

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: P595010

Luminaire Tested: **IST-PA1A-AMB-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-16)
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-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1089 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G0

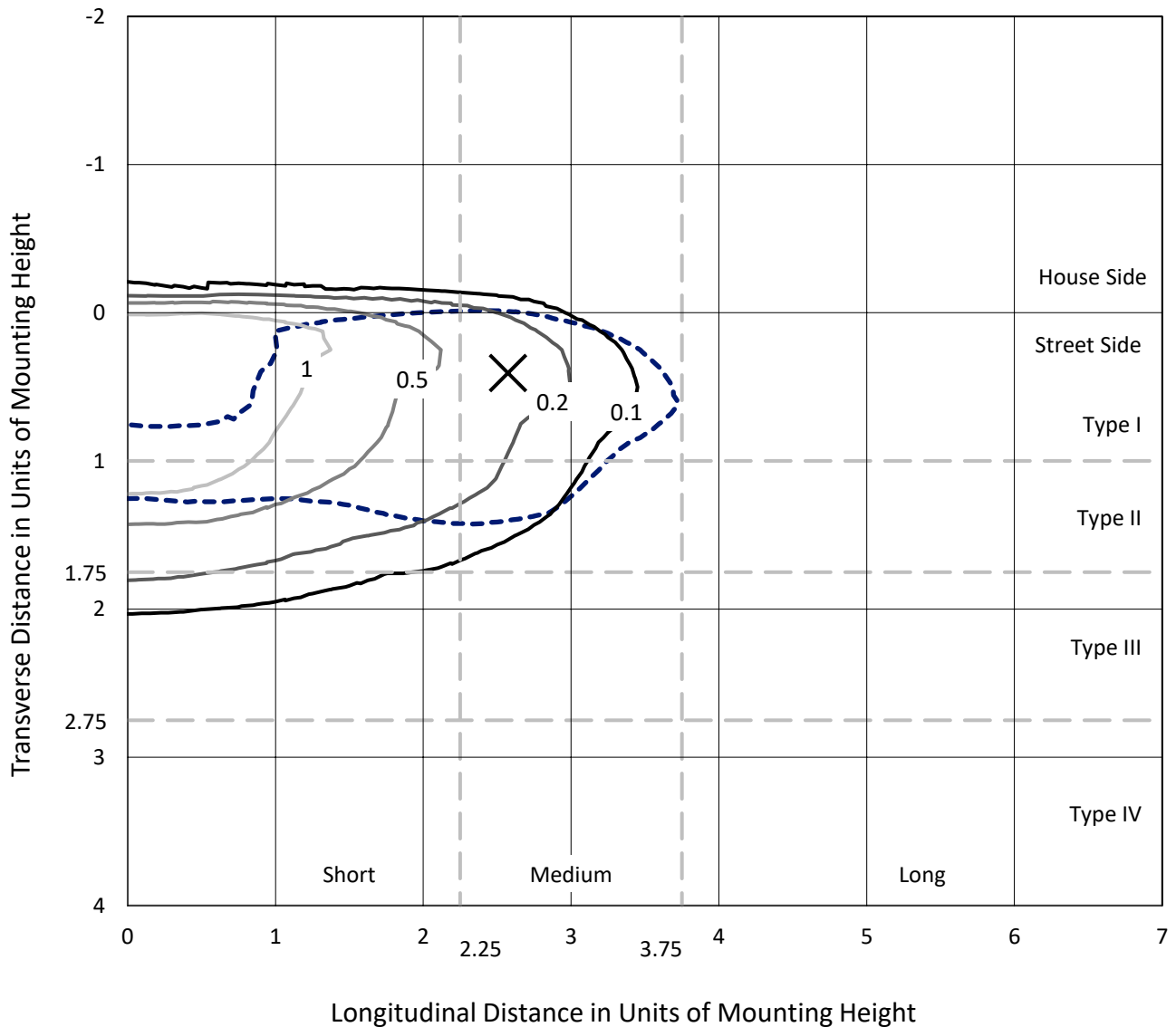
Input Watts (W): 31.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

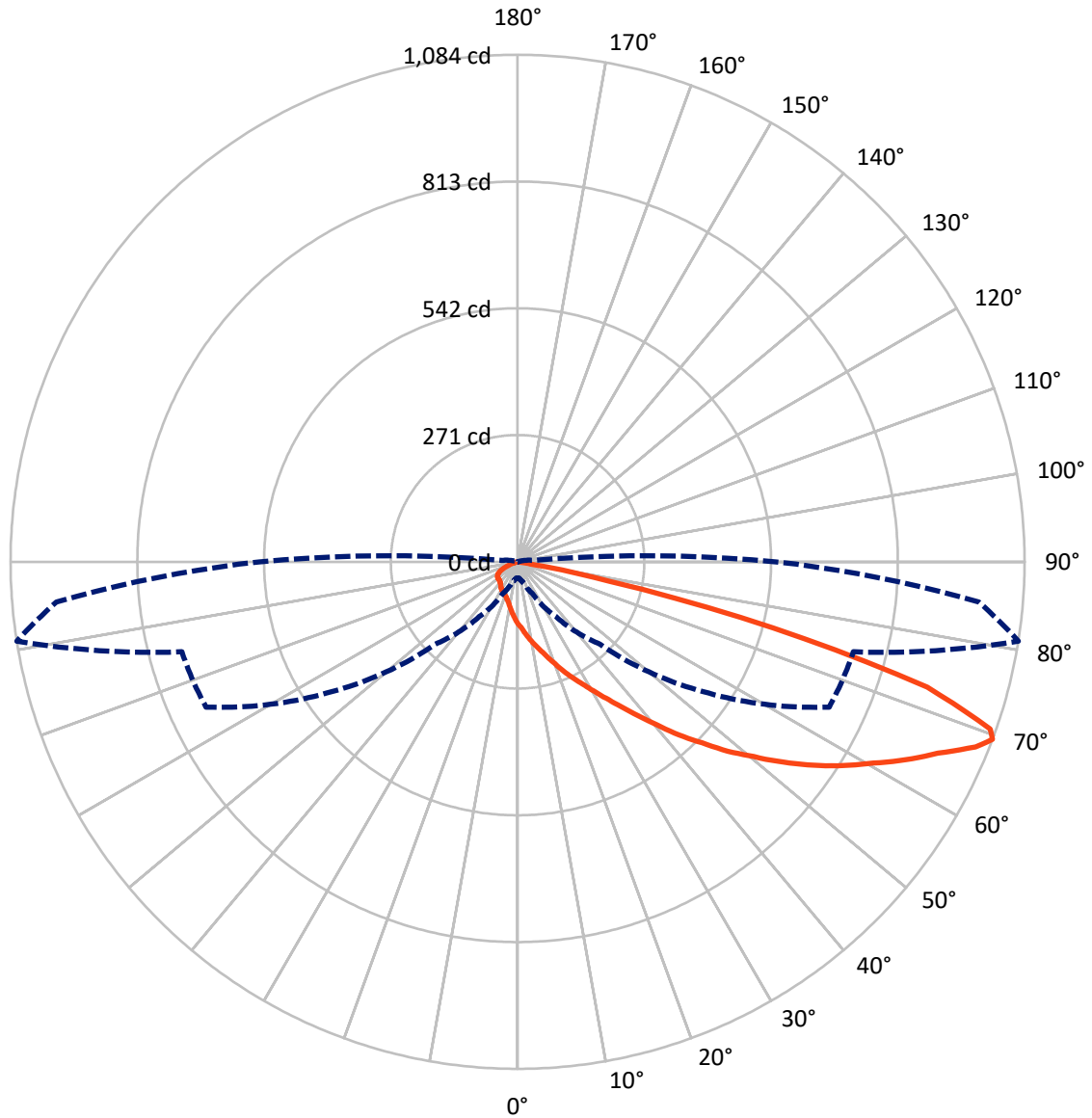
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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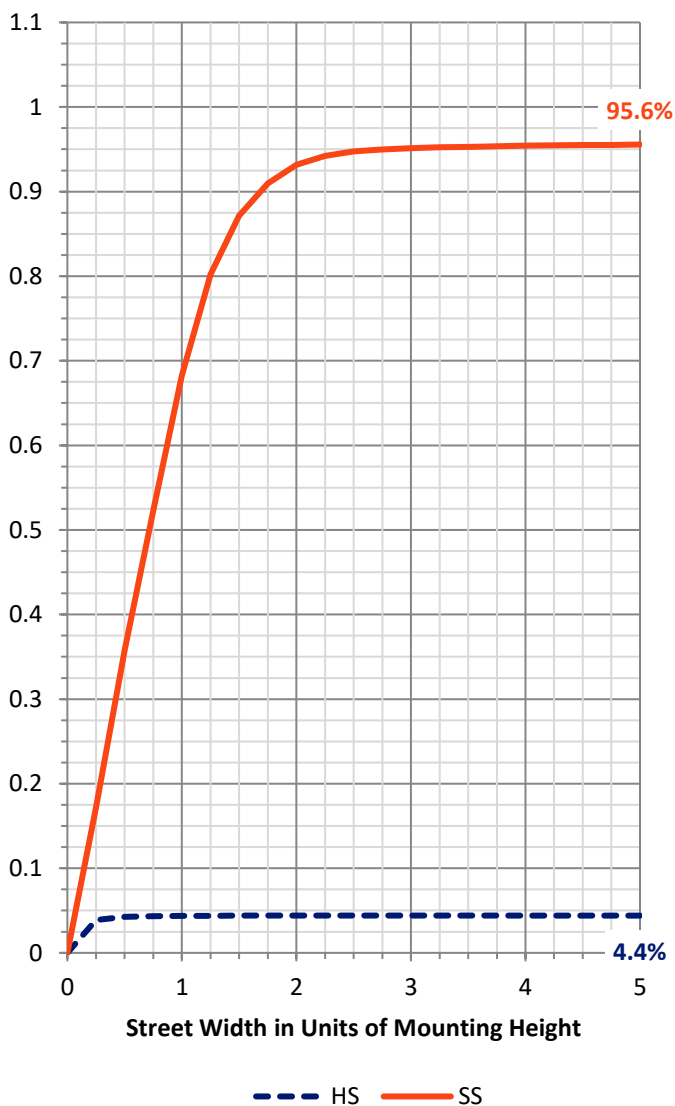
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48.2	0.0	48.2
	% Fixture	4.4	0.0	4.4
Street Side	Lumens	1040.8	0.0	1040.8
	% Fixture	95.6	0.0	95.6
Total	Lumens	1089.0	0.0	1089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	1.2
10°-20°	40.3	3.7
20°-30°	76.1	7.0
30°-40°	134.9	12.4
40°-50°	227.7	20.9
50°-60°	265.1	24.3
60°-70°	234.7	21.6
70°-80°	94.5	8.7
80°-90°	2.9	0.3
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°	1089.0	100.0
0°-180°	1089.0	100.0

Coefficient of Utilization

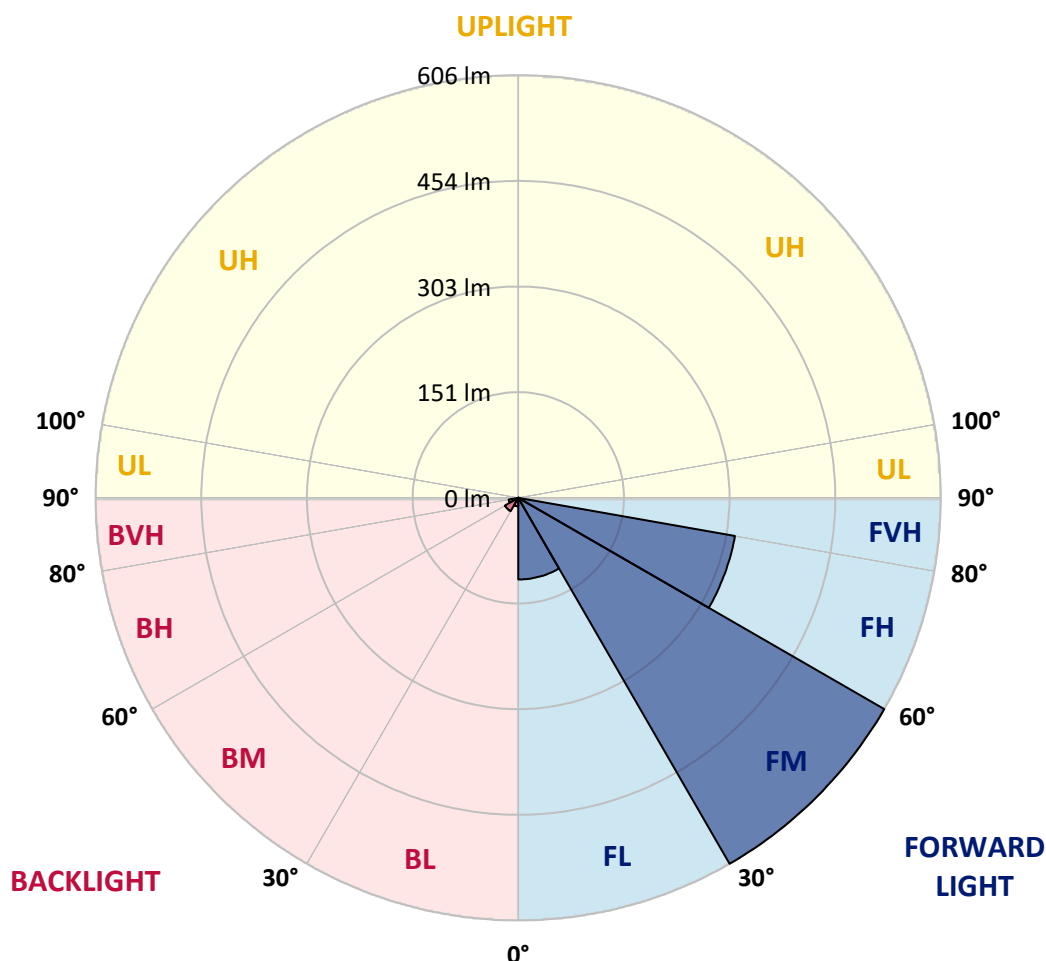


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.0	10.7			
