

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: P595012

Luminaire Tested: **IST-PA1A-AMB-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-AMB-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 903 lumens
Efficiency: N/A
Efficacy: 28.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
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

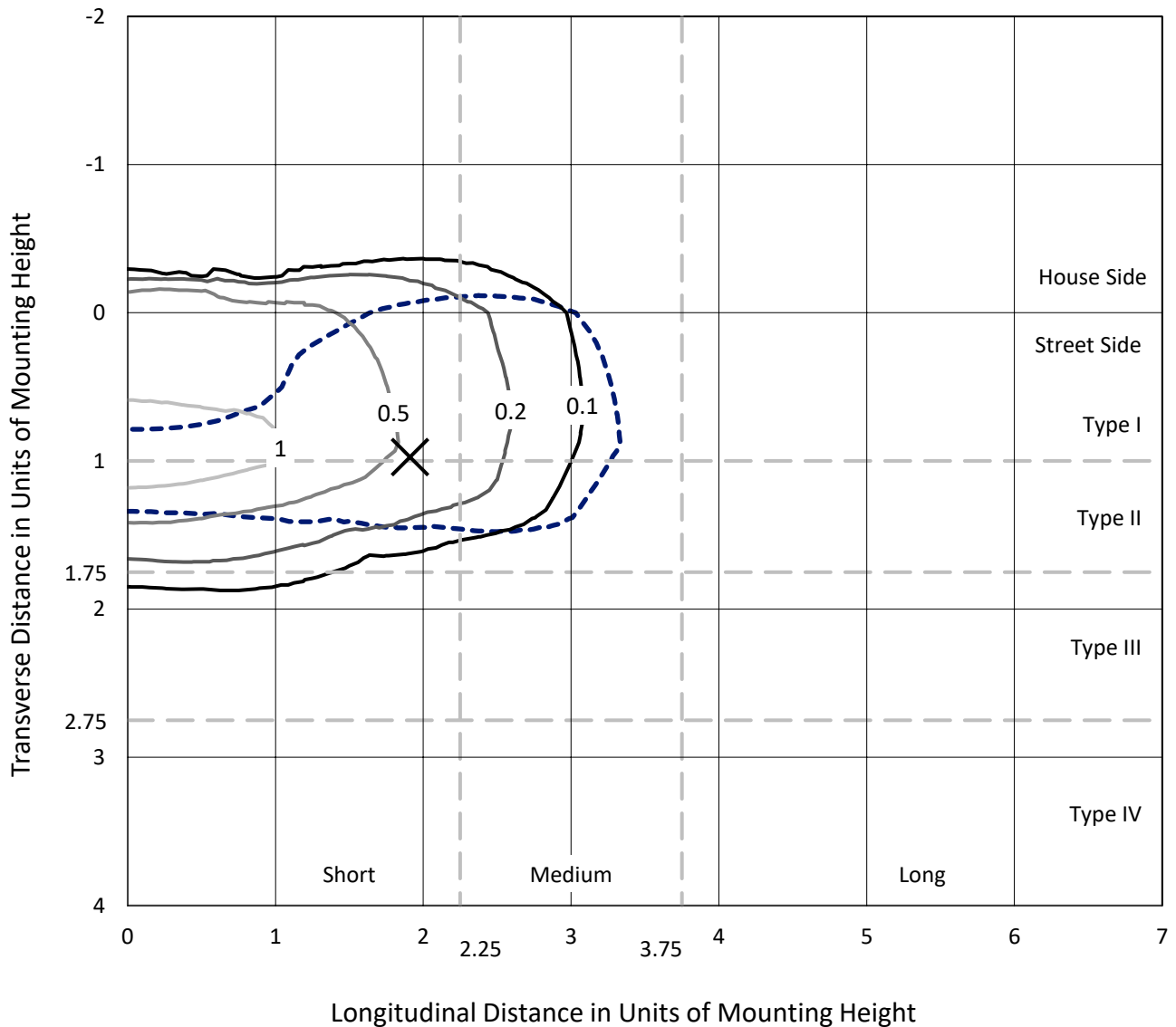




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Iso-Footcandle Lines of Horizontal Illumination

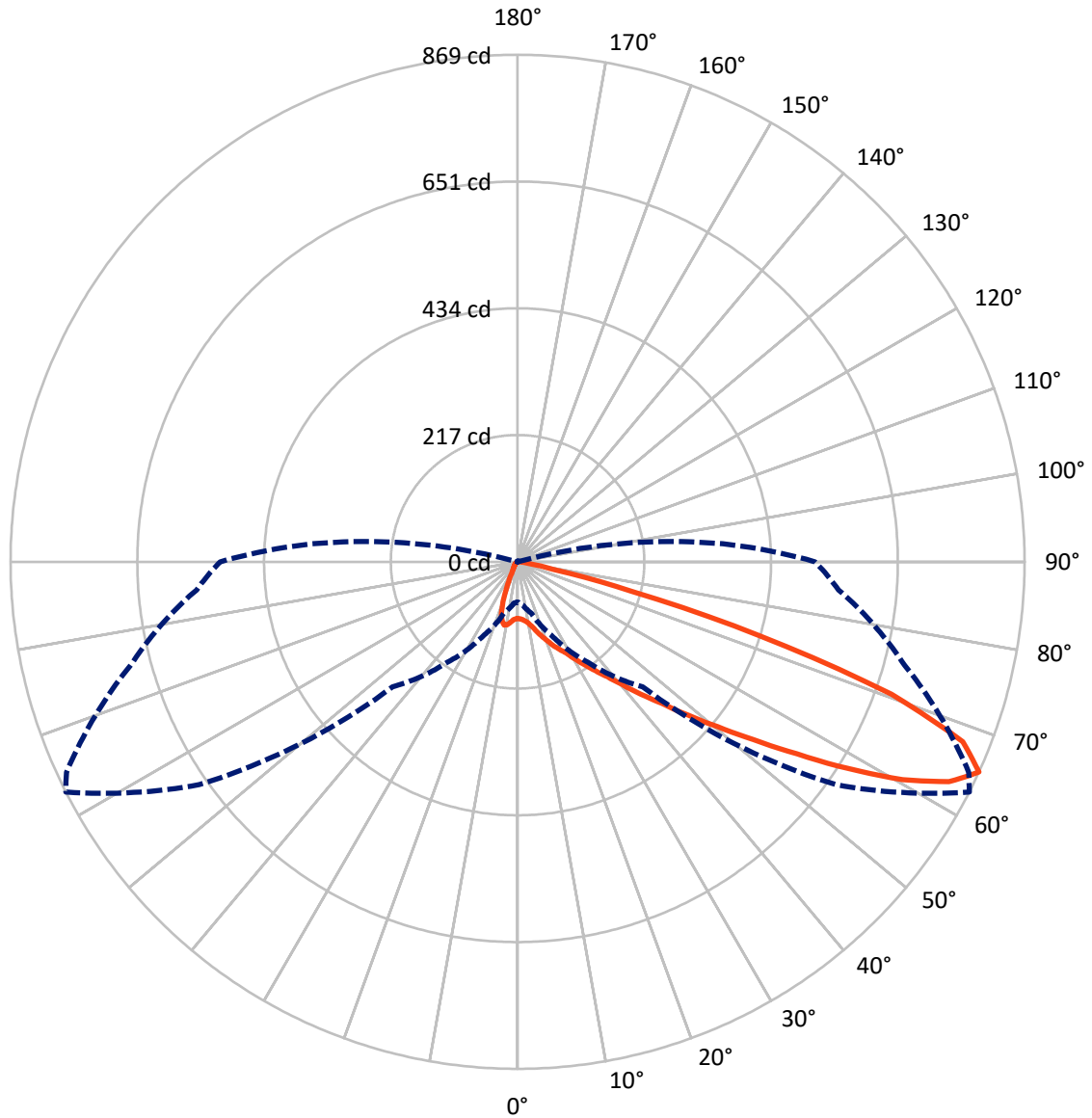
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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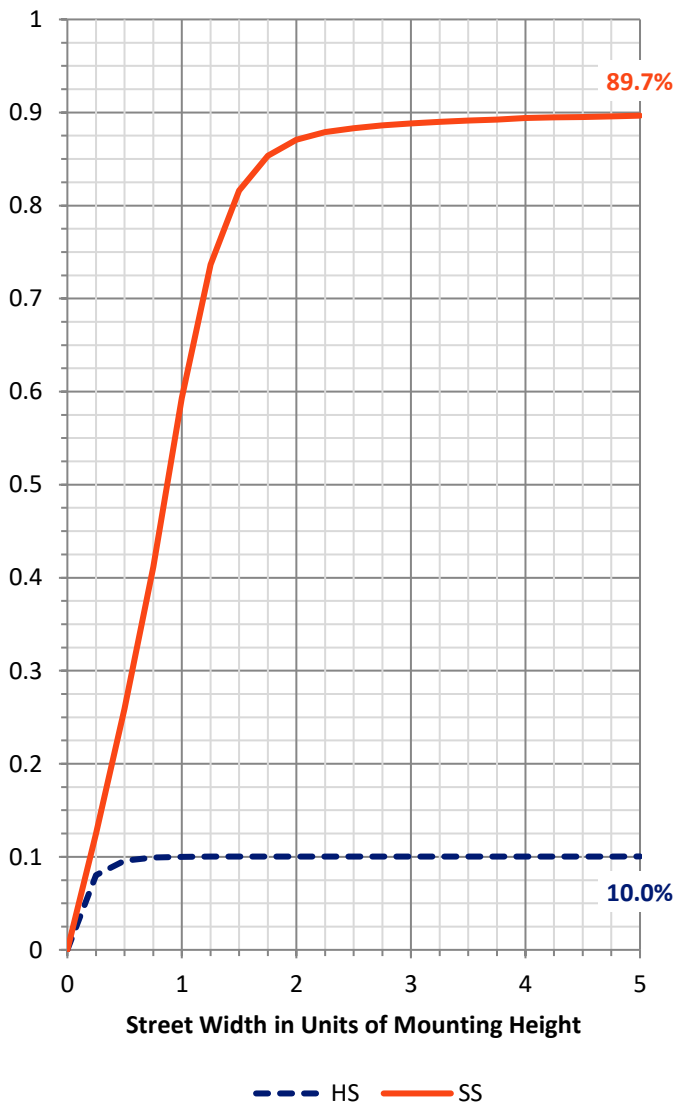
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.5	0.0	91.5
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	811.5	0.0	811.5
	% Fixture	89.9	0.0	89.9
Total	Lumens	903.0	0.0	903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	1.0
10°-20°	25.3	2.8
20°-30°	45.2	5.0
30°-40°	89.7	9.9
40°-50°	182.8	20.2
50°-60°	251.2	27.8
60°-70°	216.3	24.0
70°-80°	78.7	8.7
80°-90°	4.8	0.5
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°	903.0	100.0
0°-180°	903.0	100.0

Coefficient of Utilization

