

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: P595013

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

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-17)  
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  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1357.9 lumens  
Efficiency: N/A  
Efficacy: 42.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

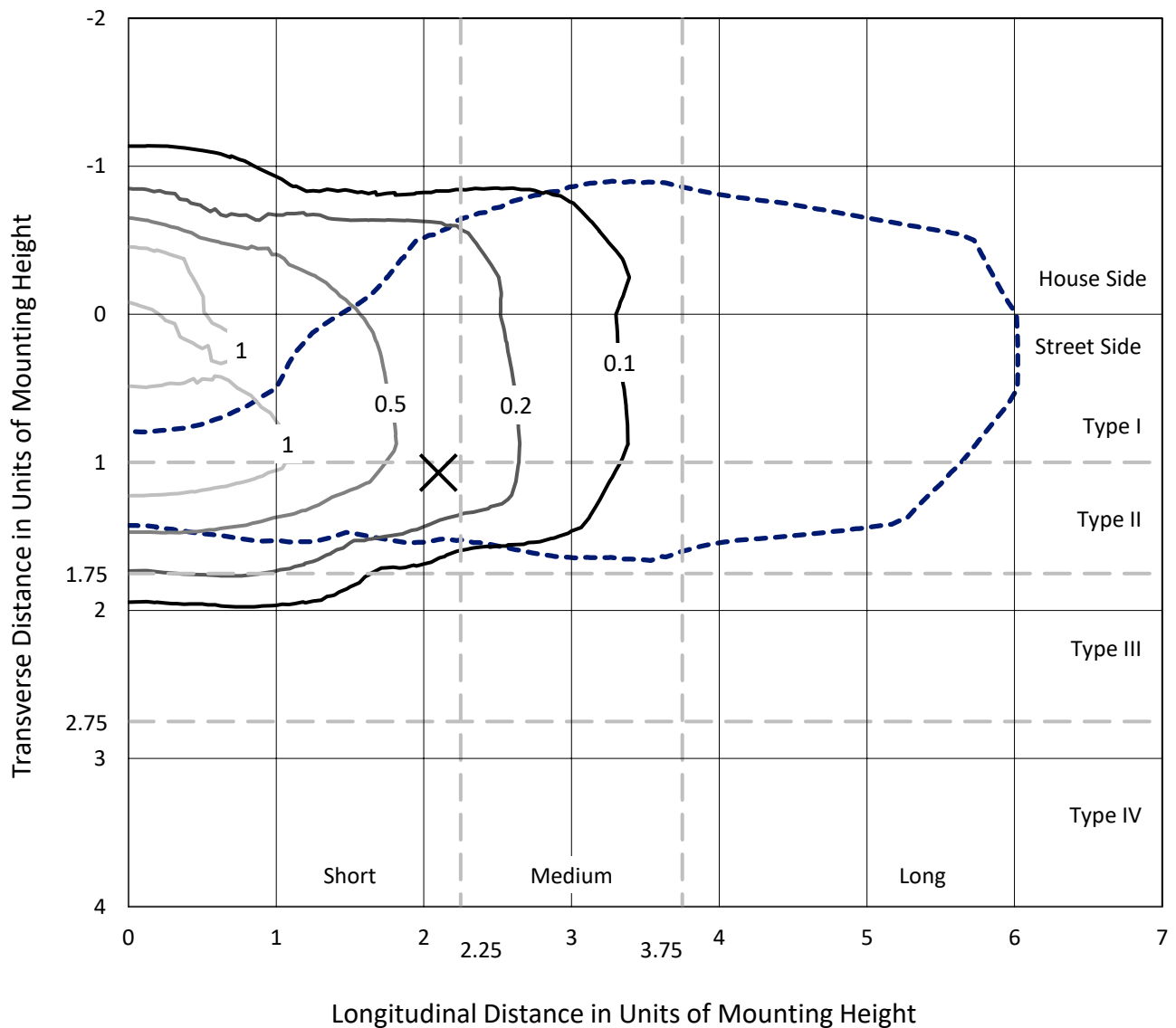




REPORT NUMBER: P595013  
 CATALOG NUMBER: IST-PA1A-AMB-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

