

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: P595016

Luminaire Tested: **IST-PA1A-AMB-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-22)
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-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 918 lumens
Efficiency: N/A
Efficacy: 29.0 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

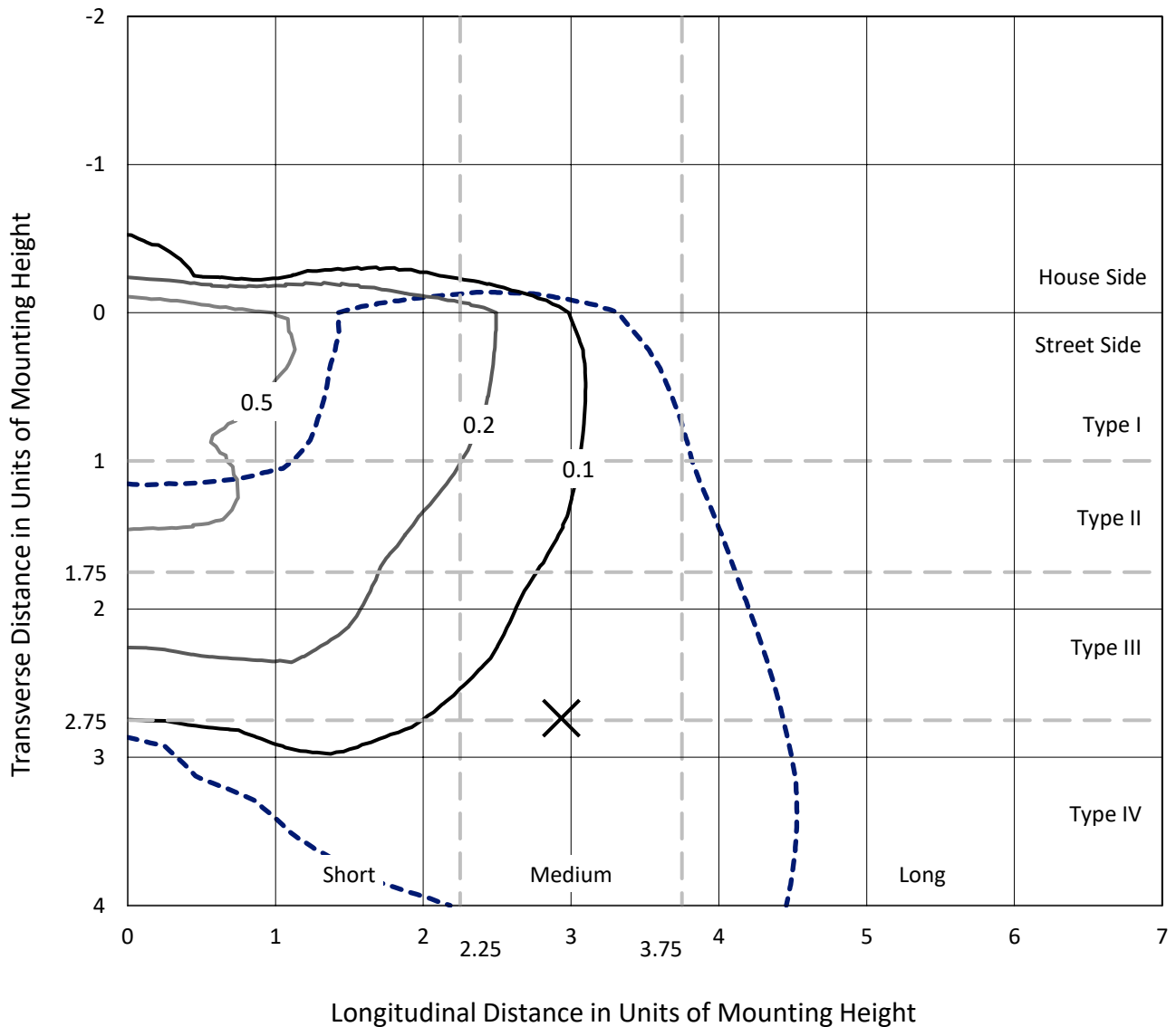
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595016
 CATALOG NUMBER: IST-PA1A-AMB-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

