

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: P459806

Luminaire Tested: **GWC-SA2A-AMB-U-SL4-HSS**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)
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-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1838 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

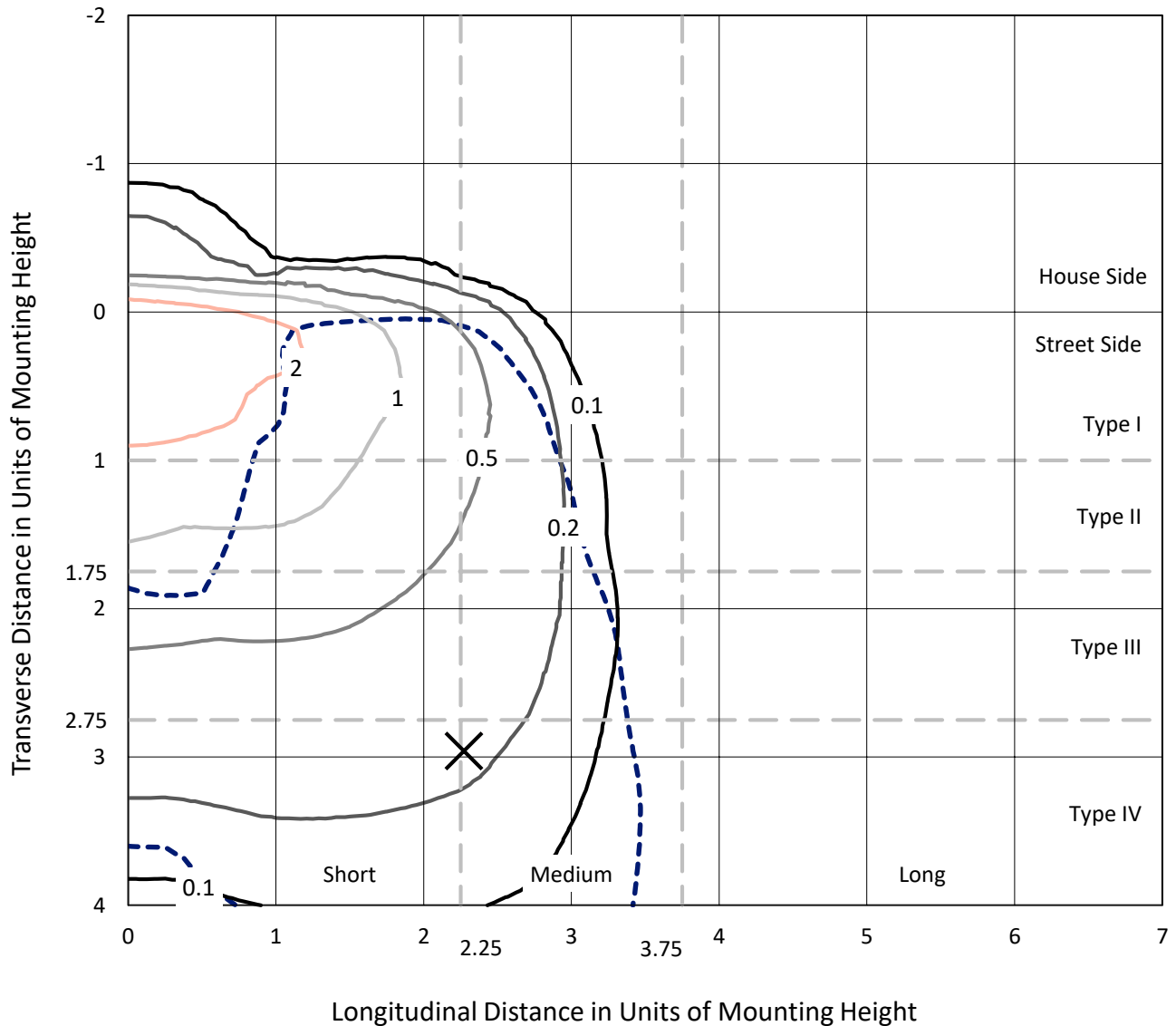
Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

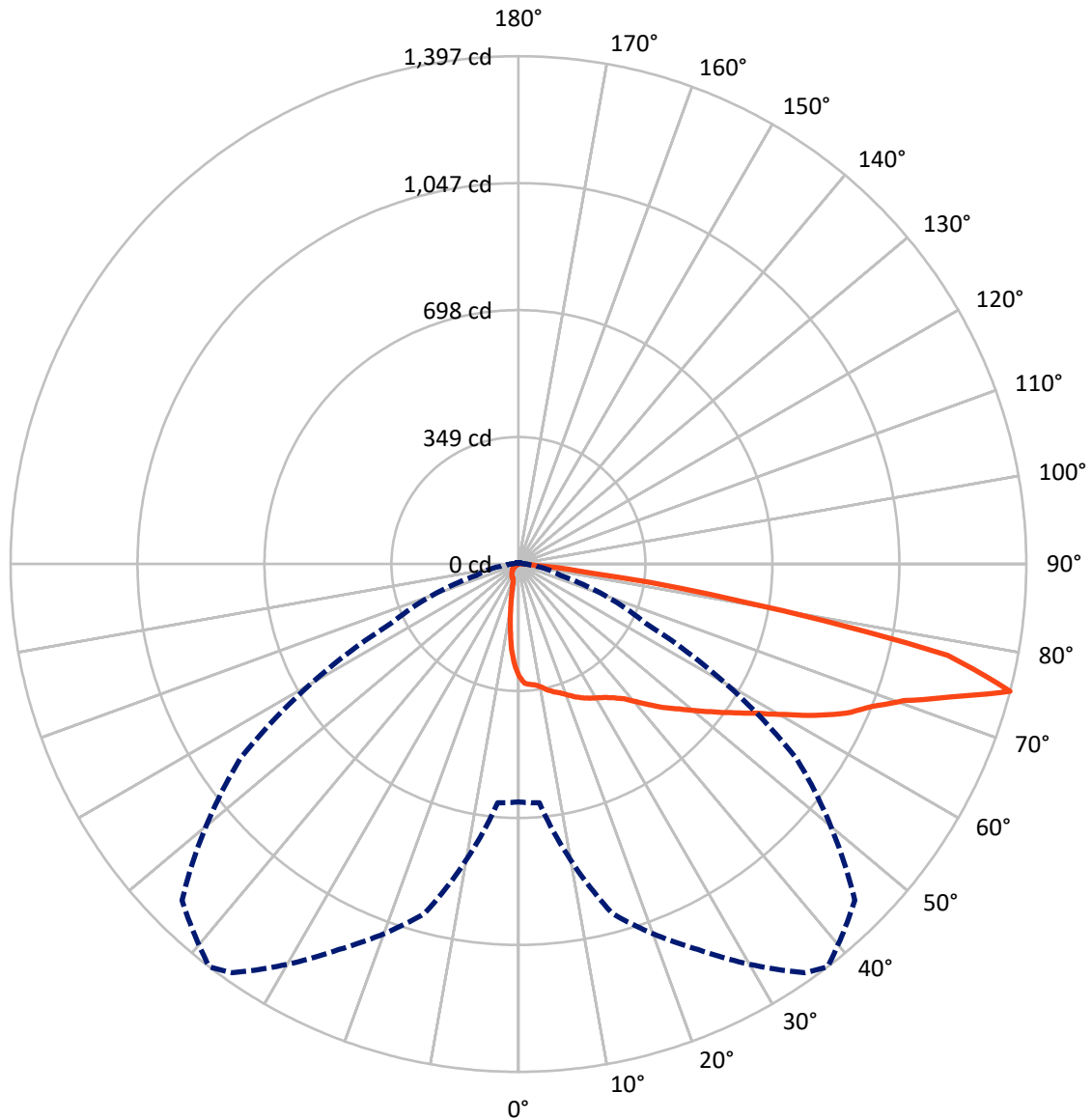
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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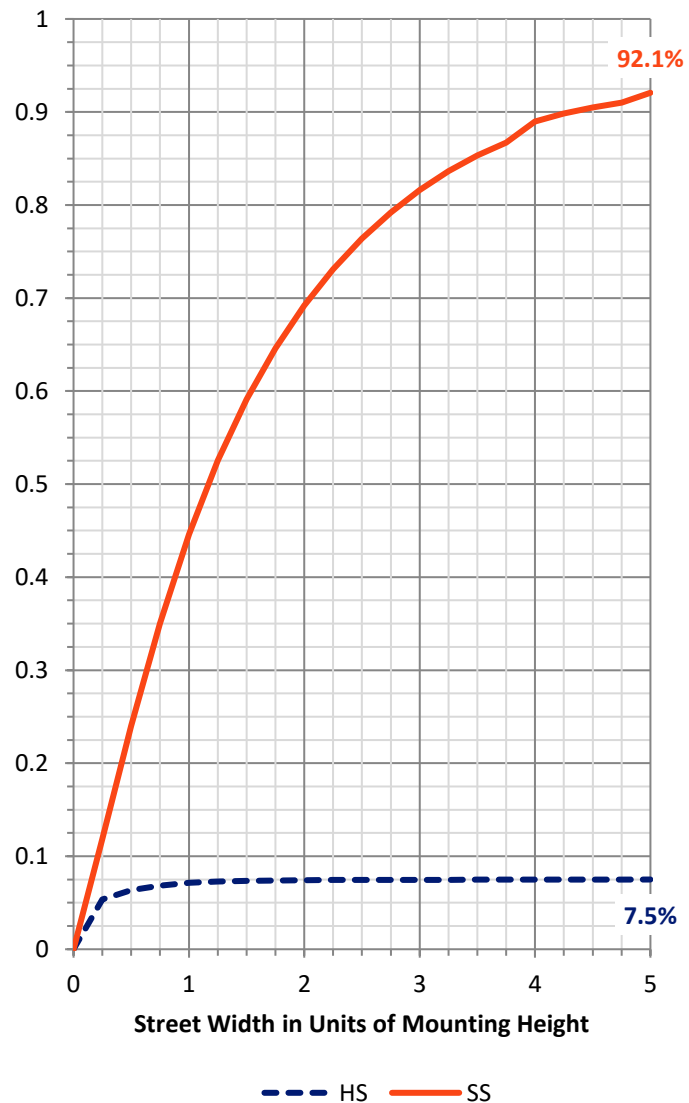
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	138.9	0.0	138.9
	% Fixture	7.6	0.0	7.6
Street Side	Lumens	1699.1	0.0	1699.1
	% Fixture	92.4	0.0	92.4
Total	Lumens	1838.0	0.0	1838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	1.4
10°-20°	66.4	3.6
20°-30°	108.6	5.9
30°-40°	161.4	8.8
40°-50°	241.7	13.1
50°-60°	347.3	18.9
60°-70°	465.4	25.3
70°-80°	377.0	20.5
80°-90°	44.1	2.4
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°	1838.0	100.0
