

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: P459802

Luminaire Tested: **GWC-SA2A-AMB-U-SL2-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459802
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-SA2A-AMB-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH 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: 1775 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 41.7
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

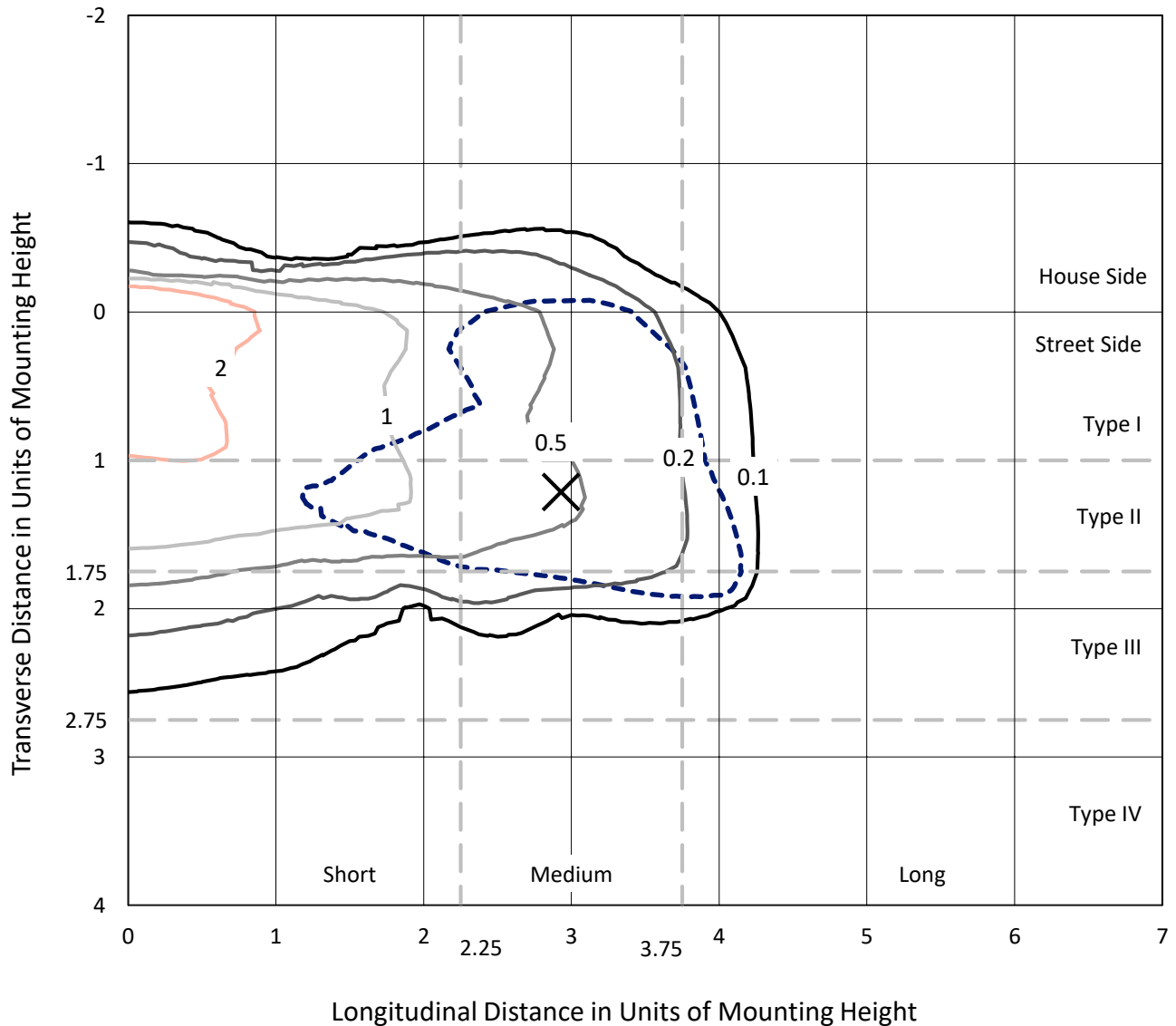


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

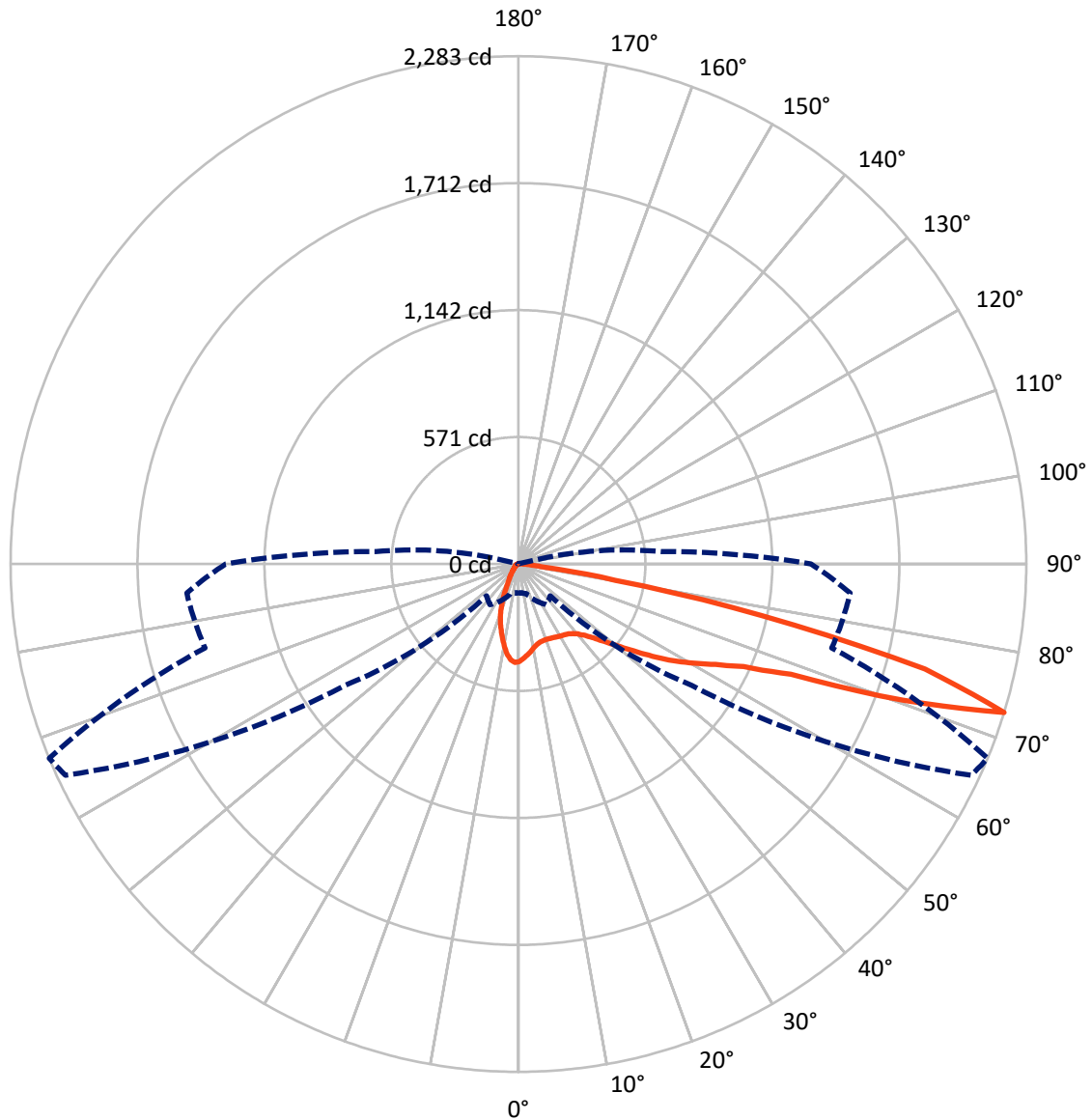


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - Non-Cutoff

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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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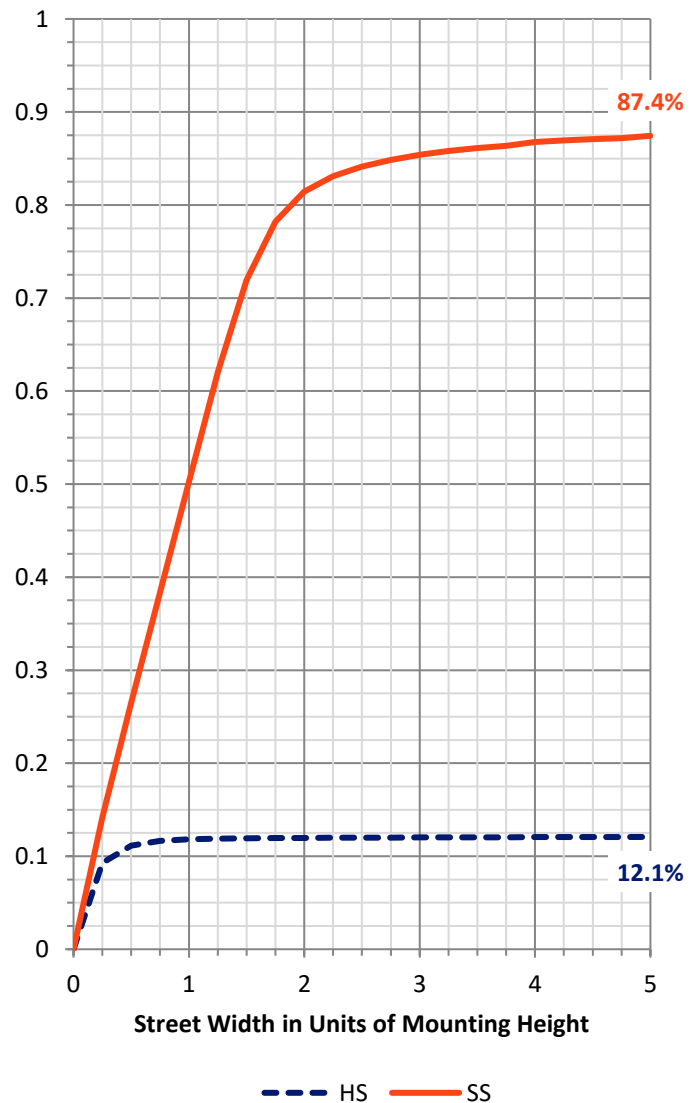
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	216.5	0.0	216.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	1558.5	0.0	1558.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	1775.0	0.0	1775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	2.0