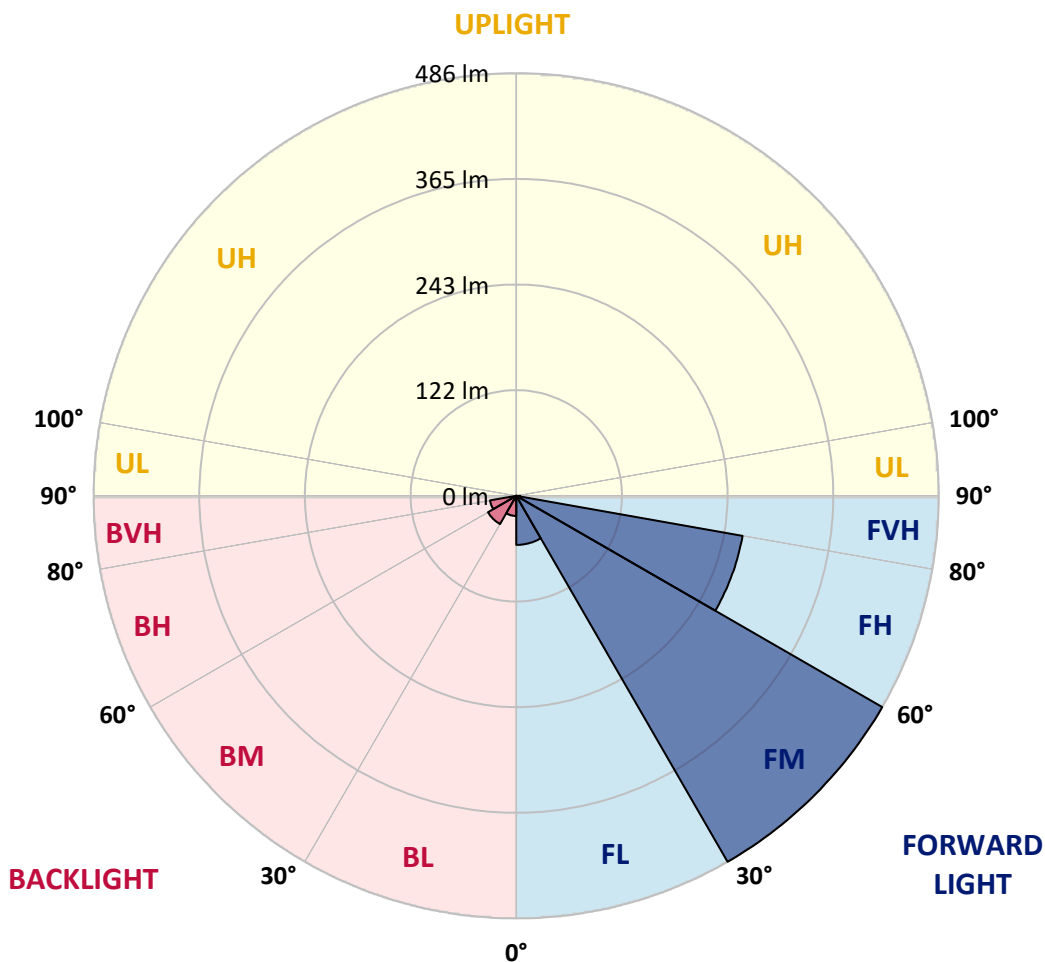


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	56.5	6.3			
FM (30°-60°)	486.2	53.8			
FH (60°-80°)	264.4	29.3			G0/660
FVH (80°-90°)	4.5	0.5			G0/10
BL (0°-30°)	23.1	2.6	B0/110		
BM (30°-60°)	37.5	4.2	B0/220		
BH (60°-80°)	30.6	3.4	B0/110		G0/110
BVH (80°-90°)	0.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	96.0	96.0	96.0	96.0	97.0	97.0	98.0	98.0	98.0	98.0	98.0
5°	88.0	88.0	89.0	90.0	93.0	96.0	98.0	100.0	100.0	102.0	103.0
7.5°	85.0	85.0	86.0	88.0	91.0	94.0	99.0	103.0	104.0	107.0	109.0
10°	88.0	88.0	89.0	91.0	94.0	98.0	103.0	108.0	109.0	113.9	116.9
12.5°	93.0	93.0	94.0	95.0	100.0	104.0	111.0	114.9	115.9	120.9	123.9
15°	100.0	100.0	100.0	101.0	104.0	111.0	117.9	123.9	124.9	128.9	130.9
17.5°	107.0	107.0	108.0	108.0	111.0	115.9	126.9	133.9	135.9	138.9	138.9
20°	114.9	114.9	115.9	116.9	118.9	123.9	134.9	143.9	146.9	150.9	146.9
22.5°	124.9	124.9	124.9	125.9	128.9	131.9	142.9	155.9	156.9	160.9	152.9
25°	136.9	136.9	135.9	136.9	138.9	143.9	152.9	165.9	168.9	170.9	157.9
27.5°	158.9	160.9	153.9	149.9	150.9	154.9	163.9	176.9	180.9	182.9	165.9
30°	209.9	208.9	194.9	174.9	163.9	166.9	177.9	192.9	196.9	196.9	173.9
