

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: P595015

Luminaire Tested: **IST-PA1A-AMB-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-19)  
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-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1326 lumens  
Efficiency: N/A  
Efficacy: 41.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

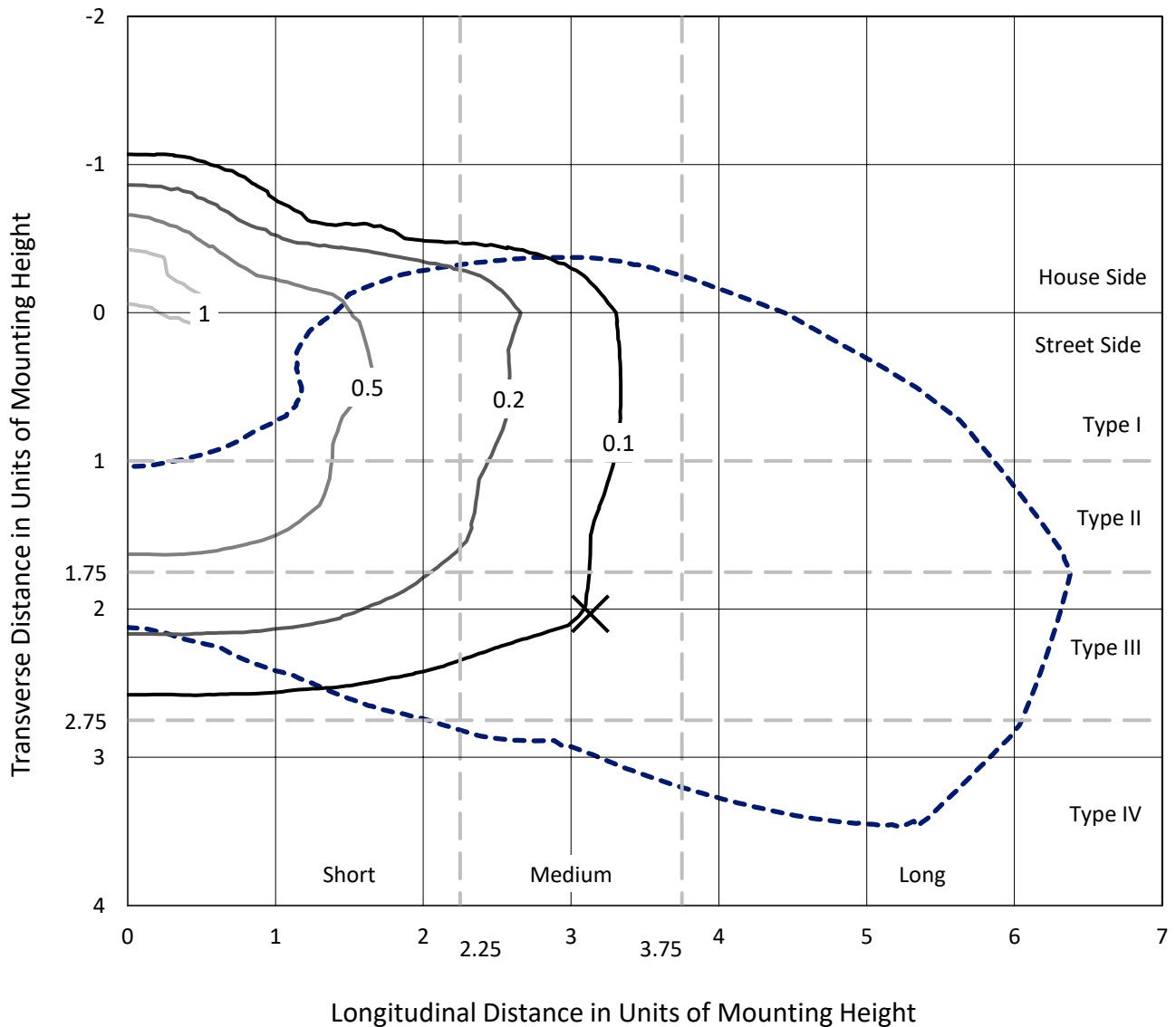
Input Watts (W): 31.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595015  
 CATALOG NUMBER: IST-PA1A-AMB-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

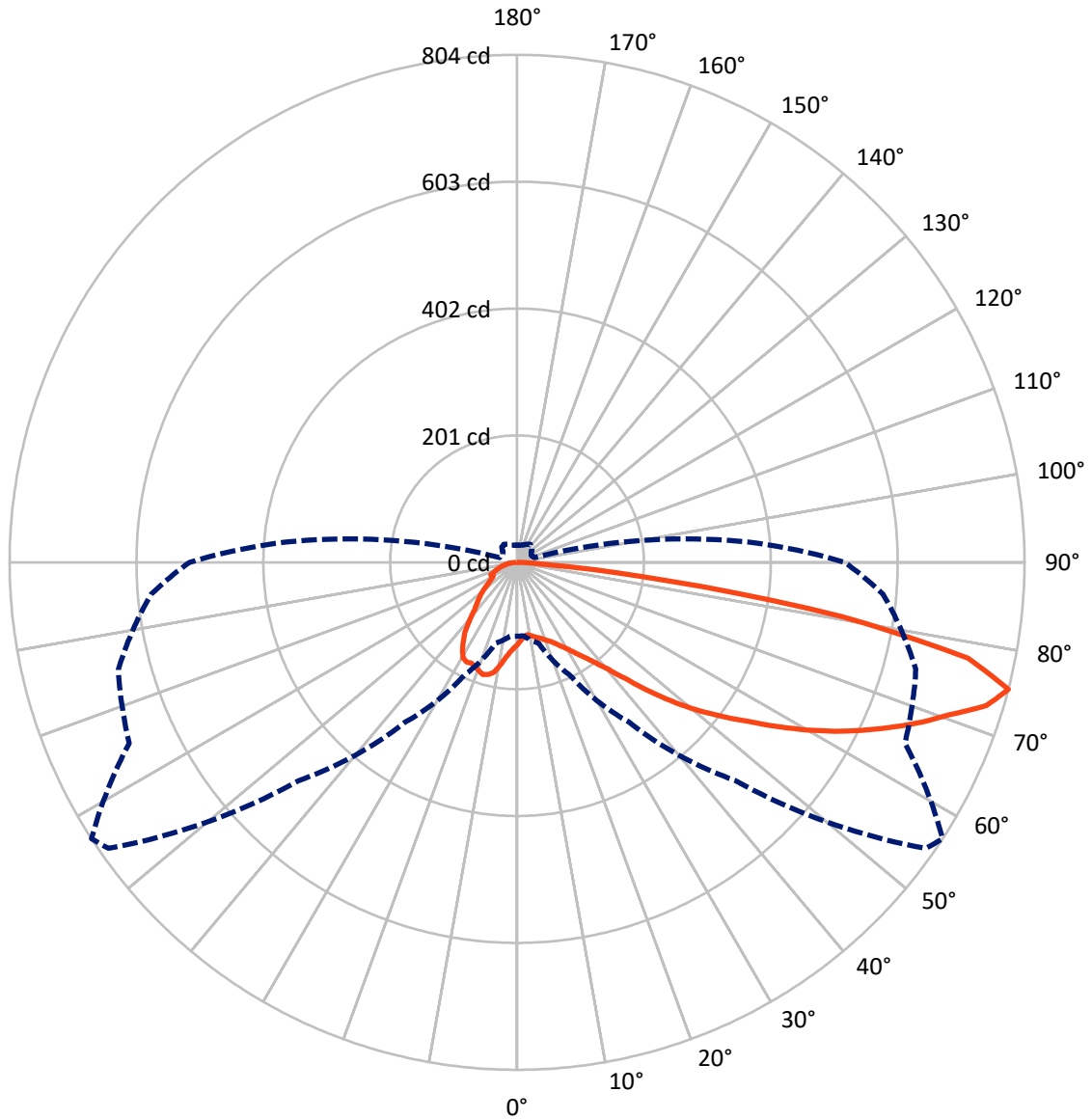
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P595015  
CATALOG NUMBER: IST-PA1A-AMB-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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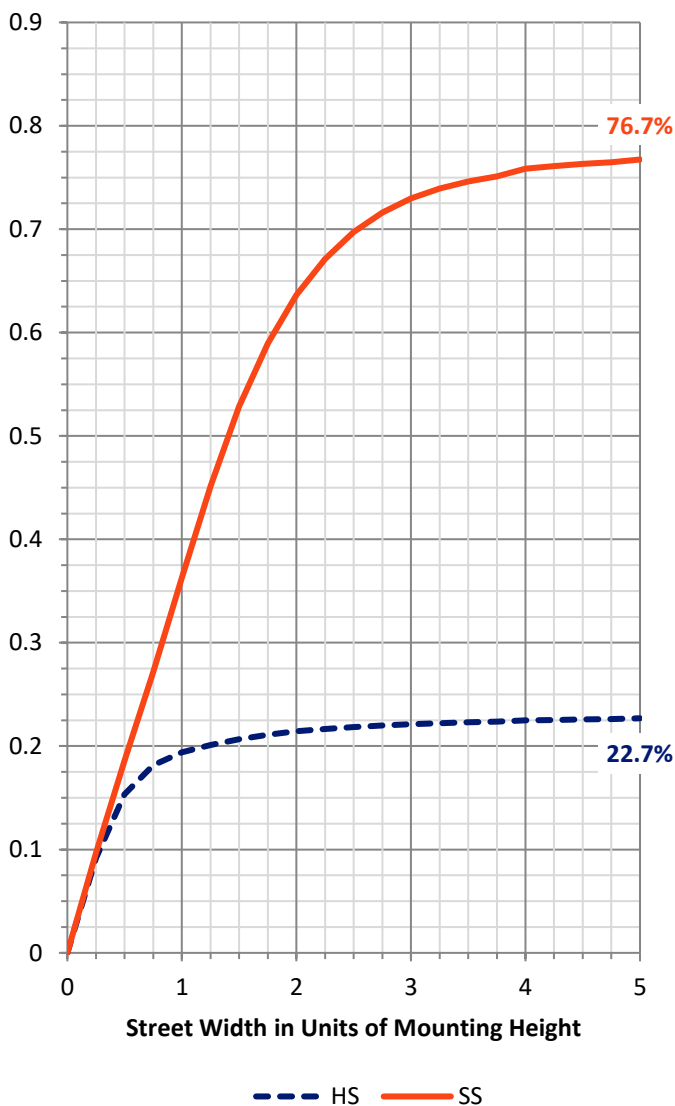
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	305.5	0.0	305.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	1020.4	0.0	1020.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	1326.0	0.0	1326.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.8	1.0
10°-20°	42.8	3.2
20°-30°	76.5	5.8