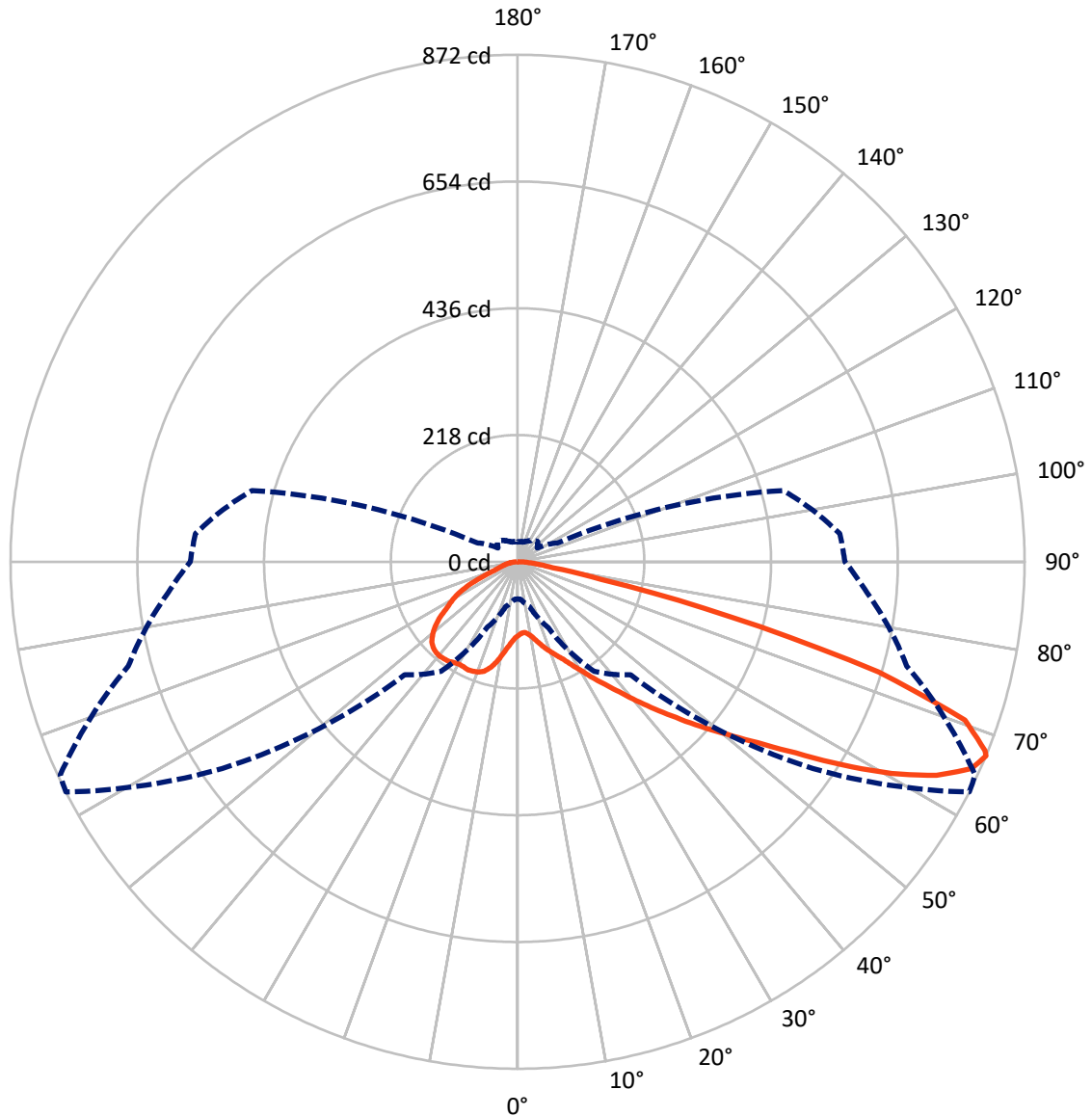
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P595013  
CATALOG NUMBER: IST-PA1A-AMB-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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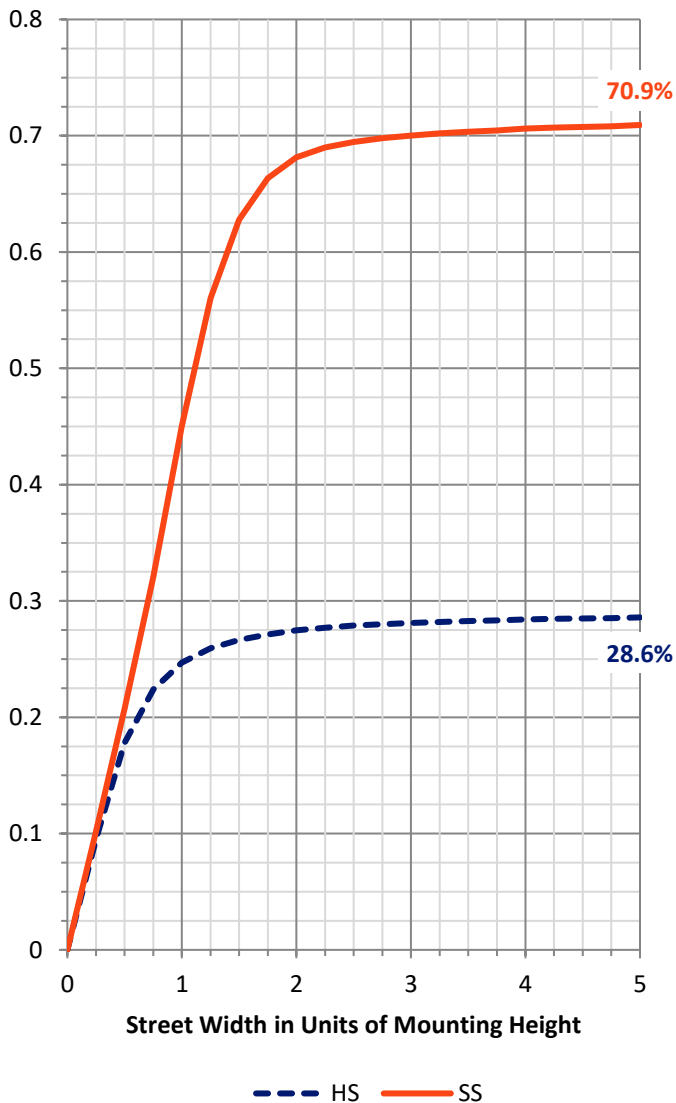
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	391.9	0.0	391.9
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	966.1	0.0	966.1
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	1357.9	0.0	1357.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.9	1.0
10°-20°	46.4	3.4
20°-30°	90.6	6.7
30°-40°	139.9	10.3
40°-50°	235.8	17.4
50°-60°	317.7	23.4
60°-70°	291.1	21.4
70°-80°	189.7	14.0
80°-90°	33.7	2.5
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°	1357.9	100.0
0°-180°	1357.9	100.0

