

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: P459804

Luminaire Tested: **GWC-SA2A-AMB-U-SL3-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459804
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-SA2A-AMB-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH 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: 1821 lumens
Efficiency: N/A
Efficacy: 43.7 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

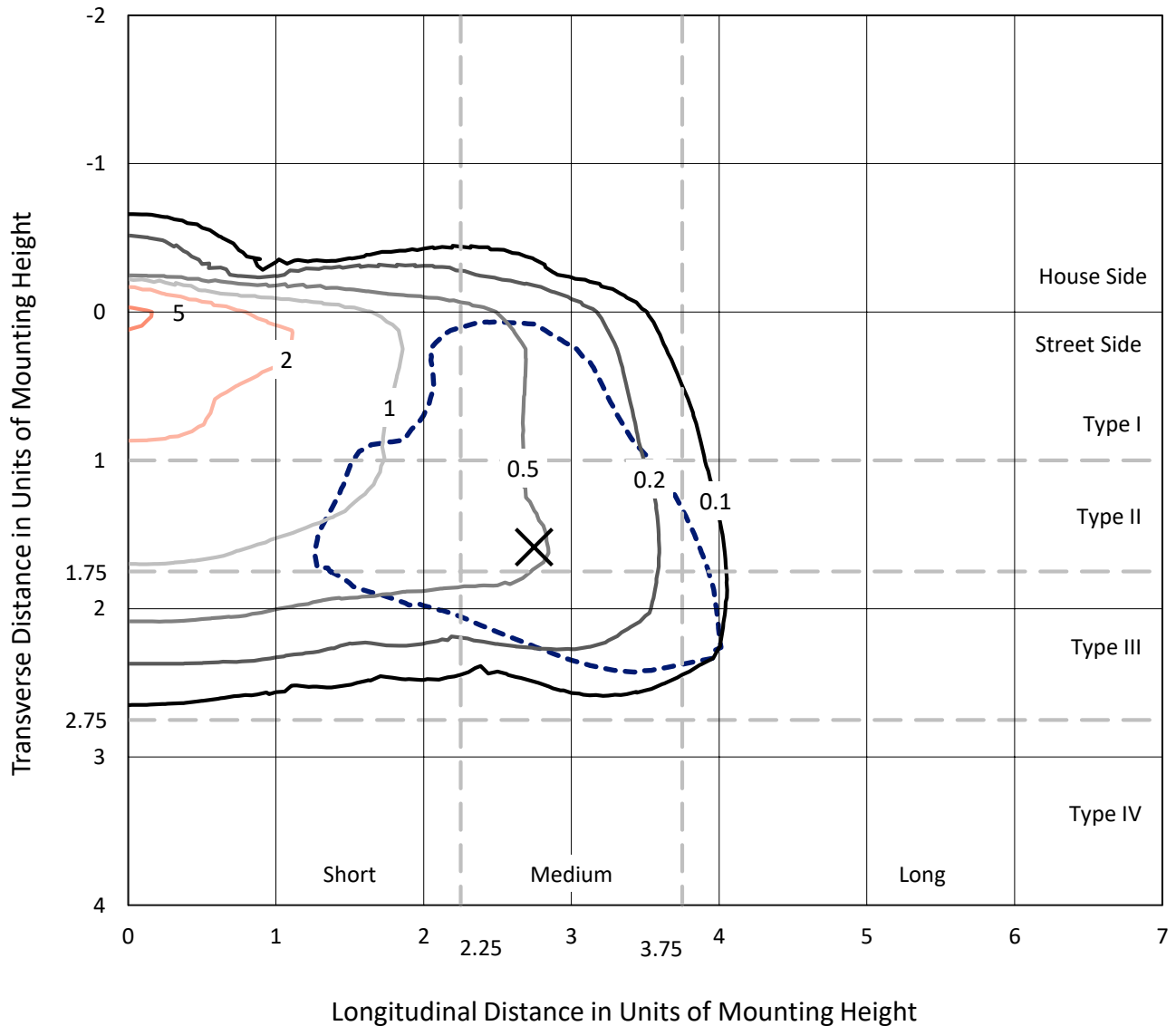
Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

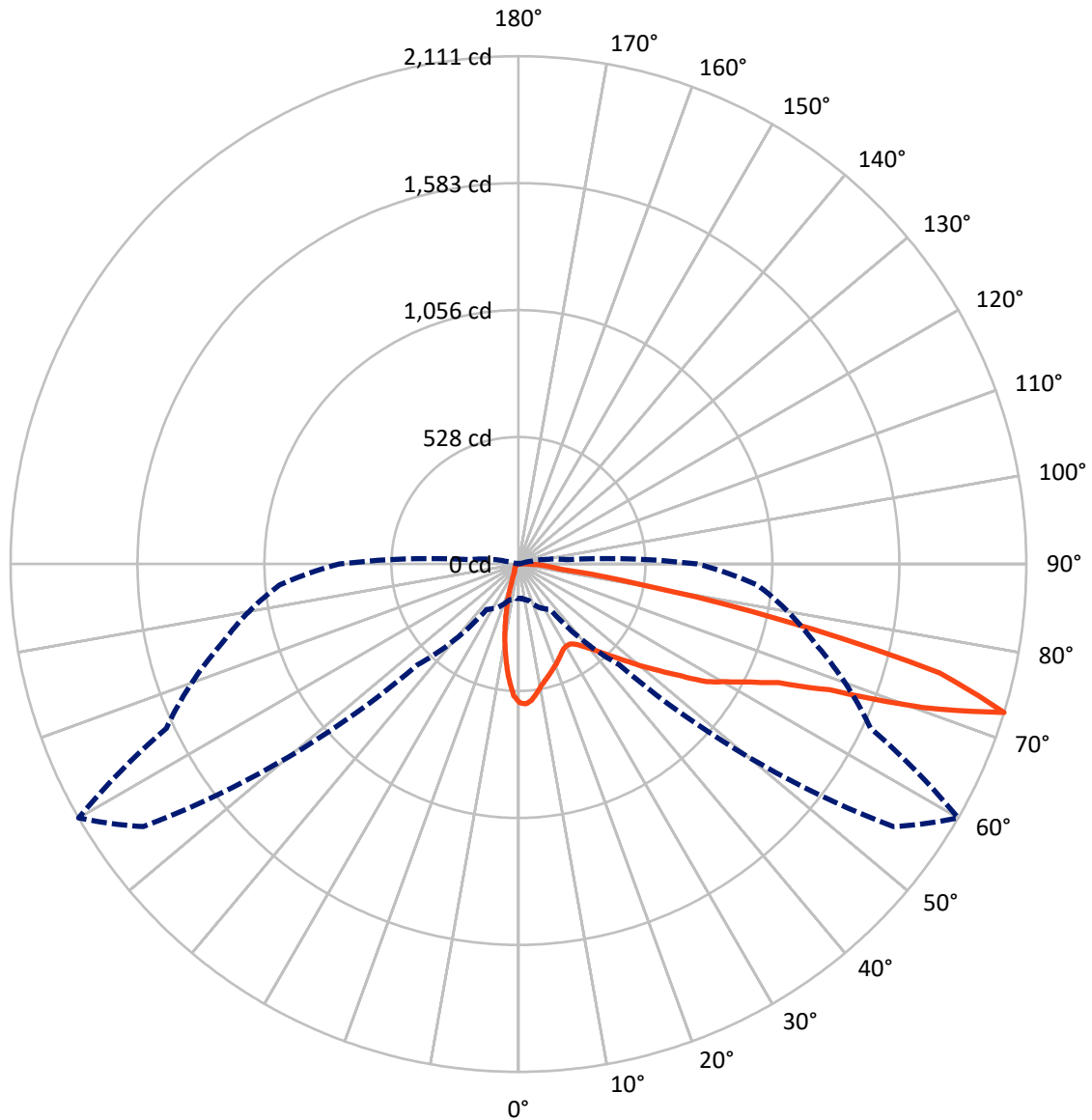


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - Non-Cutoff

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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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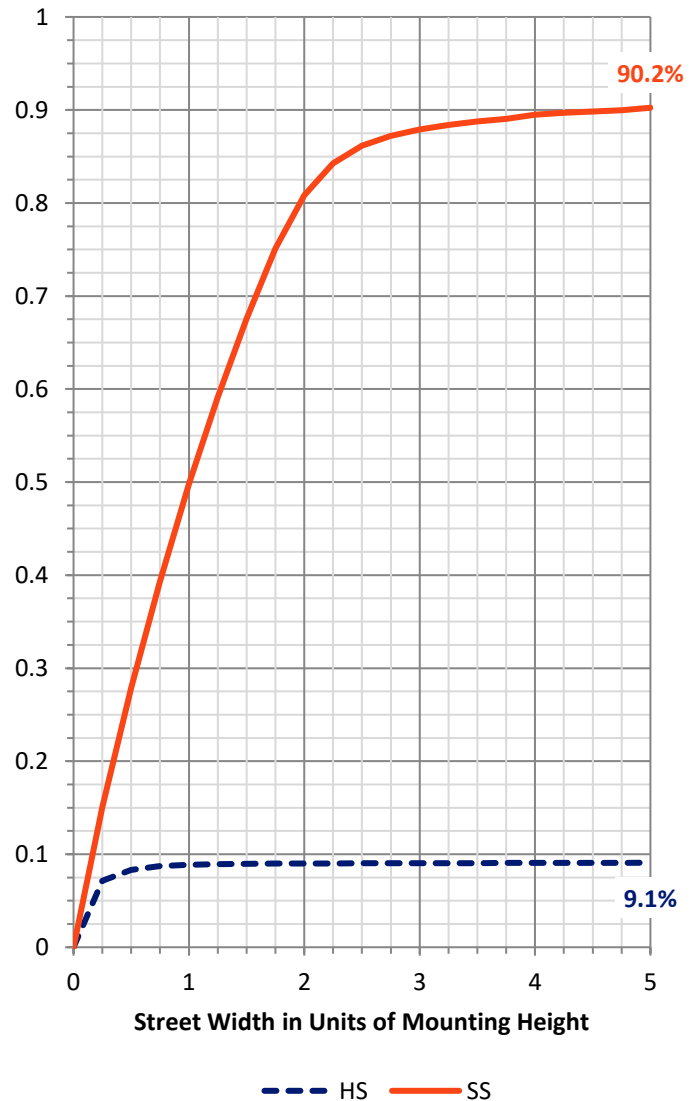
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.2	0.0	167.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	1653.8	0.0	1653.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	1821.0	0.0	1821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	2.5