0°-180°	1838.0	100.0



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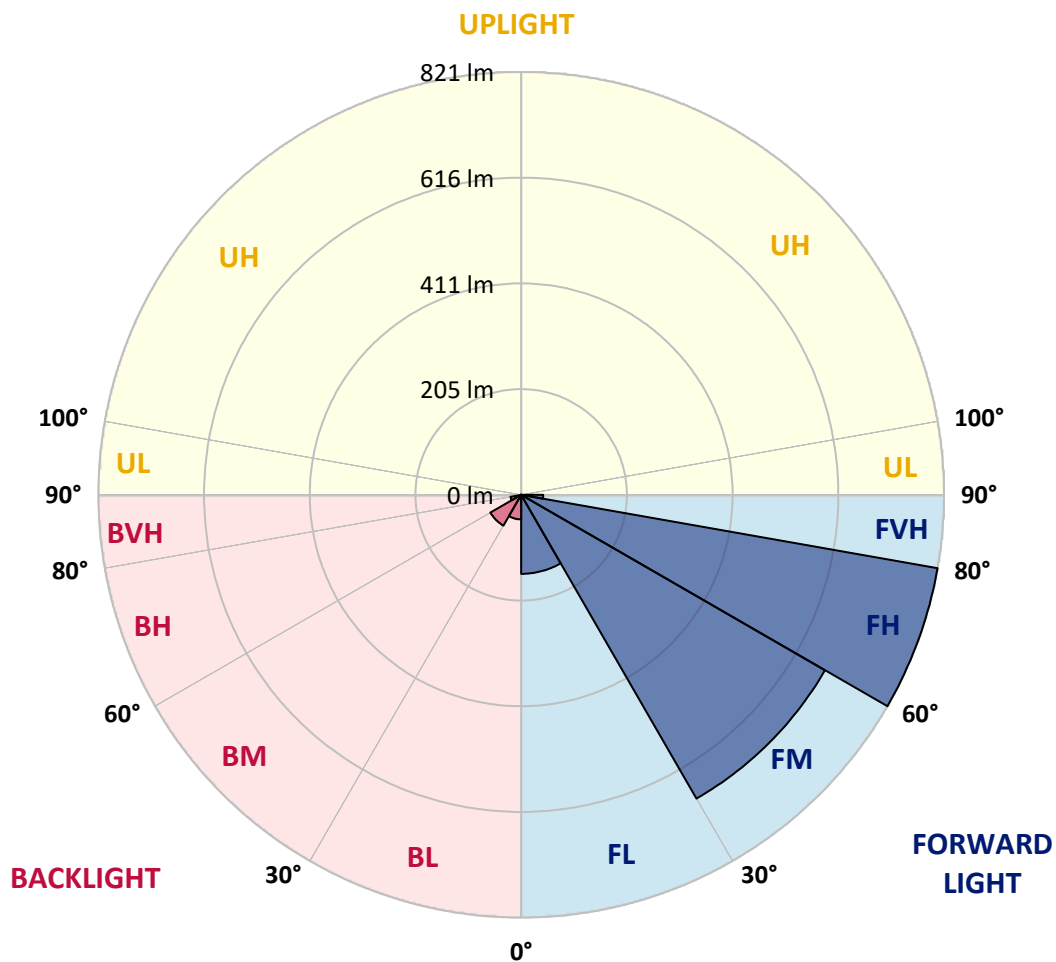
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.5	8.4			
FM (30°-60°)	681.4	37.1			
FH (60°-80°)	821.4	44.7			G1/1800
FVH (80°-90°)	42.8	2.3			G1/100
BL (0°-30°)	47.7	2.6	B0/110		
BM (30°-60°)	69.0	3.8	B0/220		
BH (60°-80°)	21.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.2	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1
2.5°	332.7	331.7	331.7	329.6	328.6	328.6	324.5	323.5	319.3	315.2	310.1
5°	333.7	333.7	332.7	333.7	332.7	332.7	330.6	329.6	325.5	317.3	308.1
7.5°	339.9	338.9	337.8	337.8	335.8	335.8	330.6	328.6	324.5	319.3	306.0
10°	339.9	339.9	341.9	344.0	344.0	344.0	338.9	332.7	326.5	321.4	306.0
12.5°	338.9	338.9	341.9	349.1	354.3	355.3	352.2	344.0	333.7	324.5	310.1
15°	337.8	338.9	343.0	353.2	362.5	364.5	363.5	357.3	344.0	330.6	315.2
17.5°	339.9	341.9	347.1	361.4	371.7	372.7	373.8	369.7	355.3	338.9	323.5
20°	343.0	344.0	355.3	372.7	383.0	384.0	383.0	376.8	364.5	349.1	332.7