30°-40°	109.7	8.3
40°-50°	172.4	13.0
50°-60°	273.7	20.6
60°-70°	330.7	24.9
70°-80°	258.3	19.5
80°-90°	49.0	3.7
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°	1326.0	100.0
0°-180°	1326.0	100.0

**Coefficient of Utilization**

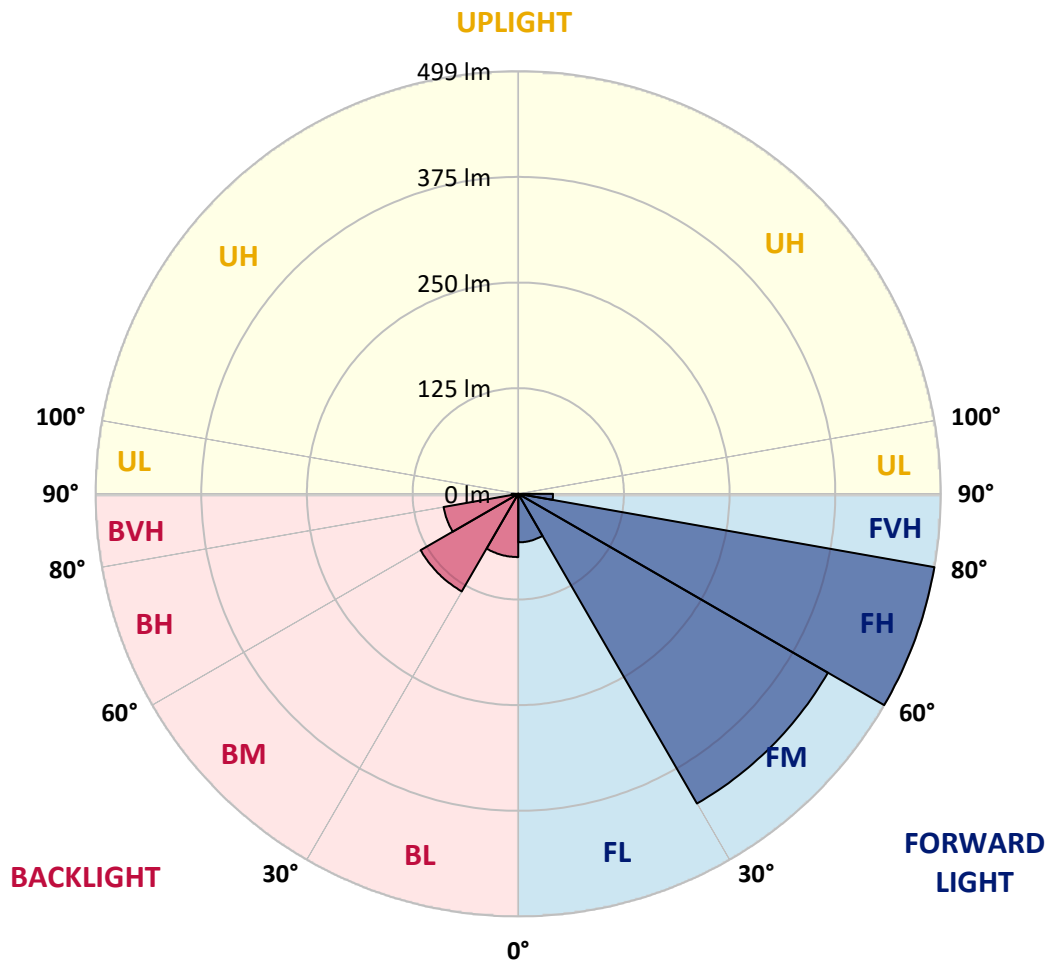


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 CATALOG NUMBER: IST-PA1A-AMB-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	57.3	4.3			
FM (30°-60°)	422.6	31.9			
FH (60°-80°)	499.4	37.7			G0/660
FVH (80°-90°)	41.1	3.1			G1/100
BL (0°-30°)	74.8	5.6	B0/110		
BM (30°-60°)	133.3	10.1	B0/220		
BH (60°-80°)	89.6	6.8	B0/110		G0/110
BVH (80°-90°)	7.9	0.6			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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CATALOG NUMBER: IST-PA1A-AMB-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
2.5°	116.0	117.0	117.0	118.0	119.0	121.0	122.0	123.0	125.0	126.0	129.0
5°	105.0	105.0	106.0	107.0	109.0	113.0	117.0	118.0	122.0	127.0	131.0
7.5°	102.0	102.0	103.0	104.0	106.0	110.0	115.0	116.0	122.0	129.0	136.0
10°	103.0	103.0	104.0	104.0	107.0	111.0	116.0	118.0	125.0	135.0	143.0
