7	53.8	25.3	22.2	21.2	20.7	20.2	20.2
22.5°	231.5	217.1	157.6	89.9	31.0	21.2	19.6	19.1	18.1	17.6	17.6
25°	236.7	215.0	145.7	64.6	21.7	18.6	17.1	16.0	15.0	14.5	14.5
27.5°	241.4	212.9	131.8	40.8	19.1	16.5	15.0	13.4	11.9	11.4	11.4
30°	244.5	209.3	118.4	25.8	17.1	15.0	12.9	10.9	9.3	8.8	8.8
32.5°	245.0	204.7	101.8	19.1	15.5	12.9	10.3	8.8	7.8	7.2	7.2
35°	243.4	199.0	83.7	17.1	14.0	11.4	8.8	7.2	6.2	6.2	6.2
37.5°	241.4	193.3	65.1	15.5	12.4	9.8	7.2	6.2	5.7	5.2	5.2
40°	240.8	187.6	43.4	14.5	11.4	8.3	6.2	5.2	4.7	4.1	4.1
42.5°	242.4	183.5	30.5	13.4	9.8	7.2	5.7	4.7	3.6	3.6	3.1
45°	250.1	182.4	22.2	12.4	8.8	6.2	4.7	3.6	3.1	2.6	2.6
47.5°	263.1	184.5	18.1	11.4	7.8	5.2	4.1	3.1	2.6	2.1	2.1
50°	281.7	192.3	16.5	10.3	6.2	4.7	3.1	2.6	2.1	2.1	2.1
52.5°	310.6	204.7	15.5	9.3	5.2	3.6	2.6	2.1	1.6	1.6	1.6
55°	341.6	219.1	15.0	8.3	4.7	3.1	2.1	1.6	1.6	1.0	1.0
57.5°	377.3	238.3	14.0	7.2	4.1	3.1	2.1	1.6	1.0	1.0	1.0
60°	422.3	264.1	12.4	6.2	3.6	2.6	1.6	1.0	1.0	1.0	1.0
62.5°	468.8	291.0	10.9	5.2	3.1	2.1	1.6	1.0	1.0	1.0	1.0
65°	525.6	322.0	9.3	4.1	2.6	2.1	1.6	1.0	1.0	0.5	0.5
67.5°	594.4	353.5	7.2	3.6	2.6	1.6	1.6	1.0	1.0	0.5	0.5
70°	682.2	393.8	6.2	3.1	2.1	1.6	1.6	1.0	1.0	0.5	0.5
72.5°	695.7	340.1	5.2	3.1	2.1	1.6	1.6	1.0	1.0	0.5	0.5
75°	475.5	162.3	4.7	2.6	2.1	2.1	1.6	1.0	1.0	0.5	0.5
77.5°	207.2	38.2	4.1	2.6	2.1	2.1	2.1	1.6	1.0	0.5	0.5
80°	24.3	7.2	3.6	2.6	2.1	2.6	2.1	1.6	1.0	0.5	0.5
82.5°	9.8	4.7	3.6	3.1	2.6	2.1	2.1	1.6	1.0	0.5	0.5
85°	7.2	3.6	3.6	3.6	2.6	1.6	1.6	1.0	1.0	0.5	0.5
87.5°	3.6	1.6	1.0	1.0	1.0	1.0	1.0	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)