

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: STREETWORKS

Report Number: P459581

Luminaire Tested: **ARCH-S-PA1-30-AMB-U-T3**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-AMB-U-T3
Description: ARCHEON ROADWAY AND AREA 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: 1302 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

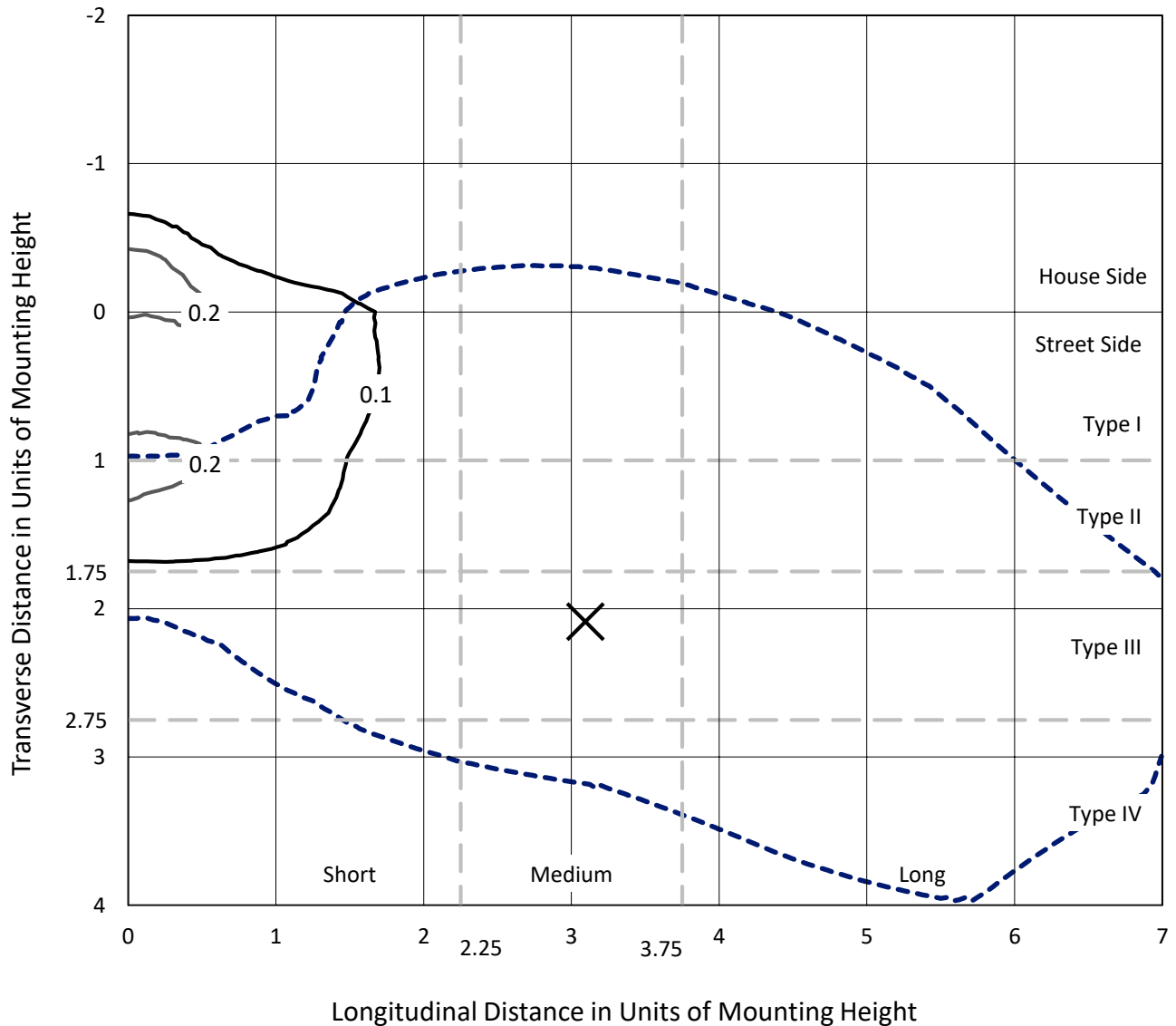
Input Watts (W): 32
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

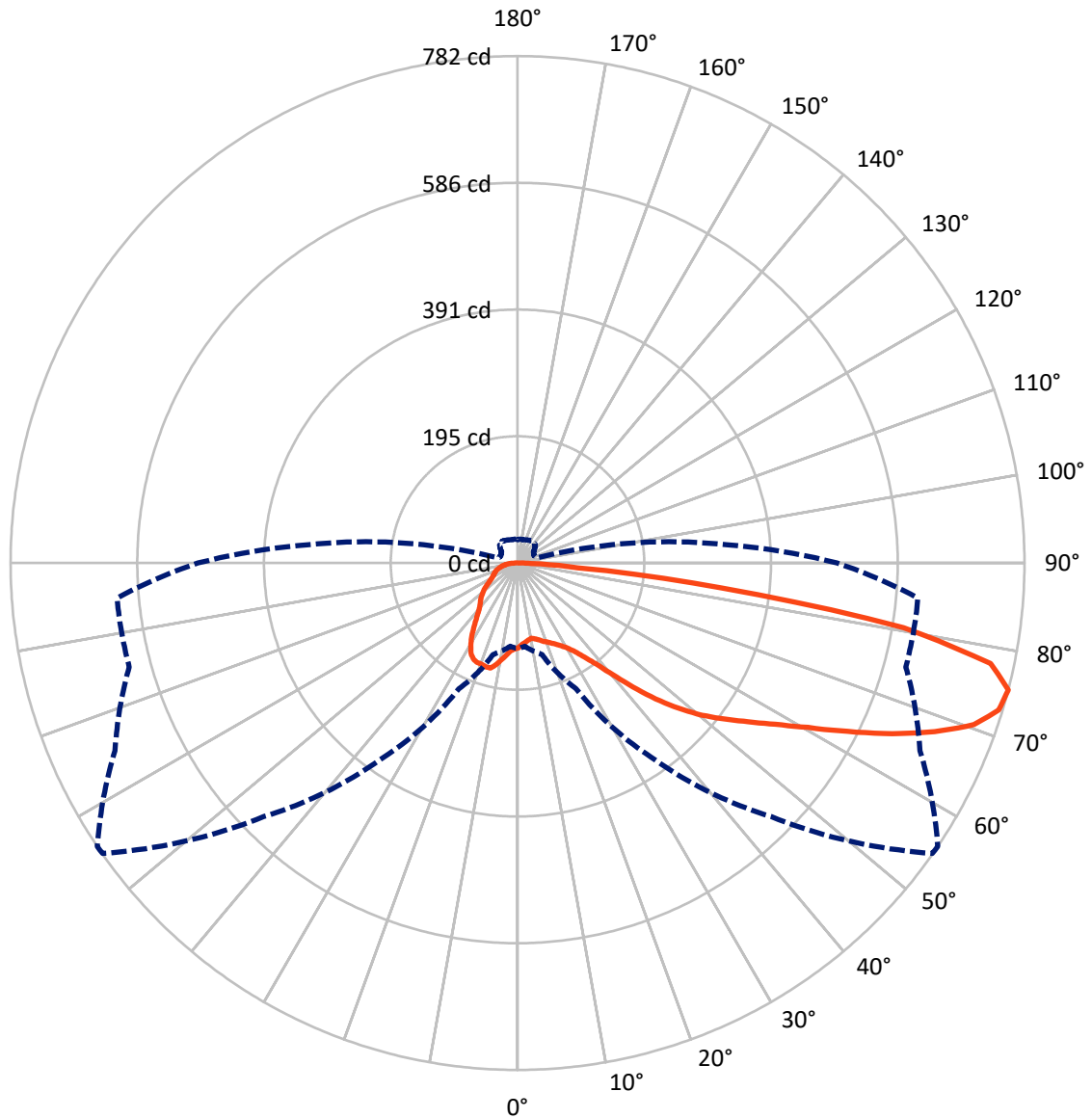


Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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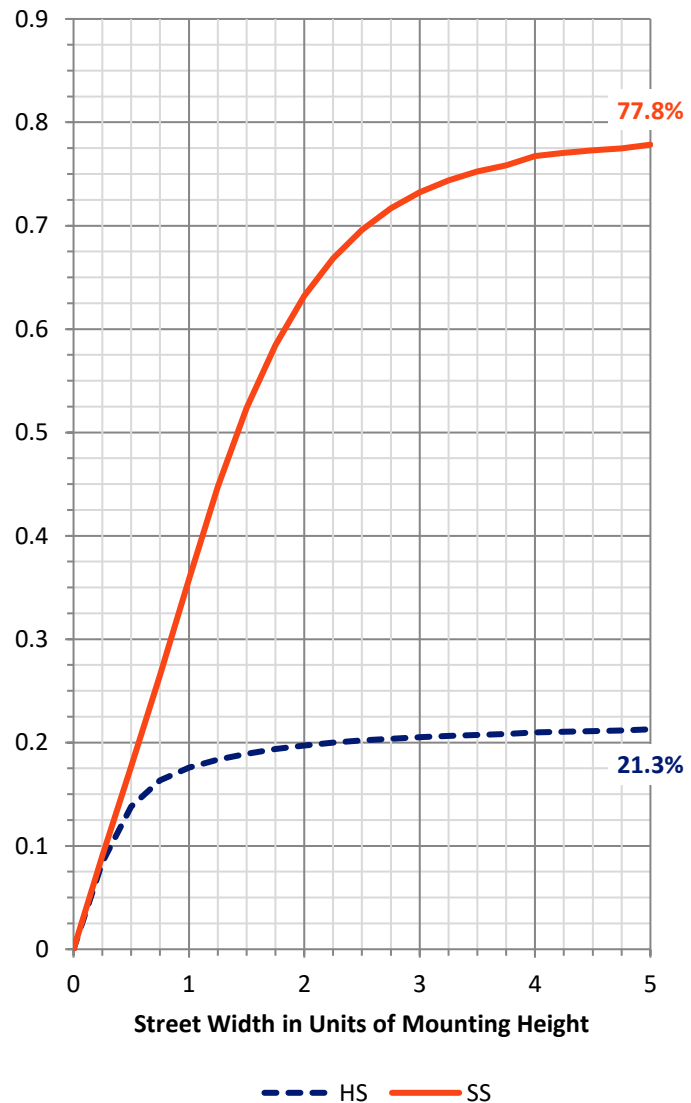
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	284.4	0.0	284.4
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	1017.7	0.0	1017.7
	% Fixture	78.2	0.0	78.2
Total	Lumens	1302.0	0.0	1302.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	1.0
10°-20°	40.4	3.1
20°-30°	69.6	5.3
30°-40°	101.0	7.8
40°-50°	166.1	12.8
50°-60°	257.5	19.8
60°-70°	323.8	24.9
70°-80°	268.2	20.6
80°-90°	62.8	4.8
