

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: P534575

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

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY 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: 1833 lumens
Efficiency: N/A
Efficacy: 44.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

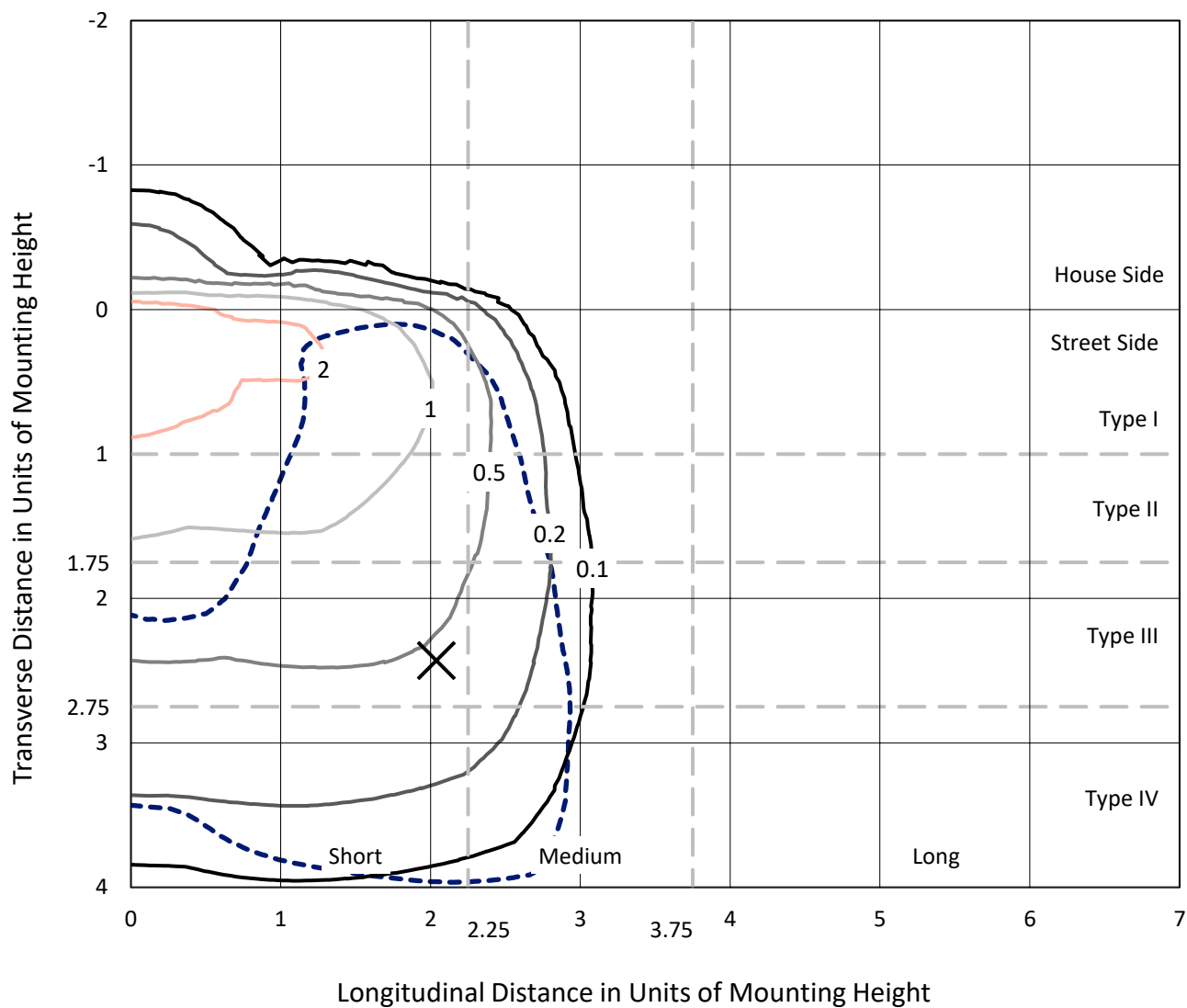
Input Watts (W): 41.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

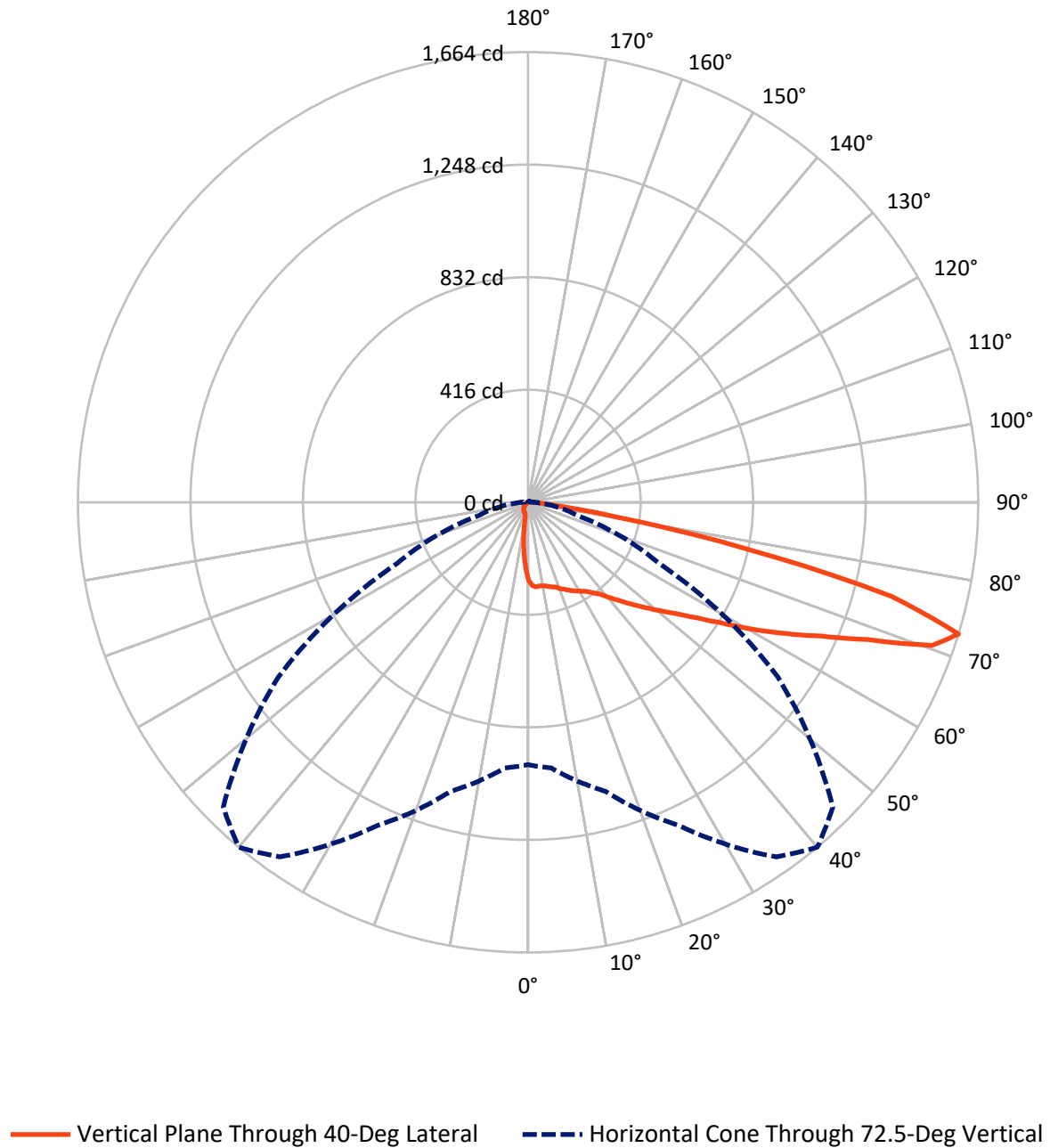
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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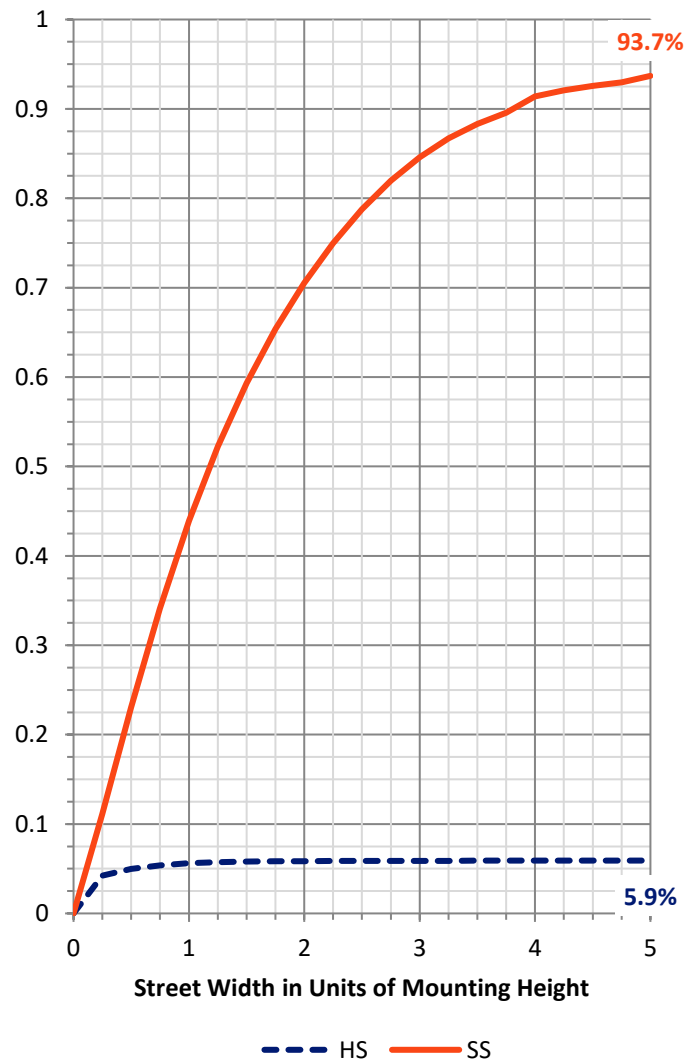
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	109.0	0.0	109.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	1724.0	0.0	1724.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	1833.0	0.0	1833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	1.3
10°-20°	57.7	3.1
20°-30°	95.6	5.2
30°-40°	146.3	8.0
40°-50°	233.6	12.7
50°-60°	365.3	19.9
60°-70°	524.3	28.6
70°-80°	353.0	19.3
80°-90°	34.2	1.9
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°	1833.0	100.0
0°-180°	1833.0	100.0

Coefficient of Utilization



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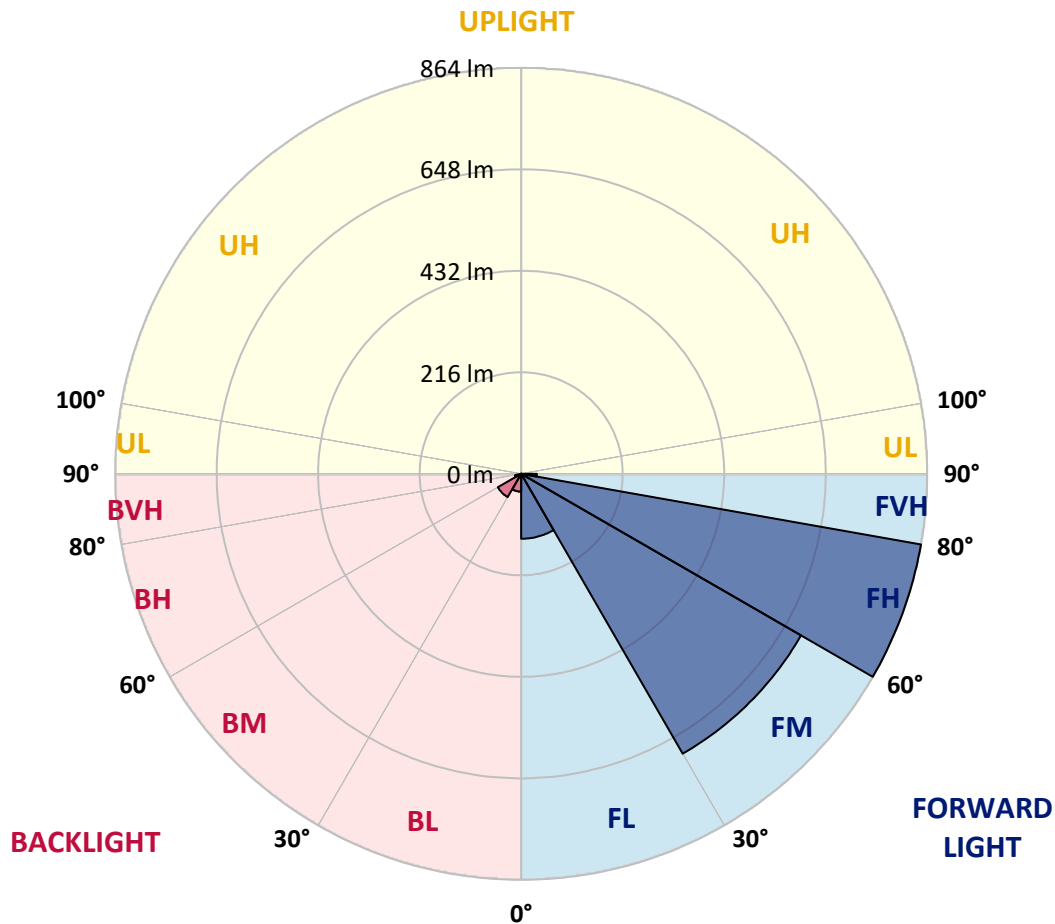