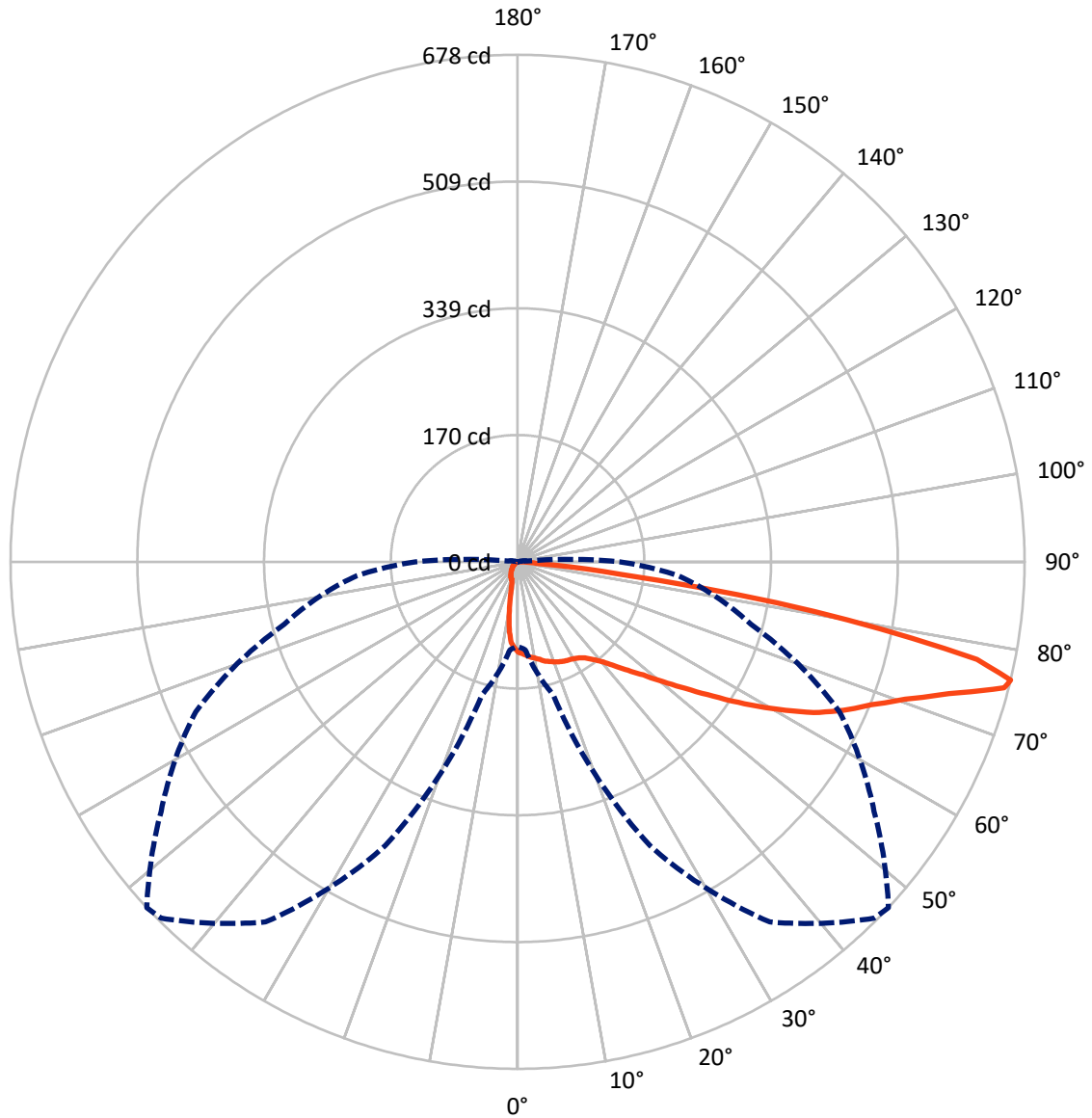
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595016
CATALOG NUMBER: IST-PA1A-AMB-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