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°	1302.0	100.0
0°-180°	1302.0	100.0



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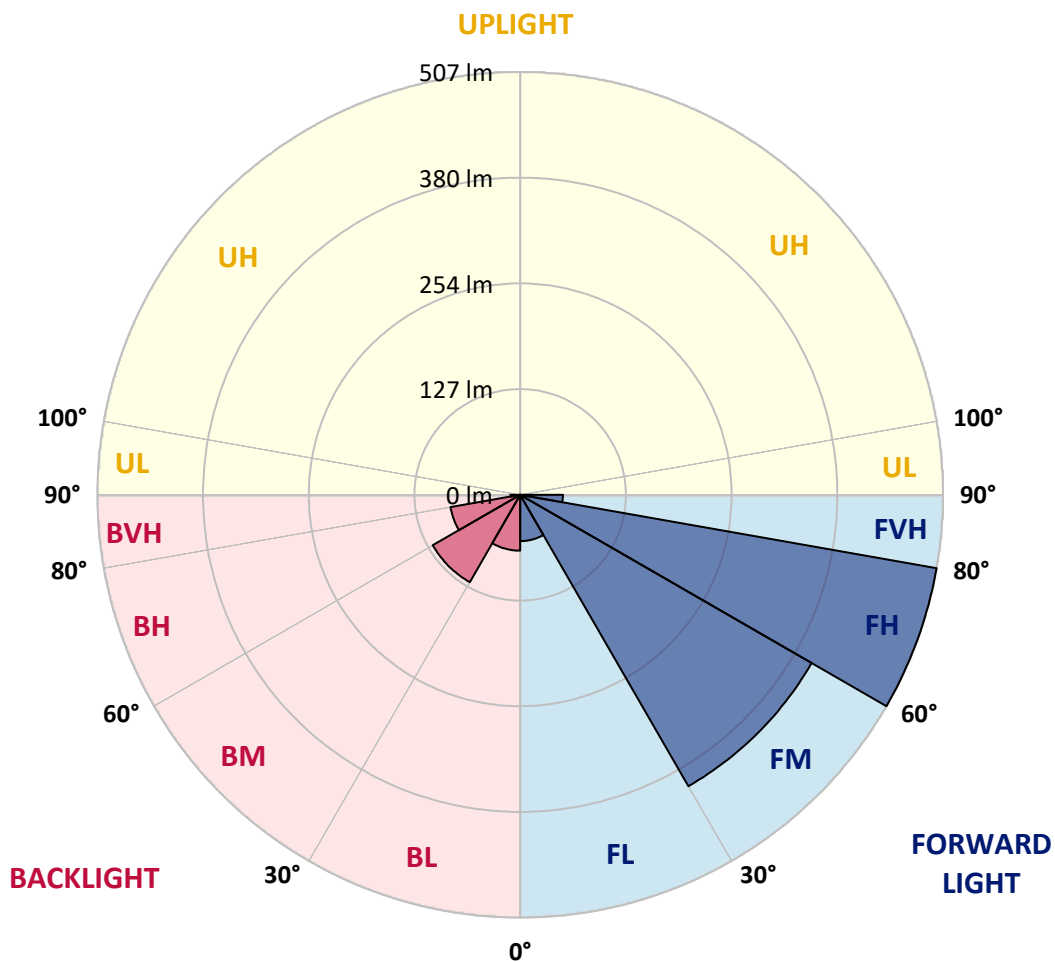
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	55.6	4.3			
FM	(30°-60°)	403.6	31.0			
FH	(60°-80°)	507.2	39.0			G0/660
FVH	(80°-90°)	51.2	3.9			G1/100
BL	(0°-30°)	67.0	5.1	B0/110		
BM	(30°-60°)	121.0	9.3	B0/220		
BH	(60°-80°)	84.8	6.5	B0/110		G0/110
BVH	(80°-90°)	11.6	0.9			G1/100
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
2.5°	125.0	125.0	125.0	125.0	126.0	126.0	126.0	126.0	127.0	127.0	128.0
5°	116.0	116.0	117.0	118.0	119.0	121.0	123.0	123.0	125.0	126.0	128.0
7.5°	112.0	112.0	113.0	114.0	115.0	116.0	120.0	120.0	123.0	127.0	130.0
10°	109.0	110.0	110.0	112.0	113.0	115.0	118.0	118.0	123.0	129.0	133.0
12.5°	109.0	109.0	109.0	110.0	111.0	114.0	120.0	120.0	125.0	133.0	138.0
15°	109.0	109.0	108.0	108.0	110.0	115.0	123.0	123.0	130.0	138.0	145.0
17.5°	108.0	108.0	107.0	107.0	110.0	116.0	126.0	127.0	135.0	145.0	152.0
20°	107.0	107.0	106.0	107.0	111.0	118.0	129.0	130.0	141.0	151.0	158.0
