

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: P595509

Luminaire Tested: **ISW-PA1A-AMB-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1A-AMB-U-T3-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 962 lumens
Efficiency: N/A
Efficacy: 30.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G0

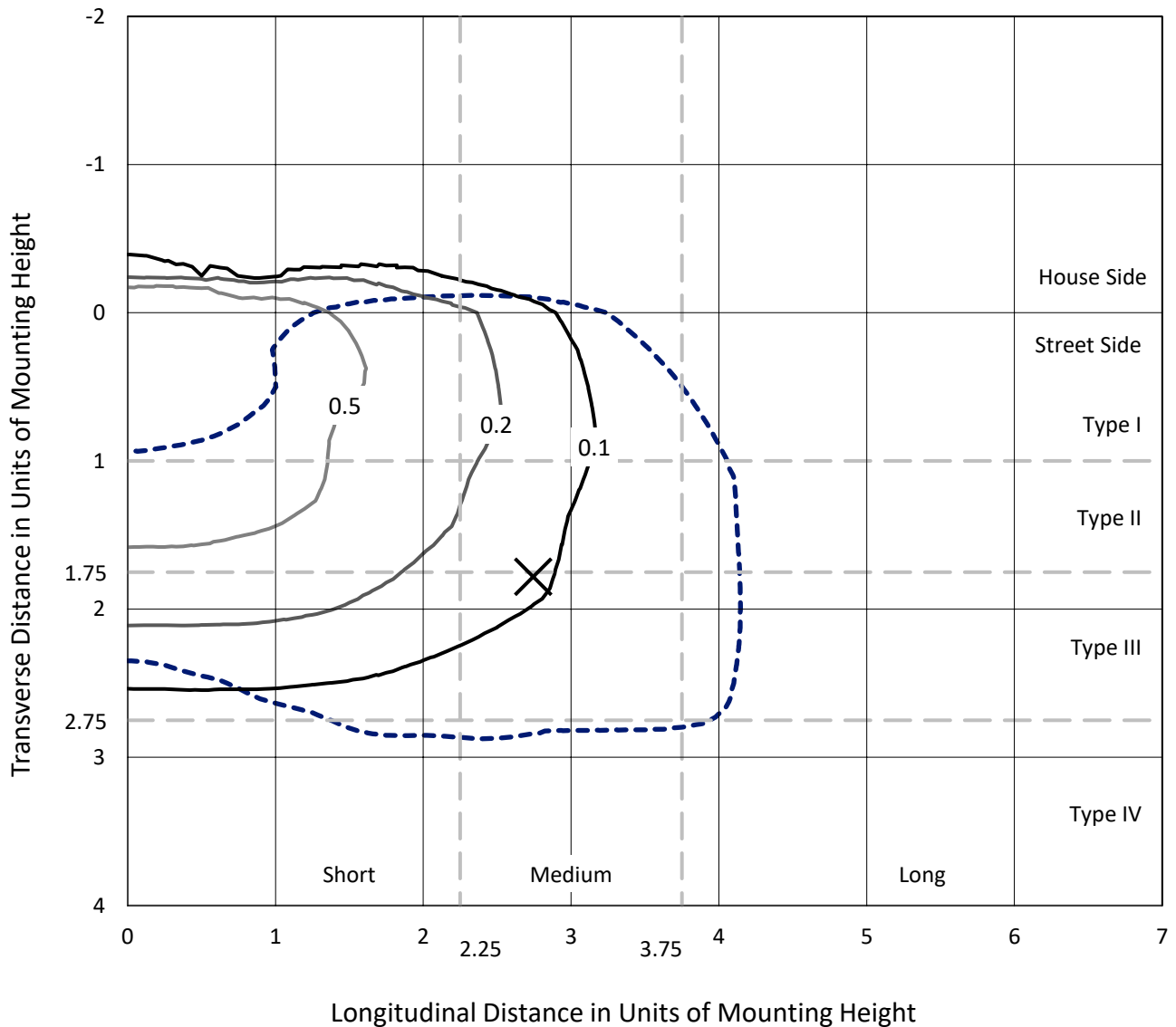
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

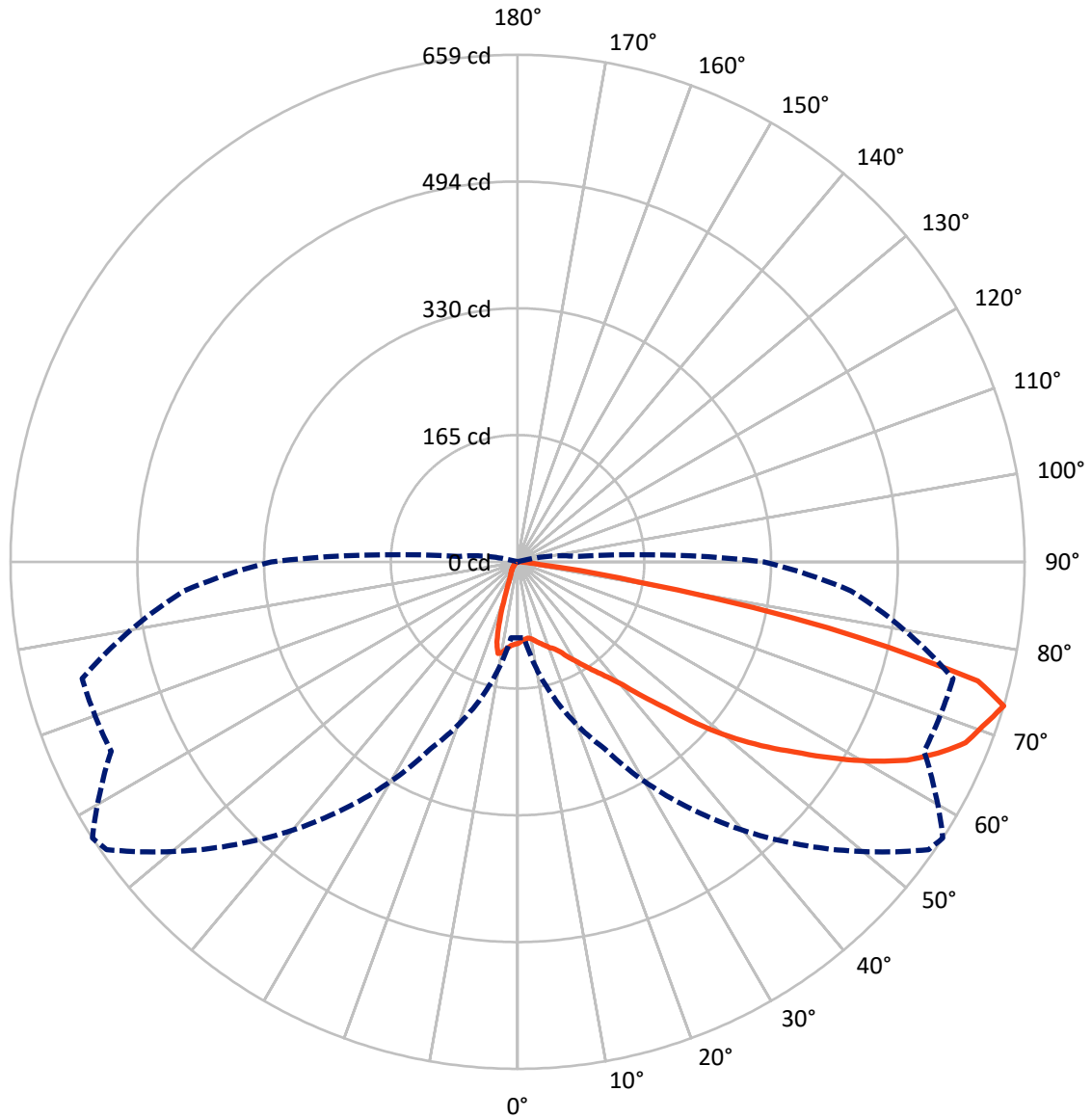
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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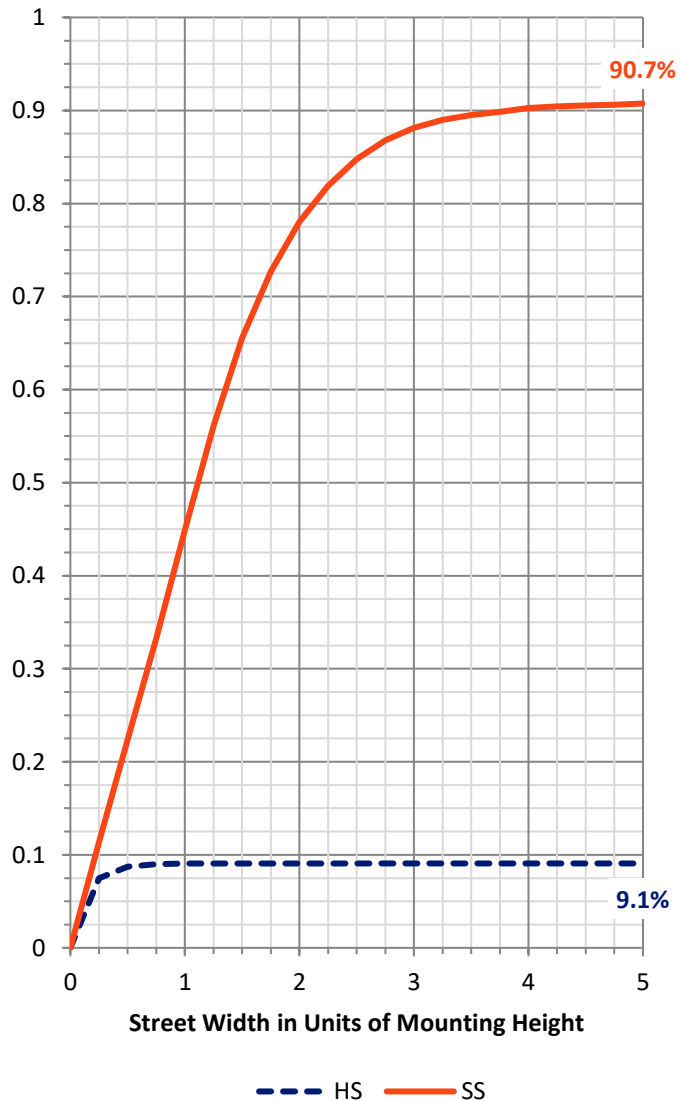
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	87.9	0.0	87.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	874.1	0.0	874.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	962.0	0.0	962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.8	1.0
10°-20°	26.1	2.7
20°-30°	42.6	4.4
30°-40°	72.5	7.5
40°-50°	137.1	14.2
50°-60°	231.6	24.1
60°-70°	272.4	28.3
70°-80°	162.3	16.9
80°-90°	7.6	0.8
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°	962.0	100.0
0°-180°	962.0	100.0

Coefficient of Utilization

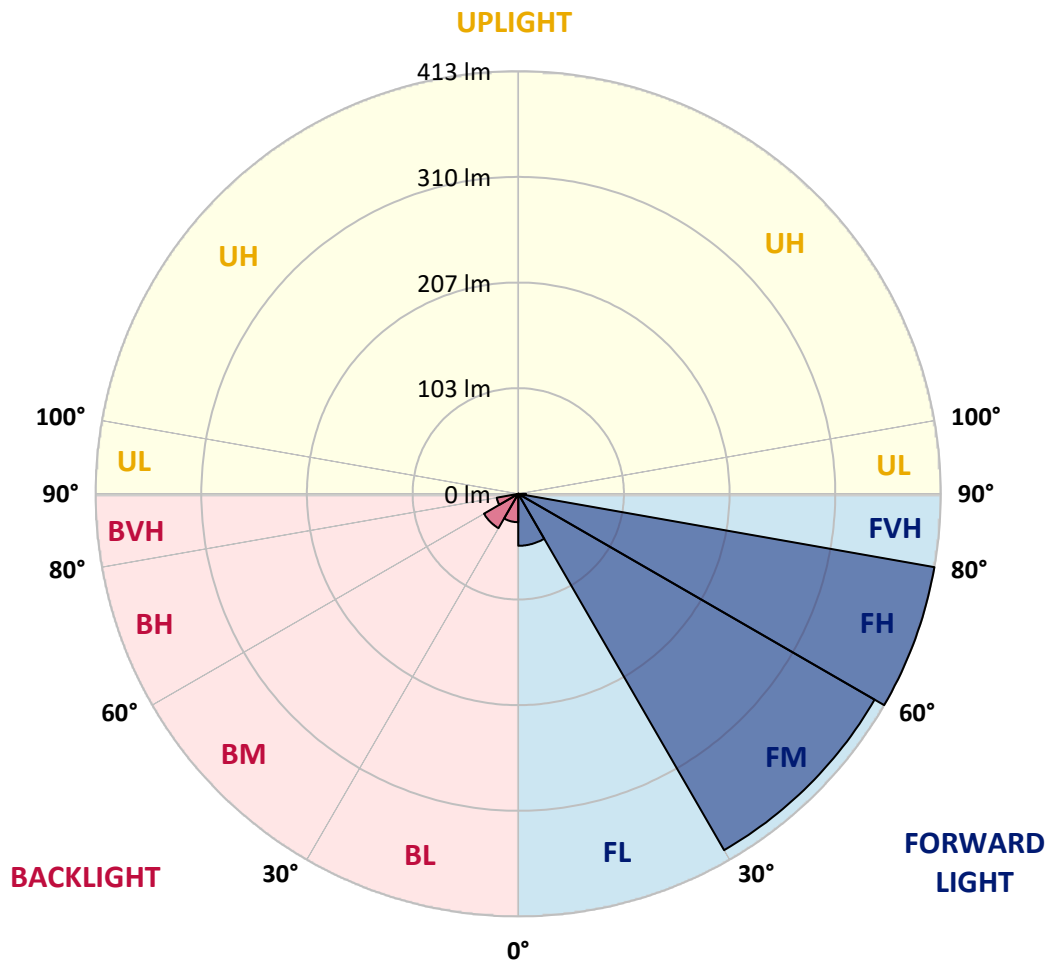


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.8	5.3			