22.5°	348.1	350.2	364.5	384.0	395.3	396.4	393.3	383.0	369.7	357.3	343.0
25°	358.4	360.4	377.9	397.4	405.6	407.7	404.6	392.3	374.8	366.6	354.3
27.5°	370.7	373.8	392.3	410.7	415.9	417.9	414.8	400.5	382.0	378.9	368.6
30°	389.2	391.2	408.7	424.1	426.1	427.2	425.1	408.7	392.3	392.3	383.0
32.5°	411.8	414.8	426.1	437.4	436.4	437.4	436.4	418.9	404.6	412.8	400.5
35°	438.5	435.4	448.7	453.9	449.8	451.8	452.8	435.4	423.1	439.5	424.1
37.5°	459.0	459.0	466.2	471.3	468.2	470.3	473.4	456.9	448.7	477.5	460.0
40°	476.5	476.5	481.6	491.9	492.9	497.0	503.2	483.6	483.6	521.6	502.1
42.5°	489.8	491.9	496.0	509.3	522.7	529.8	536.0	516.5	525.7	578.1	557.6
45°	503.2	505.2	507.3	526.8	553.5	563.7	576.1	557.6	574.0	637.7	615.1
47.5°	519.6	519.6	518.6	549.4	582.2	595.6	617.1	601.7	631.5	710.6	675.7
50°	540.1	538.1	528.8	573.0	617.1	633.6	666.4	651.0	696.2	786.6	720.8
52.5°	563.7	558.6	544.2	597.6	655.1	675.7	717.8	707.5	764.0	847.1	746.5
55°	593.5	585.3	565.8	627.4	701.3	721.9	771.2	777.3	828.7	882.1	773.2