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.3	7.5			
FM	(30°-60°)	687.9	37.5			
FH	(60°-80°)	864.3	47.2			G1/1800
FVH	(80°-90°)	33.5	1.8			G1/100
BL	(0°-30°)	38.0	2.1	B0/110		
BM	(30°-60°)	57.2	3.1	B0/220		
BH	(60°-80°)	13.0	0.7	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	318.0	316.0	312.0	311.0	311.0	308.0	308.0	304.0	300.0	294.0	287.0
5°	321.0	320.0	319.0	320.0	316.0	314.0	311.0	306.0	299.0	293.0	284.0
7.5°	321.0	321.0	319.0	316.0	316.0	312.0	311.0	305.0	299.0	292.0	281.0
10°	314.0	314.0	315.0	316.0	317.0	314.0	313.0	304.0	300.0	296.0	283.0
12.5°	307.0	306.0	312.0	316.0	319.0	318.0	315.0	312.0	304.0	295.0	284.0
15°	305.0	305.0	311.0	320.0	324.0	325.0	322.0	317.0	308.0	300.0	287.0
17.5°	306.0	306.0	314.0	325.0	331.0	329.0	330.0	321.0	312.0	305.0	293.0
20°	314.0	312.0	324.0	337.0	342.0	341.0	337.0	327.0	318.0	312.0	299.0
22.5°	320.0	319.0	333.0	346.0	354.0	349.0	346.0	331.0	322.0	319.0	306.0
25°	335.0	336.0	346.0	361.0	364.0	361.0	356.0	337.0	329.0	331.0	312.0
27.5°	351.0	353.0	364.0	374.0	374.0	371.0	366.0	346.0	339.0	341.0	323.0
30°	372.0	369.0	380.0	386.0	385.0	381.0	377.0	356.0	353.0	360.0	336.0
32.5°	397.0	394.0	400.0	402.0	395.0	392.0	391.0	371.0	368.0	383.0	352.0
35°	424.0	418.0	420.0	417.0	412.0	410.0	405.0	388.0	392.0	412.0	377.0