FM (30°-60°)	402.4	41.8			
FH (60°-80°)	413.3	43.0			G0/660
FVH (80°-90°)	7.6	0.8			G0/10
BL (0°-30°)	27.8	2.9	B0/110		
BM (30°-60°)	38.7	4.0	B0/220		
BH (60°-80°)	21.4	2.2	B0/110		G0/110
BVH (80°-90°)	0.1	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-G0
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	98.0	98.0	99.0	99.0	101.0	102.0	103.0	103.0	104.0	106.0	106.0
5°	87.0	87.0	88.0	89.0	92.0	96.0	100.0	101.0	104.0	108.0	109.0
7.5°	84.0	85.0	86.0	87.0	89.0	93.0	98.0	100.0	105.0	111.0	115.0
10°	86.0	87.0	87.0	88.0	91.0	95.0	101.0	102.0	109.0	117.0	122.0
12.5°	89.0	89.0	89.0	91.0	93.0	97.0	104.0	106.0	114.0	125.0	131.0
15°	92.0	91.0	92.0	93.0	96.0	99.0	108.0	110.0	120.0	134.0	141.0
17.5°	94.0	94.0	94.0	96.0	99.0	103.0	112.0	114.0	127.0	142.0	150.0
20°	96.0	96.0	96.0	98.0	102.0	107.0	116.0	119.0	133.0	152.0	159.0
22.5°	100.0	99.0	99.0	101.0	106.0	111.0	121.0	123.0	140.0	162.0	167.0
25°	106.0	106.0	103.0	105.0	109.0	116.0	127.0	130.0	148.0	173.0	175.0
27.5°	120.0	120.0	116.0	113.0	115.0	123.0	136.0	140.0	158.0	185.0	184.0
30°	143.0	143.0	137.0	129.0	124.0	131.0	146.0	150.0	170.0	197.0	192.0
32.5°	175.0	173.0	166.0	154.0	142.0	143.0	158.0	162.0	181.0	210.1	201.1