**Coefficient of Utilization**

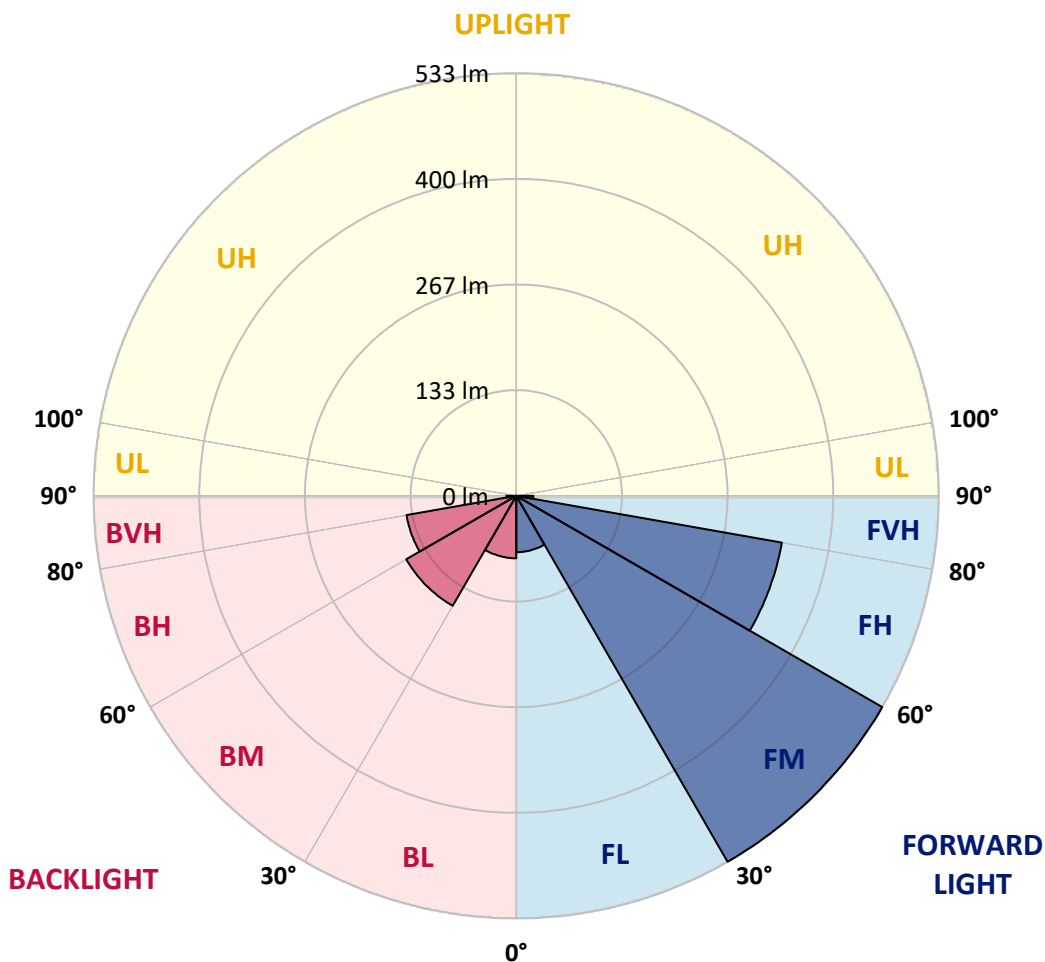


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	71.1	5.2			
FM (30°-60°)	533.2	39.3			
FH (60°-80°)	340.2	25.1			G0/660
FVH (80°-90°)	21.5	1.6			G1/100
BL (0°-30°)	78.8	5.8	B0/110		
BM (30°-60°)	160.3	11.8	B0/220		
BH (60°-80°)	140.6	10.4	B1/500		G1/500
BVH (80°-90°)	12.2	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