10°-20°	76.3	4.3
20°-30°	107.8	6.1
30°-40°	154.4	8.7
40°-50°	233.0	13.1
50°-60°	373.5	21.0
60°-70°	441.5	24.9
70°-80°	322.5	18.2
80°-90°	29.8	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°	1775.0	100.0
0°-180°	1775.0	100.0

Coefficient of Utilization



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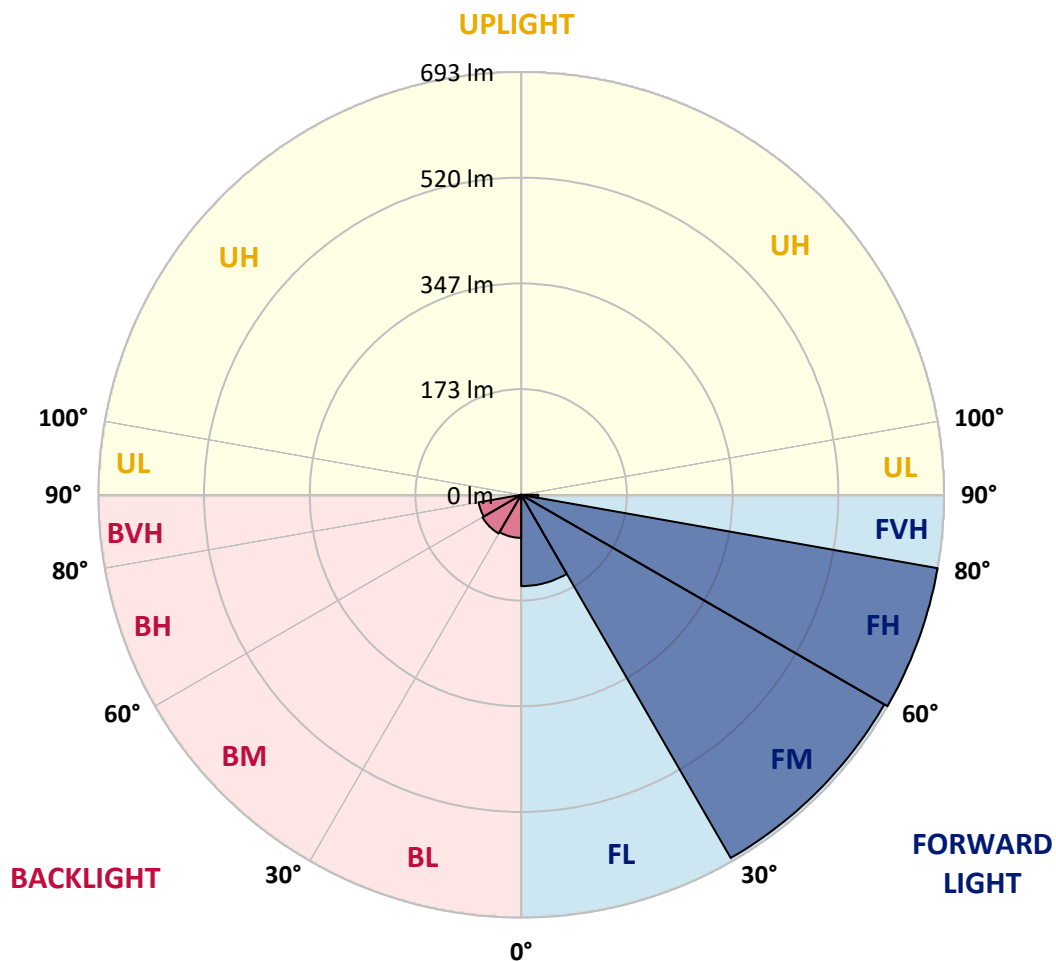
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.7	8.4			
FM (30°-60°)	687.5	38.7			
FH (60°-80°)	693.3	39.1			G1/1800
FVH (80°-90°)	28.0	1.6			G1/100
BL (0°-30°)	70.6	4.0	B0/110		
BM (30°-60°)	73.3	4.1	B0/220		
BH (60°-80°)	70.7	4.0	B0/110		G0/110
BVH (80°-90°)	1.9	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°	65°	67.5°	75°	85°
0°	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7
2.5°	411.3	413.3	413.3	416.2	417.2	418.1	424.0	426.0	425.0	430.8	434.8
5°	383.9	383.9	385.9	390.8	394.7	397.6	404.5	410.3	411.3	418.1	428.9
7.5°	361.5	363.4	363.4	366.4	372.2	377.1	385.9	395.7	397.6	406.4	419.1
10°	343.9	342.9	345.8	348.8	353.7	358.5	368.3	379.1	383.0	392.7	407.4