12.5°	105.0	105.0	106.0	107.0	109.0	112.0	119.0	121.0	129.0	141.0	152.0
15°	107.0	107.0	107.0	109.0	111.0	114.0	122.0	124.0	135.0	150.0	162.0
17.5°	109.0	109.0	109.0	111.0	113.0	117.0	125.0	127.0	141.0	159.0	171.0
20°	112.0	111.0	112.0	113.0	116.0	121.0	129.0	132.0	146.0	167.0	180.0
22.5°	115.0	114.0	114.0	116.0	119.0	125.0	134.0	136.0	153.0	178.0	189.0
25°	123.0	122.0	121.0	121.0	123.0	130.0	140.0	143.0	160.0	188.0	197.0
27.5°	134.0	134.0	131.0	129.0	129.0	135.0	147.0	151.0	168.0	198.0	205.0
30°	149.0	150.0	146.0	142.0	140.0	144.0	157.0	160.0	179.0	212.0	216.0
32.5°	177.0	176.0	170.0	162.0	156.0	157.0	168.0	172.0	191.0	227.0	227.0
35°	210.0	210.0	203.0	188.0	177.0	173.0	182.0	185.0	206.0	242.0	239.0
37.5°	242.0	243.0	240.0	222.0	205.0	194.0	199.0	202.0	223.0	261.0	254.0
40°	278.0	280.0	278.0	261.0	239.0	222.0	222.0	223.0	243.0	284.0	274.0
42.5°	321.1	320.1	322.1	302.1	279.0	257.0	252.0	252.0	270.0	312.1	298.1
45°	373.1	371.1	369.1	353.1	326.1	298.1	288.0	289.0	298.1	342.1	325.1
47.5°	438.1	439.1	429.1	412.1	382.1	351.1	330.1	328.1	331.1	374.1	353.1
50°	495.1	499.1	488.1	478.1	447.1	414.1	372.1	367.1	361.1	411.1	384.1
52.5°	530.1	536.1	531.1	534.1	517.1	491.1	415.1	405.1	395.1	452.1	415.1