10°-20°	87.5	4.8
20°-30°	114.8	6.3
30°-40°	154.9	8.5
40°-50°	230.5	12.7
50°-60°	357.7	19.6
60°-70°	490.6	26.9
70°-80°	309.3	17.0
80°-90°	31.0	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°	1821.0	100.0
0°-180°	1821.0	100.0

Coefficient of Utilization



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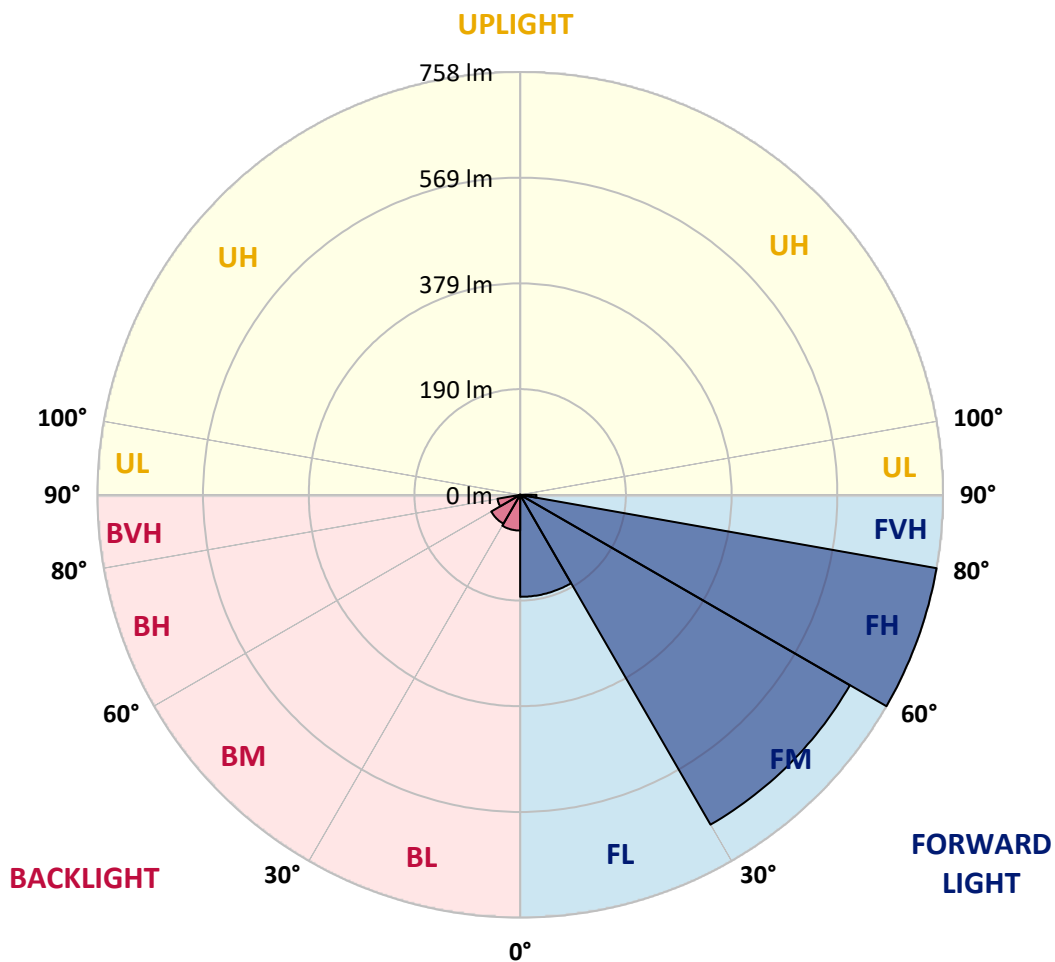
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.0	10.0			
FM	(30°-60°)	683.1	37.5			
FH	(60°-80°)	758.5	41.7			G1/1800
FVH	(80°-90°)	29.3	1.6			G1/100
BL	(0°-30°)	64.1	3.5	B0/110		
BM	(30°-60°)	60.0	3.3	B0/220		
BH	(60°-80°)	41.4	2.3	B0/110		G0/110
BVH	(80°-90°)	1.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9
2.5°	585.7	584.7	584.7	585.7	586.7	583.7	583.7	582.7	579.8	578.8	572.9
5°	548.4	551.3	551.3	555.3	559.2	561.1	569.0	569.0	568.0	568.0	559.2
7.5°	503.3	503.3	510.1	517.0	526.8	529.8	538.6	542.5	544.5	549.4	541.5
10°	463.0	466.0	467.0	476.8	485.6	496.4	511.1	516.0	520.9	530.7	522.9
12.5°	432.6	434.6	437.5	446.4	457.2	468.9	486.6	495.4	500.3	514.1	508.2