12.5°	327.3	328.3	329.2	334.1	340.0	344.9	354.6	367.3	371.2	383.9	401.5
15°	317.5	317.5	318.5	321.4	327.3	334.1	345.8	359.5	364.4	379.1	399.6
17.5°	314.6	314.6	313.6	314.6	319.5	326.3	340.0	356.6	361.5	377.1	402.5
20°	315.6	315.6	313.6	312.6	315.6	322.4	338.0	355.6	361.5	380.0	410.3
22.5°	321.4	320.4	318.5	315.6	315.6	322.4	339.0	357.6	363.4	383.9	417.2
25°	336.1	332.2	330.2	324.4	320.4	323.4	340.0	360.5	366.4	386.9	426.9
27.5°	349.8	348.8	348.8	342.9	330.2	327.3	343.9	365.4	370.3	390.8	439.6
30°	373.2	371.2	371.2	364.4	348.8	335.1	347.8	369.3	375.2	393.7	452.3
32.5°	402.5	403.5	401.5	392.7	373.2	349.8	354.6	374.2	379.1	395.7	465.0
35°	434.8	435.7	440.6	430.8	405.4	372.2	365.4	383.0	385.9	399.6	474.8
37.5°	461.1	461.1	473.8	475.8	444.5	399.6	383.0	397.6	396.6	404.5	484.6
40°	490.4	490.4	505.1	516.8	494.3	436.7	405.4	415.2	413.3	415.2	498.3
42.5°	521.7	523.7	539.3	559.8	548.1	484.6	437.7	442.6	438.7	432.8	512.9
45°	552.0	556.9	578.4	605.7	604.7	541.2	479.7	480.7	473.8	462.1	543.2
47.5°	587.2	591.1	621.4	655.5	664.3	605.7	533.4	529.5	520.7	502.2	584.2
50°	646.8	648.7	670.2	710.3	726.9	677.0	594.0	587.2	577.4	553.9	639.9