55°	540.1	539.1	551.1	567.1	575.1	562.1	461.1	445.1	435.1	491.1	446.1
57.5°	517.1	522.1	557.1	584.1	616.1	618.1	507.1	492.1	478.1	531.1	476.1
60°	479.1	485.1	532.1	583.1	641.1	649.1	555.1	541.1	517.1	570.1	506.1
62.5°	444.1	448.1	493.1	565.1	641.1	659.1	600.1	589.1	557.1	605.1	540.1
65°	394.1	398.1	441.1	529.1	621.1	663.1	642.1	635.1	593.1	632.1	572.1
67.5°	340.1	343.1	379.1	469.1	586.1	662.1	684.1	681.1	624.1	654.1	598.1
70°	267.0	270.0	312.1	388.1	526.1	652.1	726.1	725.1	646.1	664.1	621.1
72.5°	190.0	189.0	227.0	302.1	431.1	604.1	779.1	777.1	660.1	665.1	625.1
75°	117.0	117.0	133.0	197.0	309.1	489.1	790.1	804.1	678.1	654.1	582.1
77.5°	61.0	61.0	68.0	109.0	176.0	306.1	694.1	730.1	650.1	615.1	494.1
80°	20.0	21.0	23.0	42.0	93.0	140.0	455.1	521.1	537.1	517.1	363.1
82.5°	16.0	16.0	18.0	23.0	46.0	42.0	191.0	239.0	297.1	306.1	170.0
85°	15.0	15.0	20.0	19.0	31.0	19.0	32.0	43.0	113.0	151.0	12.0
87.5°	4.0	5.0	11.0	11.0	18.0	7.0	8.0	9.0	10.0	38.0	5.0
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°	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
2.5°	130.0	131.0	133.0	134.0	136.0	137.0	138.0	139.0	140.0	140.0	140.0