35°	206.1	202.1	198.0	184.0	169.0	158.0	170.0	175.0	196.0	226.1	212.1
37.5°	237.1	236.1	231.1	217.1	199.1	182.0	186.0	190.0	213.1	244.1	227.1
40°	273.1	272.1	272.1	254.1	232.1	213.1	208.1	210.1	234.1	267.1	245.1
42.5°	311.1	312.1	312.1	295.1	269.1	249.1	238.1	239.1	257.1	294.1	269.1
45°	361.1	363.1	358.1	343.1	316.1	291.1	275.1	272.1	285.1	325.1	294.1
47.5°	420.1	422.1	417.1	397.1	369.1	342.1	320.1	315.1	316.1	363.1	323.1
50°	472.1	476.1	469.1	457.1	432.1	407.1	364.1	357.1	351.1	399.1	353.1
52.5°	501.1	506.1	504.1	510.1	497.1	481.1	408.1	397.1	387.1	440.1	382.1
55°	501.1	500.1	514.1	535.1	552.1	552.1	450.1	436.1	426.1	478.1	409.1
57.5°	474.1	475.1	510.1	540.1	584.1	600.2	498.1	481.1	465.1	516.1	439.1
60°	432.1	436.1	484.1	531.1	596.1	624.2	538.1	526.1	504.1	554.1	467.1
62.5°	400.1	400.1	444.1	513.1	585.1	620.2	579.1	568.1	539.1	586.1	494.1
65°	360.1	361.1	399.1	478.1	562.1	606.2	605.2	600.2	572.1	611.2	517.1
67.5°	317.1	320.1	356.1	431.1	532.1	594.1	623.2	628.2	593.1	629.2	535.1
70°	250.1	256.1	299.1	375.1	489.1	567.1	630.2	641.2	599.2	633.2	543.1
72.5°	121.0	134.0	209.1	290.1	415.1	533.1	647.2	656.2	591.1	602.2	462.1
73°	99.0	99.0	183.0	268.1	391.1	520.1	652.2	659.2	583.1	586.1	435.1