57.5°	631.5	616.1	594.5	664.4	754.7	774.2	831.7	845.1	871.8	915.9	807.1
60°	669.5	653.1	633.6	714.7	813.3	840.0	896.4	901.6	906.7	963.2	844.1
62.5°	703.4	694.1	682.8	771.2	893.3	917.0	951.9	944.7	950.9	1018.6	873.8
65°	746.5	737.3	735.2	835.8	969.3	989.9	994.0	997.1	1019.6	1073.0	889.2
67.5°	783.5	780.4	798.9	912.9	1038.1	1046.3	1061.8	1079.2	1091.5	1097.7	786.6
70°	835.8	830.7	871.8	989.9	1106.9	1124.4	1178.8	1196.3	1111.0	899.5	481.6
72.5°	841.0	850.2	962.1	1070.0	1209.6	1247.6	1315.4	1221.9	863.6	482.6	149.9
75°	654.1	659.2	994.0	1169.6	1371.9	1396.5	1308.2	934.4	386.1	119.1	33.9
77.5°	364.5	384.0	664.4	1085.4	1246.6	1207.6	894.4	412.8	99.6	26.7	17.5
80°	267.0	276.2	320.4	621.2	705.4	620.2	372.7	157.1	54.4	18.5	12.3
82.5°	79.1	85.2	165.3	200.2	249.5	198.2	111.9	120.1	34.9	13.3	10.3
85°	21.6	22.6	56.5	79.1	71.9	46.2	41.1	103.7	14.4	9.2	8.2
87.5°	10.3	10.3	17.5	34.9	29.8	24.6	33.9	60.6	3.1	3.1	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°	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1
2.5°	307.0	305.0	296.8	292.6	288.5	281.4	277.2	274.2	273.1	271.1	272.1