22.5°	111.0	110.0	108.0	109.0	113.0	121.0	133.0	134.0	147.0	158.0	165.0
25°	127.0	125.0	120.0	118.0	119.0	125.0	138.0	139.0	154.0	165.0	171.0
27.5°	147.0	145.0	140.0	135.0	130.0	133.0	144.0	145.0	162.0	173.0	178.0
30°	168.0	166.0	162.0	155.0	147.0	144.0	151.0	152.0	171.0	182.0	185.0
32.5°	187.0	186.0	180.0	174.0	168.0	161.0	163.0	163.0	179.0	190.0	192.0
35°	211.0	215.0	208.0	195.0	188.0	182.0	178.0	178.0	191.0	202.0	200.0
37.5°	235.0	239.0	243.0	221.0	211.0	204.0	199.0	198.0	207.0	216.0	211.0
40°	277.0	276.0	273.0	255.0	242.0	233.0	226.0	226.0	228.0	234.0	226.0
42.5°	337.9	341.9	322.9	303.9	283.0	273.0	263.0	261.0	251.0	257.0	244.0
45°	412.9	409.9	390.9	360.9	335.9	318.9	303.9	298.9	278.0	283.0	266.0
47.5°	467.9	459.9	445.9	417.9	405.9	374.9	341.9	334.9	303.9	309.9	293.9
50°	516.9	500.9	482.9	464.9	468.9	443.9	377.9	368.9	331.9	342.9	322.9
52.5°	540.9	506.9	502.9	500.9	506.9	503.9	409.9	399.9	366.9	381.9	355.9
55°	506.9	503.9	510.9	522.9	539.9	538.9	441.9	431.9	409.9	423.9	392.9
57.5°	478.9	485.9	509.9	536.9	579.9	572.9	475.9	468.9	459.9	467.9	432.9