FM (30°-60°)	605.7	55.6			
FH (60°-80°)	315.3	29.0			G0/660
FVH (80°-90°)	2.8	0.3			G0/10
BL (0°-30°)	12.2	1.1	B0/110		
BM (30°-60°)	22.1	2.0	B0/220		
BH (60°-80°)	13.9	1.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	199.0	193.0	191.0	189.0	186.0	179.0	170.0	160.0	149.0	140.0	138.0
5°	238.0	234.0	232.0	228.0	222.0	213.0	202.0	186.0	167.0	151.0	145.0
7.5°	258.0	254.0	254.0	250.0	247.0	239.0	226.0	209.0	184.0	163.0	152.0
10°	267.9	263.9	265.9	264.9	262.9	256.0	244.0	227.0	199.0	175.0	161.0
12.5°	261.0	257.0	261.0	265.9	272.9	271.9	261.9	244.0	215.0	187.0	170.0
15°	251.0	248.0	252.0	259.0	272.9	279.9	277.9	261.9	232.0	201.0	182.0
17.5°	255.0	251.0	255.0	262.9	272.9	284.9	291.9	278.9	249.0	217.0	196.0
20°	264.9	261.0	264.9	271.9	282.9	291.9	301.9	295.9	266.9	235.0	213.0
22.5°	281.9	276.9	278.9	282.9	294.9	306.9	312.9	310.9	286.9	255.0	232.0
25°	300.9	296.9	297.9	299.9	307.9	321.9	328.9	324.9	305.9	274.9	252.0
27.5°	323.9	319.9	320.9	320.9	323.9	338.9	349.9	340.9	324.9	295.9	272.9
30°	344.9	339.9	340.9	340.9	342.9	355.9	372.9	361.9	342.9	319.9	294.9
32.5°	382.9	378.9	367.9	360.9	363.9	377.9	397.9	385.9	362.9	347.9	320.9
35°	456.9	448.9	423.9	395.9	382.9	399.9	424.9	413.9	386.9	378.9	349.9