37.5°	443.9	441.9	441.9	432.9	430.0	430.0	430.0	415.0	424.0	458.9	415.0
40°	465.9	461.9	456.9	450.9	457.9	462.9	462.9	448.9	467.9	513.9	459.9
42.5°	482.9	480.9	473.9	471.9	488.9	497.9	500.9	488.9	519.9	586.9	522.9
45°	502.9	497.9	486.9	496.9	521.9	536.9	541.9	539.9	584.9	667.9	593.9
47.5°	517.9	516.9	502.9	521.9	556.9	580.9	593.9	592.9	654.9	767.9	669.9
50°	544.9	538.9	522.9	556.9	594.9	628.9	646.9	658.9	746.9	863.9	734.9
52.5°	570.9	565.9	544.9	594.9	641.9	682.9	710.9	750.9	843.9	945.9	769.9
55°	607.9	604.9	587.9	640.9	704.9	751.9	786.9	850.9	945.9	1001.9	801.9
57.5°	653.9	641.9	635.9	701.9	784.9	839.9	883.9	957.9	1017.9	1050.9	847.9
60°	704.9	690.9	679.9	770.9	885.9	952.9	1002.9	1052.9	1081.9	1120.9	917.9
62.5°	759.9	747.9	738.9	834.9	990.9	1068.9	1103.9	1127.9	1179.9	1238.9	935.9
65°	834.9	817.9	813.9	927.9	1116.9	1192.9	1216.9	1266.9	1307.8	1273.9	839.9
67.5°	897.9	916.9	933.9	1067.9	1290.9	1352.8	1401.8	1444.8	1343.8	1074.9	535.9
70°	1000.9	1004.9	1063.9	1235.9	1479.8	1584.8	1611.8	1454.8	1037.9	593.9	203.0
72.5°	969.9	985.9	1105.9	1317.8	1599.8	1663.8	1592.8	1126.9	533.9	188.0	53.0
75°	680.9	701.9	960.9	1169.9	1446.8	1387.8	1149.9	575.9	182.0	45.0	22.0
77.5°	337.0	357.0	536.9	752.9	961.9	820.9	571.9	240.0	73.0	24.0	15.0