15°	401.2	403.2	409.1	416.9	431.7	446.4	466.0	477.8	486.6	502.3	497.4
17.5°	380.6	381.6	382.6	389.5	404.2	423.8	448.3	460.1	471.9	491.5	489.5
20°	370.8	371.8	370.8	374.8	383.6	400.3	429.7	445.4	458.1	486.6	483.6
22.5°	367.9	368.9	366.9	365.9	369.8	384.6	411.1	428.7	446.4	485.6	481.7
25°	369.8	369.8	366.9	364.0	364.0	371.8	394.4	413.0	434.6	487.6	479.7
27.5°	377.7	376.7	373.8	367.9	363.0	365.9	383.6	400.3	423.8	490.5	479.7
30°	387.5	386.5	385.5	380.6	371.8	365.9	378.7	394.4	417.9	497.4	480.7
32.5°	398.3	399.3	399.3	395.4	385.5	372.8	381.6	396.3	418.9	507.2	483.6
35°	417.9	416.0	418.9	416.9	406.1	389.5	396.3	409.1	428.7	518.0	490.5
37.5°	436.6	436.6	440.5	441.5	431.7	411.1	419.9	432.6	444.4	535.6	503.3
40°	458.1	457.2	463.0	468.9	461.1	443.4	452.3	463.0	473.8	562.1	524.9
42.5°	475.8	477.8	486.6	496.4	499.3	474.8	489.5	501.3	506.2	591.6	557.2
45°	492.5	495.4	512.1	527.8	537.6	518.0	534.7	547.4	552.3	628.8	596.5
47.5°	510.1	514.1	534.7	559.2	576.8	567.0	585.7	601.4	604.3	674.9	655.3
50°	528.8	532.7	556.2	589.6	619.0	624.9	648.5	667.1	664.2	721.1	715.2