REPORT NUMBER: P595016
 CATALOG NUMBER: IST-PA1A-AMB-U-T4W-HSS

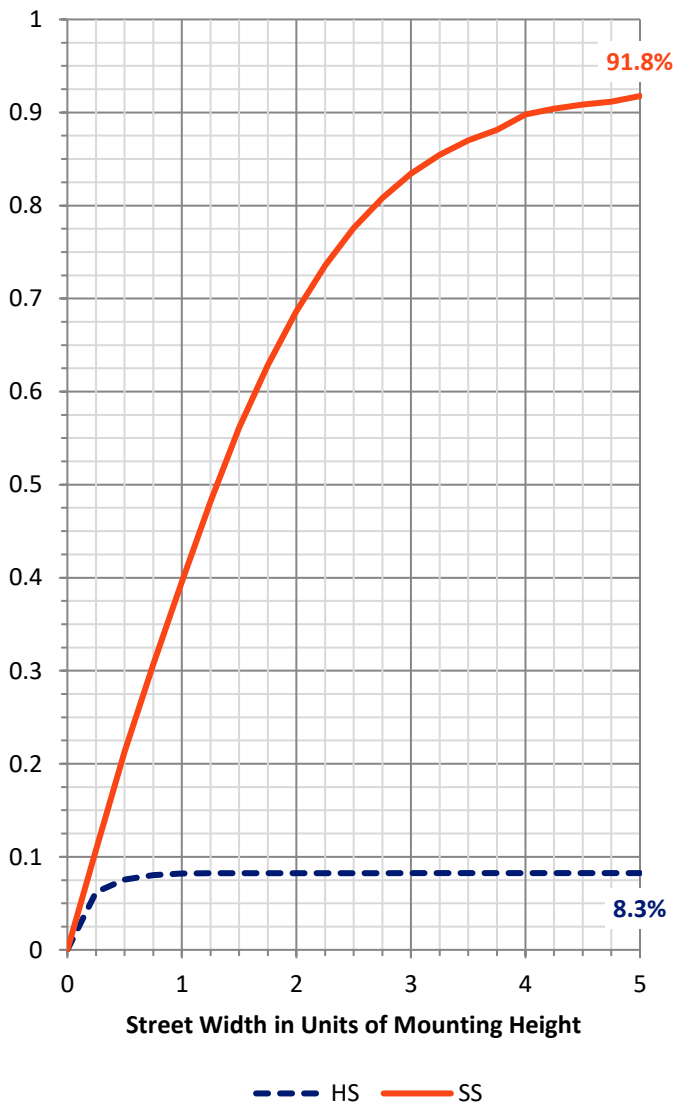
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	76.3	0.0	76.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	841.7	0.0	841.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	918.0	0.0	918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	1.1
10°-20°	27.0	2.9
20°-30°	42.4	4.6
30°-40°	59.8	6.5
40°-50°	97.5	10.6
50°-60°	175.2	19.1
60°-70°	266.0	29.0
70°-80°	220.4	24.0
80°-90°	19.3	2.1
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°	918.0	100.0
0°-180°	918.0	100.0