80°	182.0	190.0	215.0	321.0	426.0	329.0	211.0	142.0	51.0	16.0	11.0
82.5°	99.0	107.0	138.0	125.0	139.0	119.0	105.0	137.0	33.0	12.0	10.0
85°	22.0	24.0	77.0	79.0	73.0	49.0	48.0	132.0	13.0	6.0	6.0
87.5°	0.0	0.0	14.0	30.0	32.0	27.0	33.0	56.0	2.0	2.0	2.0
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°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	284.0	281.0	272.0	263.0	254.0	247.0	239.0	234.0	230.0	229.0	228.0
5°	278.0	270.0	255.0	236.0	216.0	197.0	180.0	167.0	160.0	154.0	153.0
7.5°	275.0	267.0	240.0	210.0	175.0	146.0	119.0	98.0	83.0	79.0	76.0
10°	276.0	263.0	226.0	181.0	134.0	92.0	65.0	52.0	47.0	46.0	46.0
12.5°	274.0	259.0	210.0	151.0	92.0	55.0	45.0	43.0	43.0	43.0	43.0
15°	276.0	256.0	195.0	119.0	60.0	43.0	42.0	41.0	41.0	41.0	42.0
17.5°	281.0	257.0	179.0	89.0	44.0	41.0	40.0	40.0	40.0	40.0	40.0
20°	284.0	256.0	160.0	63.0	41.0	39.0	39.0	38.0	38.0	38.0	39.0
22.5°	286.0	253.0	138.0	46.0	39.0	38.0	37.0	37.0	37.0	37.0	37.0
25°	291.0	250.0	114.0	40.0	37.0	36.0	36.0	36.0	35.0	35.0	35.0
27.5°	296.0	250.0	89.0	38.0	36.0	35.0	34.0	34.0	34.0	34.0	33.0
30°	302.0	246.0	68.0	36.0	34.0	33.0	32.0	32.0	32.0	32.0	32.0
32.5°	310.0	244.0	49.0	34.0	32.0	30.0	30.0	30.0	30.0	30.0	30.0
35°	324.0	242.0	39.0	32.0	29.0	28.0	28.0	28.0	27.0	27.0	27.0
37.5°	347.0	244.0	34.0	29.0	27.0	26.0	25.0	25.0	25.0	24.0	24.0