52.5°	552.3	557.2	589.6	626.9	667.1	684.8	721.1	737.7	728.9	780.9	770.1
55°	614.1	616.1	638.7	676.9	718.1	753.4	806.4	821.1	798.6	825.0	826.0
57.5°	719.1	719.1	724.0	735.8	774.0	826.0	910.4	923.1	881.0	870.2	875.1
60°	781.9	791.7	812.3	834.9	852.5	904.5	992.8	992.8	933.0	917.3	919.2
62.5°	766.2	774.0	834.9	885.9	965.3	1032.0	1082.1	1080.1	991.8	961.4	975.1
65°	561.1	574.9	653.4	813.3	1009.5	1208.6	1231.2	1188.0	1064.4	1028.1	1084.0
67.5°	301.2	312.0	377.7	520.9	796.6	1329.3	1537.3	1396.0	1194.9	1164.5	1194.9
70°	198.2	196.2	201.1	256.0	435.6	1101.7	1947.3	1786.5	1411.7	1273.4	1195.9
72.5°	143.2	143.2	156.0	198.2	230.5	591.6	1903.2	2111.2	1614.8	1276.3	996.7
75°	96.1	98.1	118.7	159.9	214.8	194.2	1480.4	1809.0	1587.3	958.5	519.9
77.5°	50.0	53.0	78.5	126.6	197.2	173.6	829.0	1120.3	933.0	440.5	115.8
80°	22.6	23.5	34.3	95.2	180.5	160.9	270.8	499.3	295.3	53.0	19.6
82.5°	10.8	10.8	14.7	47.1	149.1	138.3	166.8	177.6	69.7	16.7	13.7
85°	3.9	3.9	7.8	26.5	88.3	83.4	142.2	118.7	39.2	10.8	9.8
87.5°	2.0	2.0	2.9	7.8	23.5	67.7	98.1	78.5	16.7	3.9	3.9