32.5°	272.9	267.9	250.9	219.9	188.9	182.9	194.9	209.9	214.9	211.9	183.9
35°	337.9	335.9	311.9	276.9	230.9	204.9	212.9	228.9	232.9	230.9	197.9
37.5°	406.8	406.8	382.8	339.8	284.9	239.9	233.9	249.9	253.9	252.9	213.9
40°	484.8	483.8	461.8	413.8	349.8	288.9	262.9	276.9	281.9	279.9	233.9
42.5°	543.8	544.8	532.8	498.8	427.8	349.8	301.9	309.9	313.9	312.9	259.9
45°	581.7	583.7	580.7	574.7	516.8	430.8	356.8	345.8	349.8	349.8	287.9
47.5°	579.7	579.7	591.7	614.7	603.7	531.8	419.8	391.8	392.8	391.8	321.9
50°	525.8	528.8	553.8	607.7	657.7	645.7	493.8	443.8	441.8	438.8	356.8
52.5°	451.8	451.8	481.8	551.8	661.7	742.7	583.7	505.8	500.8	486.8	391.8
55°	366.8	373.8	405.8	466.8	603.7	773.7	676.7	580.7	566.7	533.8	429.8
57.5°	255.9	266.9	323.9	377.8	502.8	728.7	762.7	668.7	643.7	579.7	466.8
60°	168.9	174.9	229.9	296.9	391.8	612.7	802.6	757.7	720.7	620.7	499.8
62.5°	111.0	113.9	147.9	221.9	289.9	455.8	778.7	829.6	794.6	656.7	527.8
65°	69.0	71.0	91.0	139.9	209.9	302.9	665.7	868.6	852.6	686.7	551.8
67.5°	49.0	49.0	56.0	77.0	134.9	187.9	477.8	822.6	840.6	710.7	571.7
70°	41.0	43.0	52.0	49.0	83.0	104.0	297.9	679.7	717.7	674.7	545.8
72.5°	31.0	32.0	41.0	53.0	55.0	57.0	127.9	432.8	491.8	539.8	443.8
75°	22.0	23.0	31.0	40.0	43.0	37.0	45.0	200.9	247.9	325.9	265.9