5°	133.0	135.0	138.0	141.0	143.0	145.0	147.0	149.0	151.0	152.0	152.0
7.5°	139.0	141.0	146.0	150.0	154.0	156.0	159.0	161.0	163.0	164.0	165.0
10°	147.0	150.0	156.0	162.0	167.0	170.0	169.0	167.0	167.0	167.0	168.0
12.5°	156.0	160.0	168.0	175.0	179.0	175.0	170.0	165.0	164.0	165.0	165.0
15°	166.0	170.0	179.0	187.0	183.0	174.0	169.0	168.0	169.0	172.0	172.0
17.5°	176.0	180.0	190.0	194.0	184.0	173.0	174.0	178.0	183.0	187.0	187.0
20°	184.0	188.0	197.0	194.0	179.0	176.0	185.0	193.0	193.0	195.0	195.0
22.5°	192.0	195.0	202.0	191.0	174.0	185.0	194.0	193.0	191.0	191.0	191.0
25°	200.0	202.0	204.0	182.0	174.0	190.0	188.0	185.0	183.0	183.0	183.0
27.5°	206.0	207.0	202.0	173.0	178.0	182.0	176.0	171.0	166.0	166.0	166.0
30°	213.0	211.0	197.0	165.0	176.0	167.0	158.0	147.0	145.0	147.0	147.0
32.5°	222.0	216.0	195.0	163.0	163.0	152.0	133.0	126.0	127.0	131.0	131.0
35°	231.0	221.0	192.0	163.0	147.0	126.0	110.0	110.0	110.0	110.0	111.0
37.5°	242.0	229.0	186.0	157.0	131.0	101.0	95.0	93.0	90.0	88.0	89.0
40°	258.0	242.0	181.0	146.0	110.0	86.0	83.0	79.0	73.0	68.0	69.0
42.5°	277.0	257.0	183.0	136.0	91.0	78.0	73.0	67.0	60.0	56.0	56.0