52.5°	718.1	717.1	726.9	768.9	813.8	760.1	673.1	663.4	647.7	617.4	708.3
55°	749.3	752.3	766.9	817.7	904.7	881.2	762.0	748.4	731.7	692.7	778.6
57.5°	694.6	694.6	723.9	804.0	955.5	1041.4	861.7	840.2	819.7	769.9	858.8
60°	555.9	554.9	590.1	686.8	917.4	1181.2	1000.4	935.9	904.7	838.2	938.9
62.5°	389.8	382.0	397.6	478.7	751.3	1183.1	1259.3	1035.6	993.6	908.6	1023.9
65°	279.4	274.5	277.5	299.9	430.8	1069.8	1545.6	1187.0	1111.8	982.8	1126.4
67.5°	228.6	222.7	221.8	249.1	248.1	708.3	1631.5	1486.0	1321.8	1091.3	1242.7
70°	182.7	179.8	178.8	217.9	229.6	230.6	1521.1	2124.9	1833.8	1252.5	1398.0
72.5°	129.9	129.9	137.8	180.7	222.7	202.2	951.6	2247.0	2283.2	1458.6	1496.7
75°	78.2	77.2	96.7	143.6	214.9	195.4	294.1	1854.3	1887.5	1365.8	1157.7
77.5°	37.1	37.1	53.7	96.7	190.5	183.7	168.0	1108.9	1116.7	829.4	587.2
80°	14.7	14.7	23.4	59.6	144.6	181.7	156.3	457.2	440.6	228.6	81.1
82.5°	5.9	5.9	9.8	33.2	89.9	149.5	138.7	151.4	113.3	26.4	21.5
85°	1.0	2.0	3.9	19.5	50.8	79.1	112.4	93.8	59.6	15.6	15.6
87.5°	0.0	1.0	2.0	5.9	14.7	33.2	56.7	43.0	27.4	4.9	6.8