REPORT NUMBER: P595013

CATALOG NUMBER: IST-PA1A-AMB-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	118.0	118.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0	127.0
5°	112.0	111.0	112.0	113.0	115.0	117.0	120.0	122.0	124.0	127.0	131.0
7.5°	113.0	113.0	113.0	114.0	116.0	118.0	122.0	125.0	126.0	132.0	136.0
10°	119.0	118.0	119.0	118.0	120.0	123.0	127.0	130.0	132.0	138.0	144.0
12.5°	127.0	126.0	125.0	125.0	127.0	129.0	135.0	138.0	141.0	148.0	154.0
15°	135.0	134.0	134.0	133.0	134.0	136.0	142.0	147.0	150.0	158.0	163.0
17.5°	145.0	144.0	144.0	143.0	143.0	145.0	150.0	157.0	161.0	170.0	174.0
20°	157.0	156.0	155.0	154.0	155.0	155.0	159.0	166.0	170.0	182.0	184.0
22.5°	171.0	170.0	170.0	169.0	167.0	167.0	169.0	176.0	180.0	192.0	192.0
25°	189.0	188.0	186.0	184.0	184.0	181.0	182.0	187.0	191.0	206.0	202.0
27.5°	212.0	211.0	208.0	205.0	201.0	196.0	197.0	202.0	206.0	221.0	212.0
30°	245.0	243.0	237.0	229.0	221.0	214.0	215.0	218.0	222.0	236.0	223.0
32.5°	286.0	285.0	278.0	262.0	248.0	237.0	236.0	238.0	241.0	253.0	236.0
35°	336.0	333.0	325.0	304.0	281.0	266.0	259.0	259.0	263.0	271.0	250.0
37.5°	404.0	399.0	382.0	356.0	323.0	299.0	286.0	284.0	287.0	295.0	270.0
40°	490.0	483.0	467.0	422.0	375.0	337.0	319.0	314.0	314.0	322.0	293.0
42.5°	564.0	564.0	546.0	511.0	446.0	393.0	361.0	346.0	347.0	352.0	318.0
45°	616.0	614.0	609.0	594.0	534.0	465.0	409.0	382.0	383.0	382.0	348.0
47.5°	632.1	629.1	637.1	648.1	627.1	554.0	467.0	423.0	421.0	418.0	380.0
50°	600.0	597.0	624.1	670.1	694.1	667.1	534.0	466.0	462.0	455.0	411.0
52.5°	515.0	520.0	560.0	642.1	727.1	765.1	608.0	517.0	511.0	494.0	447.0
55°	438.0	442.0	485.0	558.0	703.1	816.1	689.1	580.0	569.0	536.0	480.0
57.5°	329.0	337.0	405.0	476.0	609.0	801.1	760.1	659.1	638.1	576.0	513.0
60°	225.0	228.0	305.0	399.0	504.0	710.1	805.1	739.1	709.1	618.0	544.0
62.5°	154.0	154.0	200.0	312.0	405.0	551.0	813.1	809.1	784.1	655.1	573.0
65°	92.0	93.0	121.0	205.0	310.0	391.0	745.1	858.1	839.1	679.1	595.0
67°	64.0	65.0	80.0	125.0	230.0	275.0	620.0	872.1	868.1	693.1	603.0
67.5°	61.0	61.0	73.0	113.0	212.0	255.0	588.0	867.1	870.1	695.1	603.0
70°	55.0	56.0	62.0	68.0	136.0	145.0	360.0	816.1	847.1	704.1	605.0
72.5°	44.0	45.0	55.0	64.0	91.0	89.0	160.0	649.1	743.1	710.1	605.0
75°	34.0	34.0	41.0	56.0	64.0	61.0	73.0	378.0	513.0	686.1	599.0
77.5°	25.0	26.0	32.0	42.0	63.0	43.0	46.0	147.0	253.0	590.0	569.0
80°	17.0	17.0	22.0	31.0	45.0	31.0	32.0	61.0	91.0	401.0	485.0
82.5°	10.0	11.0	15.0	23.0	30.0	30.0	21.0	34.0	39.0	161.0	272.0
85°	7.0	7.0	10.0	13.0	21.0	18.0	12.0	20.0	23.0	60.0	18.0