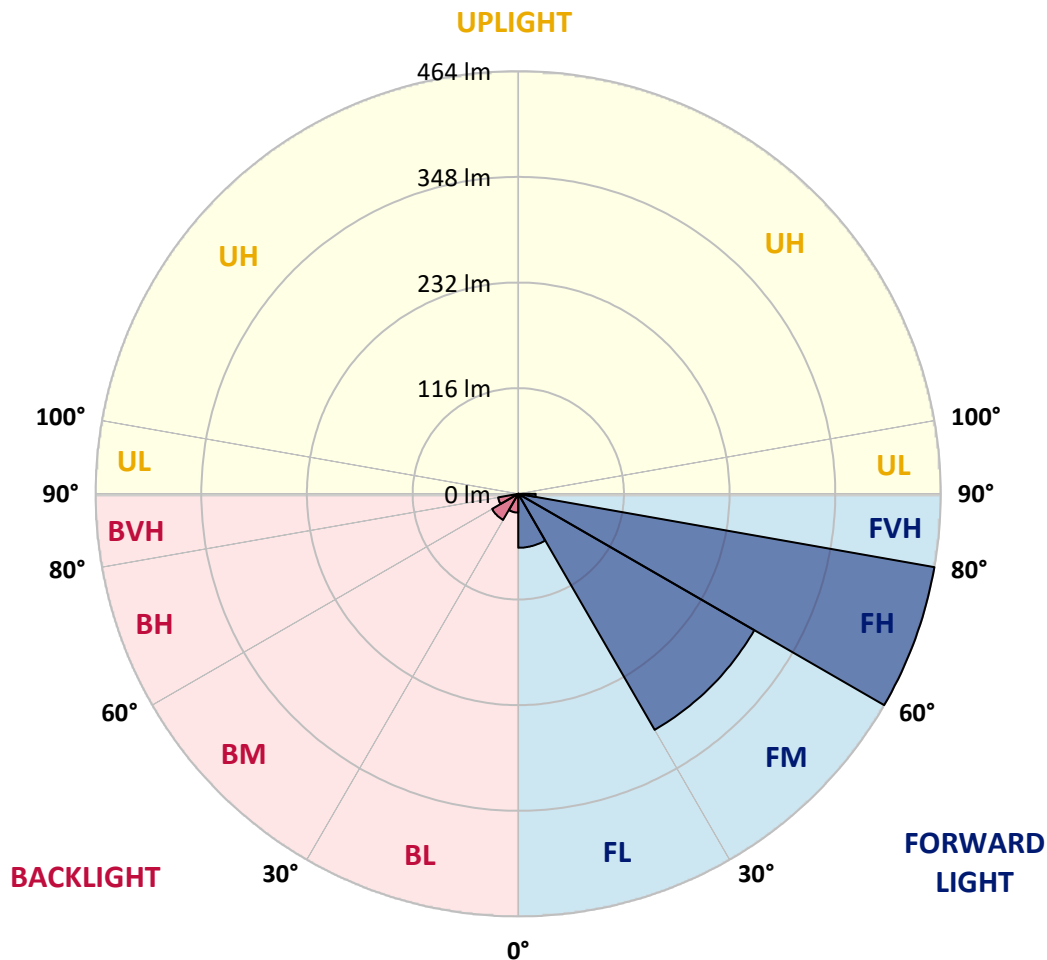


REPORT NUMBER: P595016
 CATALOG NUMBER: IST-PA1A-AMB-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	59.3	6.5			
FM (30°-60°)	299.3	32.6			
FH (60°-80°)	464.0	50.5			G0/660
FVH (80°-90°)	19.2	2.1			G1/100
BL (0°-30°)	20.6	2.2	B0/110		
BM (30°-60°)	33.2	3.6	B0/220		
BH (60°-80°)	22.4	2.4	B0/110		G0/110
BVH (80°-90°)	0.0	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 Medium





REPORT NUMBER: P595016

CATALOG NUMBER: IST-PA1A-AMB-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
2.5°	126.0	126.0	126.0	125.0	125.0	123.0	123.0	122.0	122.0	121.0	120.0
5°	132.1	132.1	131.0	130.0	129.0	127.0	126.0	124.0	122.0	120.0	118.0
7.5°	139.1	139.1	138.1	135.1	133.1	129.0	129.0	126.0	123.0	120.0	117.0
10°	144.1	144.1	143.1	140.1	136.1	132.1	131.0	128.0	125.0	122.0	118.0
12.5°	149.1	149.1	148.1	144.1	139.1	135.1	134.1	132.1	128.0	123.0	119.0
15°	152.1	153.1	152.1	147.1	142.1	138.1	138.1	135.1	131.0	127.0	121.0
17.5°	153.1	154.1	153.1	148.1	143.1	141.1	140.1	138.1	134.1	129.0	122.0
20°	153.1	154.1	154.1	148.1	144.1	144.1	143.1	142.1	138.1	132.1	125.0
22.5°	151.1	152.1	153.1	147.1	145.1	145.1	145.1	145.1	141.1	135.1	127.0
25°	150.1	150.1	152.1	146.1	145.1	146.1	147.1	148.1	145.1	139.1	131.0
27.5°	149.1	149.1	150.1	145.1	145.1	148.1	148.1	150.1	149.1	144.1	135.1
30°	150.1	150.1	151.1	146.1	146.1	150.1	150.1	153.1	153.1	148.1	139.1
32.5°	153.1	153.1	155.1	149.1	150.1	153.1	153.1	156.1	158.1	154.1	145.1
35°	158.1	158.1	160.1	154.1	155.1	158.1	158.1	161.1	164.1	161.1	152.1
37.5°	168.1	166.1	169.1	162.1	163.1	165.1	166.1	169.1	172.1	170.1	160.1
40°	183.1	181.1	186.1	173.1	171.1	176.1	176.1	178.1	182.1	181.1	171.1
42.5°	211.1	212.1	217.1	188.1	184.1	190.1	190.1	191.1	195.1	195.1	187.1
45°	257.1	257.1	259.1	214.1	201.1	206.1	207.1	209.1	212.1	214.1	206.1
47.5°	307.1	304.1	292.1	254.1	227.1	226.1	226.1	230.1	233.1	239.1	232.1
50°	360.1	353.1	340.1	303.1	264.1	251.1	252.1	253.1	261.1	269.1	264.1
52.5°	395.1	391.1	388.1	362.1	312.1	282.1	281.1	283.1	293.1	303.1	298.1
55°	398.2	397.2	413.2	417.2	365.1	321.1	317.1	317.1	331.1	342.1	336.1
57.5°	402.2	402.2	426.2	452.2	422.2	364.1	358.1	355.1	370.1	379.1	376.1
60°	422.2	422.2	447.2	487.2	466.2	407.2	401.2	397.2	411.2	423.2	419.2
62.5°	466.2	467.2	490.2	529.2	509.2	447.2	444.2	436.2	455.2	464.2	461.2
65°	459.2	465.2	534.2	576.2	556.2	482.2	479.2	473.2	496.2	511.2	506.2
67.5°	401.2	409.2	513.2	618.2	603.2	514.2	510.2	507.2	536.2	554.2	554.2
70°	359.1	367.1	435.2	632.2	632.2	557.2	550.2	542.2	574.2	586.2	571.2
72.5°	290.1	306.1	398.2	608.2	649.2	605.2	603.2	571.2	593.2	545.2	483.2
75°	130.0	136.1	272.1	499.2	626.2	672.3	672.3	596.2	528.2	408.2	296.1
76°	113.0	118.0	184.1	419.2	588.2	674.3	678.3	582.2	475.2	323.1	216.1
77.5°	82.0	86.0	118.0	276.1	476.2	623.2	628.2	526.2	359.1	207.1	106.0
80°	15.0	17.0	32.0	91.0	236.1	379.1	403.2	316.1	171.1	55.0	14.0
82.5°	5.0	6.0	13.0	34.0	82.0	131.0	138.1	115.0	43.0	12.0	5.0
85°	1.0	2.0	5.0	18.0	31.0	20.0	26.0	27.0	14.0	7.0	1.0
87.5°	0.0	0.0	2.0	5.0	6.0	4.0	4.0	10.0	6.0	5.0	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