37.5°	549.9	537.9	503.9	454.9	413.9	418.9	452.9	444.9	411.9	416.9	382.9
40°	633.9	618.9	588.9	530.9	461.9	440.9	479.9	477.9	440.9	457.9	422.9
42.5°	689.9	677.9	655.9	605.9	527.9	471.9	501.9	511.9	473.9	505.9	462.9
45°	700.9	689.9	680.9	653.9	595.9	521.9	521.9	544.9	506.9	551.9	502.9
47.5°	673.9	665.9	670.9	667.9	639.9	572.9	546.9	575.9	538.9	604.9	545.9
50°	606.9	606.9	633.9	651.9	652.9	617.9	579.9	602.9	575.9	654.9	593.9
52.5°	472.9	476.9	548.9	605.9	635.9	640.9	619.9	627.9	612.9	711.9	641.9
55°	360.9	361.9	414.9	523.9	594.9	635.9	658.9	648.9	646.9	767.9	692.9
57.5°	314.9	311.9	330.9	403.9	514.9	609.9	680.9	673.9	671.9	821.8	747.9
60°	276.9	274.9	288.9	321.9	414.9	560.9	673.9	703.9	692.9	873.8	800.8
62.5°	211.0	210.0	232.0	270.9	334.9	482.9	656.9	731.9	709.9	931.8	857.8
65°	123.0	124.0	147.0	200.0	267.9	382.9	623.9	752.9	724.9	986.8	914.8
67.5°	51.0	53.0	71.0	117.0	191.0	293.9	542.9	758.9	737.9	1055.8	977.8
69°	35.0	35.0	45.0	75.0	143.0	249.0	482.9	734.9	742.9	1083.8	989.8
70°	29.0	30.0	35.0	54.0	111.0	215.0	430.9	700.9	737.9	1071.8	964.8
72.5°	20.0	20.0	24.0	29.0	51.0	123.0	284.9	535.9	648.9	915.8	791.8
75°	16.0	15.0	19.0	22.0	27.0	54.0	130.0	309.9	436.9	563.9	443.9