5°	301.9	294.7	281.4	270.1	256.7	242.3	234.1	224.9	215.6	213.6	212.6
7.5°	297.8	287.5	267.0	245.4	222.8	198.2	175.6	161.2	146.8	144.8	143.8
10°	295.7	281.4	251.6	219.7	182.8	148.9	124.2	107.8	97.5	92.4	90.4
12.5°	295.7	278.3	239.3	194.1	146.8	109.9	85.2	68.8	61.6	58.5	57.5
15°	297.8	276.2	224.9	164.3	115.0	78.0	59.6	51.3	48.3	47.2	48.3
17.5°	302.9	276.2	211.5	138.6	87.3	57.5	47.2	46.2	45.2	45.2	45.2
20°	310.1	278.3	197.2	116.0	64.7	47.2	44.2	44.2	44.2	44.2	44.2
22.5°	318.3	279.3	180.7	94.5	52.4	43.1	42.1	42.1	42.1	42.1	42.1
25°	326.5	281.4	163.3	73.9	43.1	41.1	40.0	41.1	41.1	41.1	41.1
27.5°	336.8	283.4	145.8	58.5	40.0	39.0	39.0	39.0	39.0	39.0	39.0
30°	346.0	283.4	129.4	48.3	38.0	37.0	37.0	37.0	37.0	37.0	37.0
32.5°	357.3	282.4	111.9	40.0	35.9	34.9	33.9	34.9	34.9	34.9	33.9
35°	373.8	282.4	92.4	37.0	33.9	32.9	31.8	31.8	31.8	31.8	31.8
37.5°	395.3	286.5	72.9	33.9	30.8	29.8	29.8	29.8	28.8	28.8	28.8
40°	427.2	293.7	58.5	31.8	28.8	27.7	26.7	26.7	25.7	24.6	24.6
42.5°	465.2	301.9	48.3	29.8	26.7	25.7	24.6	23.6	22.6	21.6	21.6