60°	458.9	464.9	501.9	549.9	611.9	601.9	521.9	514.9	512.9	512.9	476.9
62.5°	420.9	422.9	471.9	552.9	617.9	630.9	572.9	571.9	569.9	557.9	525.9
65°	373.9	372.9	422.9	533.9	622.9	655.9	636.9	634.9	626.9	601.9	584.9
67.5°	321.9	323.9	365.9	480.9	607.9	670.9	694.9	693.9	674.9	638.9	642.9
70°	284.0	284.0	310.9	415.9	570.9	671.9	743.9	746.9	708.9	652.9	674.9
72.5°	224.0	222.0	246.0	330.9	499.9	647.9	775.9	775.9	705.9	642.9	672.9
75°	132.0	129.0	146.0	214.0	370.9	552.9	780.9	781.9	684.9	619.9	619.9
77.5°	53.0	51.0	64.0	99.0	211.0	390.9	733.9	745.9	666.9	592.9	513.9
80°	23.0	22.0	29.0	41.0	94.0	183.0	582.9	603.9	579.9	521.9	360.9
82.5°	15.0	15.0	20.0	24.0	51.0	55.0	314.9	316.9	392.9	380.9	184.0
85°	16.0	16.0	17.0	16.0	33.0	23.0	88.0	93.0	175.0	201.0	54.0
87.5°	9.0	8.0	19.0	9.0	18.0	10.0	20.0	21.0	35.0	36.0	11.0
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°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
2.5°	129.0	129.0	130.0	131.0	133.0	134.0	136.0	136.0	138.0	137.0	138.0
5°	129.0	130.0	131.0	134.0	136.0	139.0	142.0	144.0	146.0	147.0	147.0
7.5°	131.0	133.0	136.0	140.0	144.0	146.0	149.0	152.0	155.0	157.0	158.0