75°	49.0	49.0	84.0	166.0	257.1	409.1	608.2	618.2	513.1	477.1	295.1
77.5°	30.0	30.0	38.0	71.0	106.0	187.0	405.1	413.1	340.1	263.1	116.0
80°	7.0	8.0	10.0	25.0	47.0	48.0	148.0	161.0	137.0	87.0	20.0
82.5°	4.0	4.0	6.0	12.0	31.0	19.0	24.0	30.0	32.0	19.0	5.0
85°	1.0	2.0	3.0	7.0	15.0	8.0	6.0	8.0	9.0	9.0	2.0
87.5°	0.0	0.0	1.0	4.0	4.0	1.0	1.0	2.0	2.0	4.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	107.0	107.0	108.0	108.0	107.0	107.0	107.0	107.0	107.0	106.0	106.0
5°	110.0	111.0	111.0	110.0	109.0	108.0	108.0	107.0	107.0	106.0	106.0
7.5°	116.0	117.0	116.0	115.0	113.0	111.0	109.0	107.0	105.0	104.0	103.0
10°	124.0	125.0	124.0	122.0	119.0	113.0	98.0	82.0	72.0	63.0	62.0
12.5°	133.0	133.0	132.0	129.0	120.0	91.0	60.0	41.0	32.0	29.0	29.0
15°	142.0	142.0	140.0	135.0	101.0	53.0	29.0	23.0	22.0	22.0	22.0
17.5°	151.0	151.0	148.0	129.0	67.0	28.0	21.0	21.0	20.0	20.0	21.0
20°	159.0	158.0	152.0	108.0	36.0	21.0	20.0	20.0	19.0	19.0	19.0
22.5°	166.0	164.0	153.0	77.0	24.0	20.0	19.0	18.0	18.0	17.0	17.0
25°	173.0	169.0	150.0	47.0	20.0	18.0	17.0	16.0	15.0	15.0	15.0
27.5°	180.0	174.0	138.0	28.0	18.0	17.0	16.0	14.0	13.0	12.0	12.0
30°	186.0	178.0	118.0	20.0	17.0	16.0	14.0	11.0	10.0	9.0	9.0
32.5°	193.0	181.0	94.0	17.0	15.0	13.0	11.0	9.0	7.0	7.0	7.0
35°	201.1	186.0	66.0	15.0	13.0	11.0	8.0	6.0	5.0	4.0	4.0
37.5°	211.1	195.0	43.0	13.0	11.0	9.0	6.0	4.0	3.0	3.0	3.0
40°	225.1	206.1	27.0	12.0	10.0	7.0	4.0	3.0	2.0	2.0	2.0
42.5°	244.1	220.1	18.0	11.0	8.0	5.0	3.0	2.0	1.0	1.0	1.0
45°	265.1	236.1	14.0	9.0	6.0	3.0	1.0	1.0	0.0	1.0	1.0
47.5°	289.1	251.1	12.0	8.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0
50°	312.1	261.1	11.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
52.5°	337.1	268.1	10.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
55°	361.1	270.1	9.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	391.1	266.1	8.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	422.1	257.1	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	451.1	244.1	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	481.1	227.1	4.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	488.1	204.1	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	455.1	165.0	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	345.1	103.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73°	320.1	79.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	184.0	23.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	58.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)