40°	381.0	250.0	32.0	27.0	25.0	24.0	23.0	23.0	22.0	21.0	21.0
42.5°	419.0	254.0	30.0	25.0	23.0	22.0	21.0	21.0	19.0	18.0	18.0
45°	465.9	255.0	28.0	24.0	21.0	20.0	19.0	18.0	16.0	15.0	15.0
47.5°	520.9	255.0	25.0	21.0	20.0	18.0	18.0	15.0	13.0	12.0	12.0
50°	562.9	246.0	23.0	20.0	18.0	17.0	15.0	13.0	10.0	10.0	9.0
52.5°	582.9	224.0	22.0	18.0	16.0	15.0	13.0	10.0	8.0	7.0	7.0
55°	599.9	200.0	20.0	17.0	15.0	13.0	11.0	8.0	6.0	5.0	5.0
57.5°	623.9	167.0	19.0	15.0	13.0	11.0	9.0	6.0	4.0	3.0	3.0
60°	650.9	128.0	17.0	13.0	12.0	9.0	7.0	4.0	2.0	2.0	2.0
62.5°	620.9	77.0	15.0	12.0	10.0	8.0	5.0	3.0	1.0	1.0	1.0
65°	492.9	43.0	13.0	10.0	9.0	7.0	4.0	2.0	0.0	0.0	0.0
67.5°	276.0	26.0	11.0	9.0	8.0	5.0	3.0	1.0	0.0	0.0	0.0
70°	85.0	18.0	9.0	8.0	7.0	5.0	2.0	1.0	0.0	0.0	0.0
72.5°	23.0	13.0	7.0	6.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0
75°	15.0	9.0	6.0	5.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
77.5°	11.0	8.0	5.0	4.0	4.0	4.0	2.0	1.0	0.0	0.0	0.0
80°	10.0	6.0	4.0	3.0	4.0	5.0	2.0	1.0	0.0	0.0	0.0
82.5°	10.0	6.0	3.0	3.0	4.0	5.0	2.0	1.0	0.0	0.0	0.0
85°	6.0	2.0	1.0	1.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0
87.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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)