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°	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9
2.5°	570.0	567.0	559.2	552.3	543.5	531.7	529.8	518.0	508.2	507.2	504.2
5°	554.3	545.5	525.8	497.4	470.9	449.3	425.8	411.1	403.2	394.4	400.3
7.5°	532.7	518.0	478.7	434.6	391.4	354.2	317.9	291.4	280.6	264.9	267.8
10°	510.1	489.5	432.6	365.9	310.0	255.1	208.0	168.7	148.1	141.3	141.3
12.5°	494.4	465.0	385.5	302.2	228.6	157.9	114.8	83.4	62.8	55.9	55.9
15°	478.7	442.4	342.4	241.3	151.1	91.2	54.9	47.1	46.1	46.1	46.1
17.5°	465.0	416.0	297.3	184.4	99.1	51.0	45.1	44.1	43.2	43.2	43.2
20°	451.3	392.4	259.0	132.4	54.9	43.2	41.2	41.2	41.2	41.2	40.2
22.5°	438.5	371.8	217.8	91.2	42.2	39.2	38.3	38.3	38.3	37.3	37.3
25°	428.7	353.2	180.5	57.9	37.3	36.3	35.3	34.3	33.4	33.4	33.4
27.5°	418.9	335.5	141.3	40.2	34.3	32.4	31.4	30.4	28.4	28.4	27.5
30°	412.0	317.9	112.8	34.3	31.4	29.4	27.5	25.5	23.5	22.6	22.6
32.5°	408.1	304.1	84.4	31.4	28.4	25.5	23.5	21.6	19.6	17.7	17.7
35°	405.2	290.4	57.9	28.4	25.5	22.6	20.6	17.7	14.7	13.7	13.7
37.5°	410.1	280.6	39.2	26.5	23.5	20.6	16.7	14.7	12.8	11.8	11.8
40°	420.9	272.7	31.4	24.5	21.6	17.7	14.7	11.8	9.8	8.8	8.8