REPORT NUMBER: P595016
 CATALOG NUMBER: IST-PA1A-AMB-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
2.5°	120.0	119.0	118.0	117.0	116.0	115.0	115.0	114.0	114.0	113.0	113.0
5°	117.0	116.0	114.0	112.0	110.0	108.0	105.0	101.0	97.0	96.0	96.0
7.5°	116.0	114.0	111.0	107.0	100.0	89.0	79.0	69.0	65.0	61.0	62.0
10°	116.0	114.0	109.0	100.0	82.0	63.0	47.0	38.0	35.0	34.0	34.0
12.5°	116.0	113.0	107.0	88.0	62.0	39.0	29.0	27.0	28.0	29.0	29.0
15°	117.0	114.0	104.0	74.0	41.0	27.0	25.0	25.0	26.0	28.0	28.0
17.5°	118.0	114.0	98.0	57.0	28.0	25.0	24.0	24.0	25.0	26.0	27.0
20°	121.0	116.0	91.0	41.0	25.0	24.0	24.0	23.0	24.0	25.0	26.0
22.5°	123.0	117.0	81.0	29.0	23.0	23.0	22.0	22.0	22.0	24.0	24.0
25°	126.0	120.0	71.0	23.0	21.0	22.0	21.0	21.0	21.0	22.0	23.0
27.5°	130.0	123.0	60.0	20.0	20.0	20.0	20.0	20.0	19.0	20.0	21.0
30°	134.1	127.0	47.0	19.0	18.0	18.0	18.0	18.0	17.0	18.0	18.0
32.5°	140.1	132.1	35.0	17.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0
35°	147.1	137.1	26.0	16.0	15.0	15.0	14.0	14.0	14.0	14.0	14.0
37.5°	156.1	142.1	20.0	15.0	14.0	13.0	12.0	12.0	11.0	11.0	12.0
40°	167.1	147.1	17.0	14.0	13.0	11.0	10.0	9.0	8.0	8.0	8.0
42.5°	183.1	153.1	15.0	13.0	12.0	10.0	8.0	7.0	5.0	5.0	5.0
45°	203.1	161.1	14.0	13.0	13.0	9.0	7.0	5.0	3.0	3.0	3.0
47.5°	231.1	170.1	13.0	12.0	12.0	7.0	4.0	2.0	1.0	2.0	2.0
50°	266.1	183.1	12.0	11.0	11.0	6.0	3.0	1.0	0.0	1.0	1.0
52.5°	302.1	197.1	11.0	10.0	9.0	4.0	1.0	0.0	0.0	0.0	0.0
55°	338.1	207.1	11.0	9.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	384.1	216.1	10.0	8.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	432.2	222.1	9.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	482.2	226.1	7.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	533.2	225.1	5.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	569.2	216.1	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	529.2	174.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	393.1	97.0	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	201.1	25.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76°	137.1	13.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	56.0	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	0.0	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)