77.5°	12.0	12.0	14.0	16.0	19.0	26.0	36.0	110.0	197.0	201.0	147.0
80°	8.0	8.0	10.0	12.0	16.0	18.0	11.0	22.0	41.0	28.0	18.0
82.5°	4.0	4.0	7.0	10.0	12.0	9.0	6.0	7.0	8.0	6.0	5.0
85°	1.0	1.0	5.0	7.0	6.0	3.0	3.0	3.0	3.0	2.0	2.0
87.5°	0.0	0.0	2.0	3.0	1.0	0.0	1.0	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0	133.0
2.5°	133.0	128.0	117.0	107.0	99.0	90.0	82.0	77.0	73.0	71.0	70.0
5°	134.0	123.0	102.0	81.0	62.0	48.0	38.0	32.0	28.0	27.0	28.0
7.5°	136.0	119.0	87.0	56.0	35.0	25.0	22.0	20.0	19.0	19.0	19.0
10°	139.0	116.0	71.0	37.0	23.0	20.0	18.0	17.0	16.0	16.0	16.0
12.5°	144.0	114.0	56.0	26.0	19.0	18.0	16.0	15.0	14.0	14.0	14.0
15°	149.0	112.0	44.0	21.0	17.0	16.0	14.0	13.0	12.0	12.0	12.0
17.5°	157.0	111.0	35.0	19.0	16.0	14.0	12.0	10.0	10.0	9.0	9.0
20°	168.0	110.0	28.0	17.0	15.0	12.0	10.0	8.0	8.0	7.0	7.0
22.5°	180.0	110.0	24.0	16.0	13.0	10.0	8.0	6.0	6.0	6.0	6.0
25°	192.0	109.0	20.0	14.0	11.0	8.0	6.0	5.0	4.0	4.0	4.0
27.5°	204.0	107.0	17.0	12.0	9.0	7.0	5.0	4.0	4.0	3.0	3.0
30°	216.0	104.0	15.0	11.0	7.0	6.0	4.0	3.0	3.0	3.0	3.0
32.5°	228.0	101.0	14.0	9.0	6.0	4.0	3.0	2.0	2.0	2.0	2.0
35°	243.0	97.0	13.0	8.0	5.0	4.0	2.0	2.0	2.0	2.0	2.0
37.5°	258.0	93.0	11.0	7.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0
40°	275.9	90.0	10.0	6.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0
42.5°	297.9	88.0	9.0	5.0	3.0	2.0	1.0	0.0	0.0	1.0	1.0
45°	321.9	87.0	8.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
47.5°	346.9	86.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
50°	376.9	86.0	7.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
52.5°	404.9	86.0	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
55°	432.9	84.0	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	462.9	81.0	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	493.9	76.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	526.9	67.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	553.9	55.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	573.9	43.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	551.9	34.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	515.9	29.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	369.9	15.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	165.0	9.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	48.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.0	3.0	1.0	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	1.0	0.0	0.0	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)