77.5°	16.0	17.0	22.0	30.0	48.0	25.0	22.0	64.0	85.0	138.9	123.9
80°	9.0	10.0	15.0	21.0	28.0	19.0	13.0	24.0	28.0	43.0	32.0
82.5°	6.0	6.0	9.0	16.0	18.0	15.0	8.0	12.0	13.0	16.0	6.0
85°	2.0	2.0	7.0	10.0	13.0	8.0	5.0	6.0	7.0	9.0	2.0
87.5°	1.0	1.0	4.0	5.0	5.0	2.0	2.0	3.0	3.0	5.0	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°	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
2.5°	98.0	98.0	98.0	98.0	97.0	96.0	95.0	94.0	94.0	94.0	94.0
5°	103.0	102.0	102.0	100.0	99.0	97.0	95.0	93.0	91.0	90.0	90.0
7.5°	109.0	109.0	108.0	106.0	102.0	97.0	92.0	86.0	82.0	79.0	80.0
10°	116.9	116.9	114.9	111.0	103.0	92.0	76.0	61.0	52.0	46.0	45.0
12.5°	123.9	123.9	120.9	113.9	98.0	69.0	46.0	29.0	23.0	22.0	22.0
15°	131.9	130.9	126.9	112.0	78.0	41.0	22.0	19.0	18.0	17.0	17.0
17.5°	138.9	136.9	129.9	106.0	51.0	22.0	18.0	16.0	15.0	15.0	14.0
20°	143.9	141.9	129.9	89.0	28.0	17.0	15.0	14.0	12.0	12.0	12.0
22.5°	148.9	143.9	127.9	65.0	19.0	15.0	13.0	11.0	10.0	9.0	9.0
25°	150.9	144.9	123.9	42.0	16.0	13.0	11.0	9.0	8.0	7.0	7.0
27.5°	155.9	146.9	117.9	24.0	14.0	11.0	9.0	7.0	6.0	6.0	6.0
30°	161.9	147.9	106.0	18.0	12.0	9.0	7.0	5.0	5.0	5.0	4.0
32.5°	166.9	148.9	88.0	14.0	10.0	7.0	5.0	4.0	4.0	4.0	4.0
35°	177.9	153.9	69.0	12.0	8.0	6.0	4.0	3.0	3.0	3.0	3.0
37.5°	190.9	161.9	49.0	10.0	7.0	5.0	3.0	2.0	2.0	2.0	3.0
40°	205.9	172.9	31.0	9.0	6.0	4.0	2.0	2.0	2.0	2.0	2.0
42.5°	225.9	187.9	21.0	8.0	5.0	3.0	2.0	1.0	2.0	2.0	2.0
45°	248.9	207.9	15.0	7.0	4.0	2.0	2.0	1.0	1.0	1.0	1.0
47.5°	277.9	231.9	13.0	6.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0
50°	309.9	256.9	11.0	5.0	3.0	2.0	1.0	0.0	0.0	1.0	1.0
52.5°	342.8	283.9	10.0	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
55°	376.8	308.9	9.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	410.8	328.9	8.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	444.8	342.8	7.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	477.8	350.8	6.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	509.8	352.8	6.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	530.8	344.8	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	502.8	305.9	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	391.8	218.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	239.9	67.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	105.0	27.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.0	10.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)