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°	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7	438.7
2.5°	435.7	437.7	441.6	443.5	444.5	440.6	440.6	436.7	435.7	435.7	435.7
5°	430.8	434.8	437.7	430.8	420.1	406.4	390.8	381.0	371.2	373.2	369.3
7.5°	425.0	429.9	426.0	403.5	376.1	350.7	323.4	307.7	289.2	287.2	282.3
10°	416.2	421.1	406.4	367.3	325.3	288.2	248.1	223.7	204.2	188.6	184.6
12.5°	414.2	417.2	383.0	329.2	274.5	221.8	170.0	124.1	96.7	83.0	83.0
15°	415.2	415.2	361.5	291.1	219.8	146.5	82.1	59.6	49.8	48.8	47.9
17.5°	420.1	414.2	340.0	254.0	161.2	76.2	48.8	44.9	43.0	43.0	43.0
20°	428.9	414.2	321.4	214.9	101.6	47.9	42.0	40.1	39.1	38.1	38.1
22.5°	437.7	410.3	298.0	170.0	58.6	40.1	37.1	36.1	34.2	33.2	33.2
25°	447.5	406.4	275.5	122.1	41.0	35.2	32.2	30.3	28.3	27.4	27.4
27.5°	456.2	402.5	249.1	77.2	36.1	31.3	28.3	25.4	22.5	21.5	21.5
30°	462.1	395.7	223.7	48.8	32.2	28.3	24.4	20.5	17.6	16.6	16.6
32.5°	463.1	386.9	192.5	36.1	29.3	24.4	19.5	16.6	14.7	13.7	13.7
35°	460.2	376.1	158.3	32.2	26.4	21.5	16.6	13.7	11.7	11.7	11.7
37.5°	456.2	365.4	123.1	29.3	23.4	18.6	13.7	11.7	10.7	9.8	9.8
40°	455.3	354.6	82.1	27.4	21.5	15.6	11.7	9.8	8.8	7.8	7.8