10°	135.0	137.0	141.0	146.0	152.0	156.0	160.0	162.0	163.0	164.0	164.0
12.5°	140.0	143.0	149.0	155.0	161.0	164.0	162.0	161.0	162.0	163.0	164.0
15°	147.0	151.0	157.0	163.0	168.0	163.0	163.0	166.0	169.0	170.0	171.0
17.5°	155.0	157.0	164.0	170.0	167.0	165.0	169.0	172.0	173.0	173.0	173.0
20°	161.0	164.0	170.0	172.0	165.0	168.0	171.0	172.0	171.0	171.0	170.0
22.5°	168.0	170.0	174.0	169.0	165.0	167.0	167.0	166.0	165.0	165.0	165.0
25°	174.0	175.0	176.0	165.0	163.0	161.0	158.0	157.0	155.0	154.0	155.0
27.5°	179.0	180.0	175.0	162.0	157.0	149.0	145.0	142.0	142.0	142.0	142.0
30°	184.0	182.0	174.0	157.0	145.0	133.0	127.0	126.0	128.0	129.0	129.0
32.5°	189.0	185.0	172.0	151.0	131.0	114.0	110.0	110.0	113.0	113.0	114.0
35°	196.0	190.0	172.0	142.0	115.0	98.0	95.0	94.0	94.0	95.0	95.0
37.5°	205.0	197.0	173.0	132.0	101.0	86.0	83.0	80.0	78.0	75.0	75.0
40°	217.0	206.0	172.0	122.0	90.0	78.0	73.0	69.0	66.0	62.0	62.0
42.5°	232.0	220.0	173.0	112.0	83.0	72.0	66.0	62.0	58.0	54.0	53.0
45°	253.0	236.0	173.0	103.0	79.0	68.0	62.0	57.0	54.0	51.0	50.0