45°	299.1	274.0	191.0	127.0	81.0	72.0	65.0	58.0	52.0	48.0	48.0
47.5°	322.1	291.1	195.0	114.0	73.0	65.0	58.0	51.0	47.0	43.0	43.0
50°	349.1	312.1	194.0	98.0	66.0	58.0	51.0	47.0	44.0	40.0	40.0
52.5°	375.1	340.1	192.0	82.0	58.0	52.0	47.0	44.0	41.0	37.0	36.0
55°	404.1	374.1	194.0	68.0	51.0	47.0	44.0	41.0	39.0	39.0	39.0
57.5°	444.1	417.1	194.0	56.0	46.0	45.0	44.0	45.0	51.0	50.0	49.0
60°	494.1	460.1	188.0	48.0	43.0	48.0	55.0	57.0	49.0	45.0	45.0
62.5°	553.1	505.1	153.0	43.0	44.0	60.0	57.0	49.0	42.0	41.0	41.0
65°	612.1	540.1	100.0	39.0	48.0	55.0	49.0	43.0	39.0	40.0	39.0
67.5°	655.1	554.1	63.0	36.0	41.0	47.0	45.0	40.0	36.0	38.0	38.0
70°	661.1	536.1	43.0	32.0	36.0	43.0	42.0	37.0	34.0	36.0	35.0
72.5°	616.1	475.1	35.0	29.0	31.0	38.0	39.0	34.0	31.0	31.0	30.0
75°	519.1	368.1	29.0	25.0	27.0	34.0	35.0	31.0	28.0	27.0	27.0
77.5°	389.1	241.0	24.0	21.0	22.0	29.0	32.0	29.0	25.0	24.0	23.0
80°	252.0	130.0	20.0	17.0	18.0	25.0	28.0	26.0	21.0	20.0	19.0
82.5°	105.0	34.0	14.0	13.0	13.0	20.0	23.0	22.0	18.0	16.0	15.0
85°	13.0	14.0	9.0	8.0	9.0	14.0	17.0	18.0	13.0	12.0	10.0
87.5°	3.0	6.0	4.0	3.0	3.0	6.0	10.0	10.0	6.0	5.0	5.0
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)