42.5°	458.2	346.8	57.6	25.4	18.6	13.7	10.7	8.8	6.8	6.8	5.9
45°	472.9	344.9	42.0	23.4	16.6	11.7	8.8	6.8	5.9	4.9	4.9
47.5°	497.3	348.8	34.2	21.5	14.7	9.8	7.8	5.9	4.9	3.9	3.9
50°	532.4	363.4	31.3	19.5	11.7	8.8	5.9	4.9	3.9	3.9	3.9
52.5°	587.2	386.9	29.3	17.6	9.8	6.8	4.9	3.9	2.9	2.9	2.9
55°	645.8	414.2	28.3	15.6	8.8	5.9	3.9	2.9	2.9	2.0	2.0
57.5°	713.2	450.4	26.4	13.7	7.8	5.9	3.9	2.9	2.0	2.0	2.0
60°	798.2	499.2	23.4	11.7	6.8	4.9	2.9	2.0	2.0	2.0	2.0
62.5°	886.1	550.0	20.5	9.8	5.9	3.9	2.9	2.0	2.0	2.0	2.0
65°	993.6	608.7	17.6	7.8	4.9	3.9	2.9	2.0	2.0	1.0	1.0
67.5°	1123.5	668.2	13.7	6.8	4.9	2.9	2.9	2.0	2.0	1.0	1.0
70°	1289.6	744.4	11.7	5.9	3.9	2.9	2.9	2.0	2.0	1.0	1.0
72.5°	1315.0	642.8	9.8	5.9	3.9	2.9	2.9	2.0	2.0	1.0	1.0
75°	898.8	306.8	8.8	4.9	3.9	3.9	2.9	2.0	2.0	1.0	1.0
77.5°	391.8	72.3	7.8	4.9	3.9	3.9	3.9	2.9	2.0	1.0	1.0
80°	45.9	13.7	6.8	4.9	3.9	4.9	3.9	2.9	2.0	1.0	1.0
82.5°	18.6	8.8	6.8	5.9	4.9	3.9	3.9	2.9	2.0	1.0	1.0
85°	13.7	6.8	6.8	6.8	4.9	2.9	2.9	2.0	2.0	1.0	1.0
87.5°	6.8	2.9	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
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)