42.5°	439.5	269.8	27.5	23.5	19.6	15.7	11.8	9.8	8.8	7.8	7.8
45°	473.8	268.8	25.5	21.6	17.7	12.8	9.8	7.8	6.9	5.9	5.9
47.5°	512.1	270.8	24.5	20.6	15.7	11.8	8.8	6.9	5.9	4.9	4.9
50°	559.2	278.6	22.6	18.6	14.7	9.8	6.9	5.9	3.9	3.9	3.9
52.5°	604.3	286.5	21.6	17.7	12.8	8.8	5.9	3.9	3.9	2.9	2.9
55°	648.5	304.1	19.6	17.7	11.8	6.9	4.9	3.9	2.9	2.0	2.0
57.5°	692.6	316.9	18.6	15.7	9.8	5.9	3.9	2.9	2.0	2.0	2.0
60°	737.7	328.6	16.7	13.7	7.8	4.9	2.9	2.0	2.0	2.0	2.0
62.5°	794.6	348.3	14.7	11.8	6.9	3.9	2.9	2.0	1.0	1.0	1.0
65°	901.6	381.6	12.8	9.8	4.9	3.9	2.9	2.0	1.0	1.0	1.0
67.5°	970.2	376.7	10.8	7.8	4.9	2.9	2.0	2.0	1.0	1.0	1.0
70°	956.5	340.4	8.8	6.9	3.9	2.9	2.0	2.0	1.0	1.0	1.0
72.5°	743.6	207.0	7.8	5.9	3.9	2.9	2.0	2.0	1.0	1.0	1.0
75°	339.4	46.1	6.9	4.9	2.9	2.9	2.0	2.0	1.0	1.0	1.0
77.5°	59.8	11.8	5.9	3.9	3.9	2.9	2.9	2.0	1.0	1.0	1.0
80°	15.7	7.8	5.9	3.9	3.9	4.9	3.9	2.9	1.0	1.0	1.0
82.5°	10.8	5.9	5.9	4.9	4.9	5.9	4.9	2.9	1.0	1.0	1.0
85°	7.8	4.9	5.9	5.9	3.9	4.9	4.9	2.9	1.0	1.0	1.0
87.5°	3.9	2.0	2.0	2.0	2.0	2.9	2.9	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)