47.5°	276.0	255.0	172.0	96.0	74.0	65.0	58.0	53.0	51.0	47.0	47.0
50°	302.9	278.0	169.0	92.0	68.0	61.0	55.0	50.0	46.0	45.0	44.0
52.5°	334.9	306.9	166.0	85.0	62.0	57.0	52.0	47.0	46.0	44.0	44.0
55°	374.9	337.9	166.0	76.0	55.0	55.0	49.0	47.0	49.0	44.0	44.0
57.5°	424.9	367.9	162.0	64.0	49.0	52.0	49.0	49.0	52.0	44.0	43.0
60°	482.9	399.9	145.0	54.0	45.0	49.0	51.0	50.0	50.0	46.0	43.0
62.5°	541.9	435.9	114.0	47.0	42.0	48.0	51.0	48.0	45.0	45.0	45.0
65°	592.9	464.9	75.0	43.0	40.0	47.0	51.0	46.0	43.0	45.0	44.0
67.5°	615.9	474.9	51.0	39.0	38.0	46.0	48.0	44.0	41.0	46.0	45.0
70°	599.9	454.9	40.0	35.0	36.0	44.0	46.0	42.0	40.0	45.0	43.0
72.5°	557.9	404.9	34.0	32.0	33.0	41.0	44.0	41.0	39.0	41.0	39.0
75°	492.9	323.9	30.0	28.0	30.0	39.0	41.0	39.0	37.0	37.0	36.0
77.5°	373.9	204.0	25.0	25.0	26.0	35.0	38.0	37.0	34.0	33.0	33.0
80°	230.0	93.0	21.0	22.0	23.0	32.0	35.0	34.0	32.0	31.0	30.0
82.5°	110.0	33.0	17.0	18.0	19.0	29.0	32.0	31.0	29.0	31.0	26.0
85°	31.0	18.0	12.0	14.0	15.0	23.0	27.0	28.0	26.0	24.0	23.0
87.5°	11.0	11.0	7.0	9.0	10.0	18.0	21.0	22.0	22.0	19.0	18.0
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)