87.5°	3.0	3.0	5.0	7.0	9.0	7.0	8.0	8.0	9.0	18.0	8.0
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°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
2.5°	128.0	129.0	130.0	131.0	132.0	133.0	133.0	134.0	134.0	134.0	134.0
5°	132.0	134.0	137.0	139.0	141.0	143.0	144.0	145.0	145.0	145.0	146.0
7.5°	139.0	141.0	145.0	149.0	153.0	155.0	157.0	158.0	158.0	159.0	158.0
10°	147.0	150.0	156.0	162.0	166.0	169.0	170.0	167.0	165.0	164.0	163.0
12.5°	157.0	160.0	169.0	176.0	180.0	178.0	173.0	168.0	167.0	168.0	168.0
15°	167.0	170.0	180.0	188.0	189.0	181.0	175.0	176.0	178.0	180.0	180.0
17.5°	177.0	181.0	190.0	198.0	193.0	183.0	186.0	190.0	191.0	193.0	192.0
20°	186.0	188.0	199.0	203.0	194.0	192.0	199.0	202.0	203.0	205.0	204.0
22.5°	192.0	194.0	203.0	205.0	196.0	203.0	209.0	210.0	208.0	207.0	205.0
25°	200.0	199.0	205.0	205.0	203.0	211.0	212.0	203.0	197.0	196.0	194.0
27.5°	207.0	204.0	206.0	202.0	208.0	211.0	198.0	184.0	179.0	178.0	177.0
30°	214.0	207.0	202.0	201.0	210.0	198.0	172.0	160.0	154.0	154.0	154.0
32.5°	224.0	214.0	199.0	204.0	207.0	172.0	144.0	130.0	125.0	124.0	125.0
35°	235.0	220.0	197.0	211.0	196.0	143.0	113.0	100.0	100.0	100.0	102.0
37.5°	251.0	229.0	198.0	218.0	175.0	113.0	85.0	80.0	79.0	78.0	78.0
40°	270.0	243.0	204.0	225.0	152.0	87.0	70.0	67.0	63.0	61.0	62.0
42.5°	291.0	259.0	213.0	230.0	128.0	69.0	63.0	59.0	57.0	56.0	57.0
45°	316.0	281.0	229.0	232.0	107.0	64.0	62.0	59.0	57.0	55.0	56.0
47.5°	343.0	303.0	249.0	229.0	93.0	66.0	66.0	63.0	57.0	52.0	52.0
50°	372.0	327.0	271.0	219.0	84.0	72.0	68.0	58.0	51.0	48.0	47.0
52.5°	402.0	354.0	296.0	204.0	82.0	70.0	60.0	51.0	47.0	44.0	43.0
55°	433.0	384.0	322.0	185.0	77.0	64.0	54.0	47.0	44.0	41.0	41.0
57.5°	464.0	413.0	351.0	164.0	65.0	57.0	50.0	45.0	42.0	40.0	40.0
60°	492.0	446.0	383.0	149.0	55.0	53.0	48.0	46.0	44.0	42.0	42.0
62.5°	524.0	483.0	416.0	132.0	48.0	52.0	50.0	48.0	44.0	43.0	42.0
65°	548.0	522.0	448.0	104.0	44.0	52.0	50.0	44.0	39.0	38.0	38.0
67°	563.0	556.0	473.0	77.0	41.0	49.0	45.0	39.0	35.0	35.0	34.0
67.5°	567.0	564.0	479.0	70.0	40.0	47.0	44.0	38.0	34.0	34.0	33.0
70°	581.0	613.0	496.0	45.0	34.0	39.0	39.0	34.0	30.0	30.0	29.0
72.5°	589.0	648.1	481.0	33.0	30.0	34.0	35.0	30.0	26.0	26.0	25.0
75°	591.0	653.1	405.0	27.0	26.0	30.0	31.0	27.0	22.0	21.0	20.0
77.5°	566.0	584.0	257.0	22.0	22.0	26.0	26.0	24.0	18.0	18.0	17.0
80°	482.0	449.0	109.0	18.0	18.0	21.0	22.0	20.0	15.0	14.0	14.0
82.5°	266.0	171.0	29.0	13.0	13.0	16.0	18.0	16.0	11.0	11.0	9.0
85°	17.0	27.0	14.0	9.0	9.0	11.0	13.0	10.0	7.0	6.0	5.0
87.5°	4.0	9.0	6.0	3.0	3.0	4.0	6.0	3.0	2.0	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)