45°	503.2	308.1	38.0	27.7	24.6	23.6	22.6	21.6	19.5	18.5	17.5
47.5°	543.2	308.1	30.8	25.7	23.6	21.6	20.5	18.5	16.4	14.4	14.4
50°	566.8	296.8	27.7	23.6	21.6	19.5	18.5	15.4	13.3	11.3	11.3
52.5°	580.2	281.4	25.7	21.6	20.5	18.5	15.4	13.3	10.3	8.2	8.2
55°	591.5	274.2	23.6	20.5	18.5	16.4	13.3	10.3	7.2	6.2	6.2
57.5°	605.8	262.9	21.6	18.5	16.4	14.4	11.3	8.2	5.1	4.1	4.1
60°	618.2	247.5	19.5	17.5	15.4	12.3	9.2	6.2	3.1	2.1	2.1
62.5°	624.3	223.9	17.5	15.4	13.3	10.3	7.2	4.1	2.1	1.0	1.0
65°	606.9	187.9	16.4	13.3	11.3	8.2	5.1	2.1	1.0	0.0	0.0
67.5°	496.0	121.2	13.3	11.3	9.2	6.2	4.1	2.1	1.0	0.0	0.0
70°	254.7	51.3	11.3	9.2	8.2	5.1	3.1	1.0	0.0	0.0	0.0
72.5°	66.7	18.5	9.2	8.2	7.2	5.1	2.1	1.0	0.0	0.0	0.0
75°	20.5	12.3	7.2	6.2	6.2	4.1	2.1	1.0	0.0	0.0	0.0
77.5°	14.4	9.2	6.2	5.1	5.1	4.1	2.1	1.0	0.0	0.0	0.0
80°	11.3	8.2	5.1	4.1	5.1	5.1	2.1	1.0	0.0	0.0	0.0
82.5°	9.2	7.2	4.1	4.1	5.1	5.1	3.1	1.0	0.0	0.0	0.0
85°	7.2	5.1	4.1	4.1	5.1	4.1	2.1	1.0	0.0	0.0	0.0
87.5°	2.1	2.1	1.0	1.0	1.0	2.1	2.1	1.0	0.0	0.0	0.0
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)