

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: P459577

Luminaire Tested: **ARCH-S-PA1-30-AMB-U-T2R**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-4)
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-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1281 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

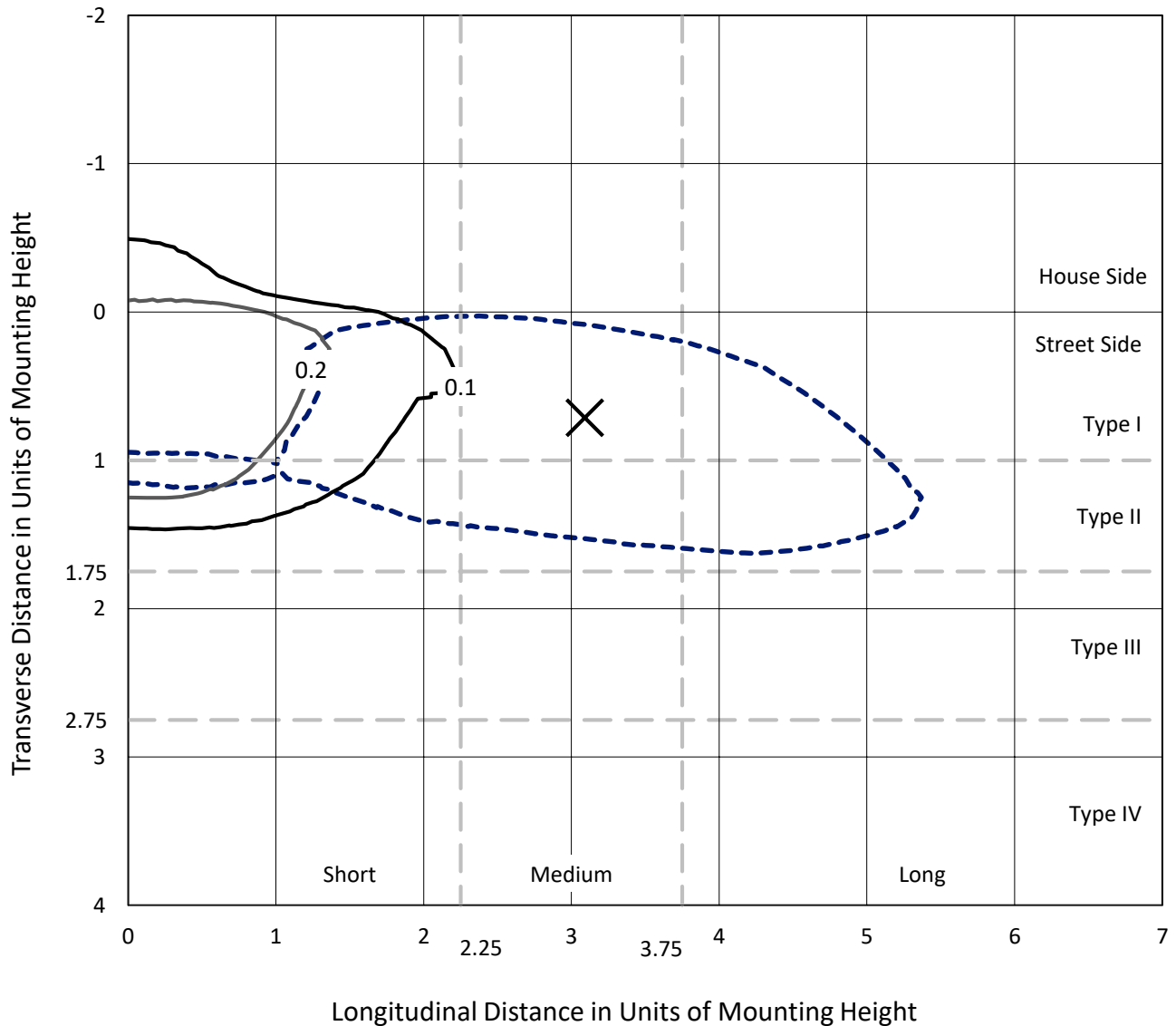


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

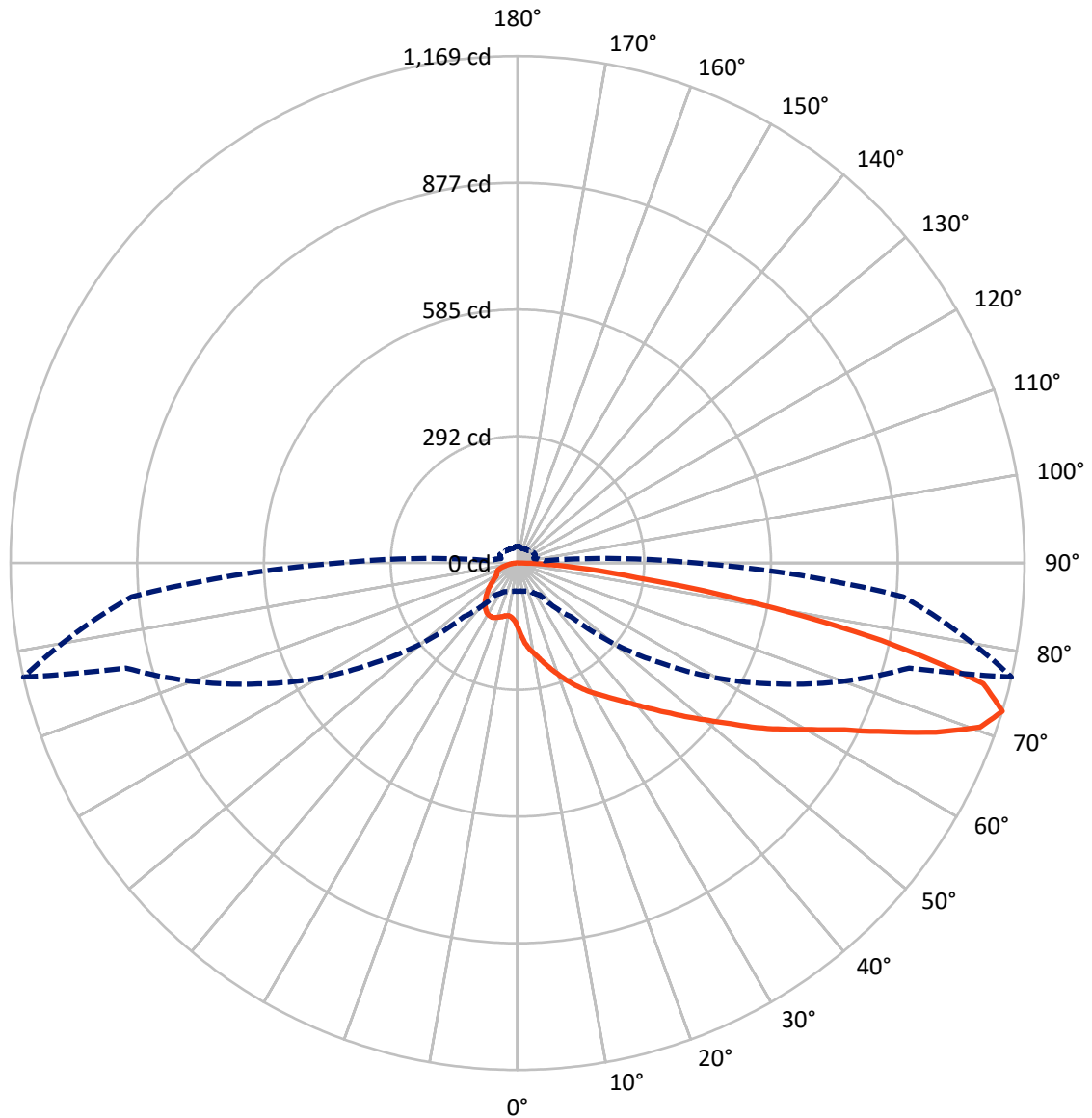


Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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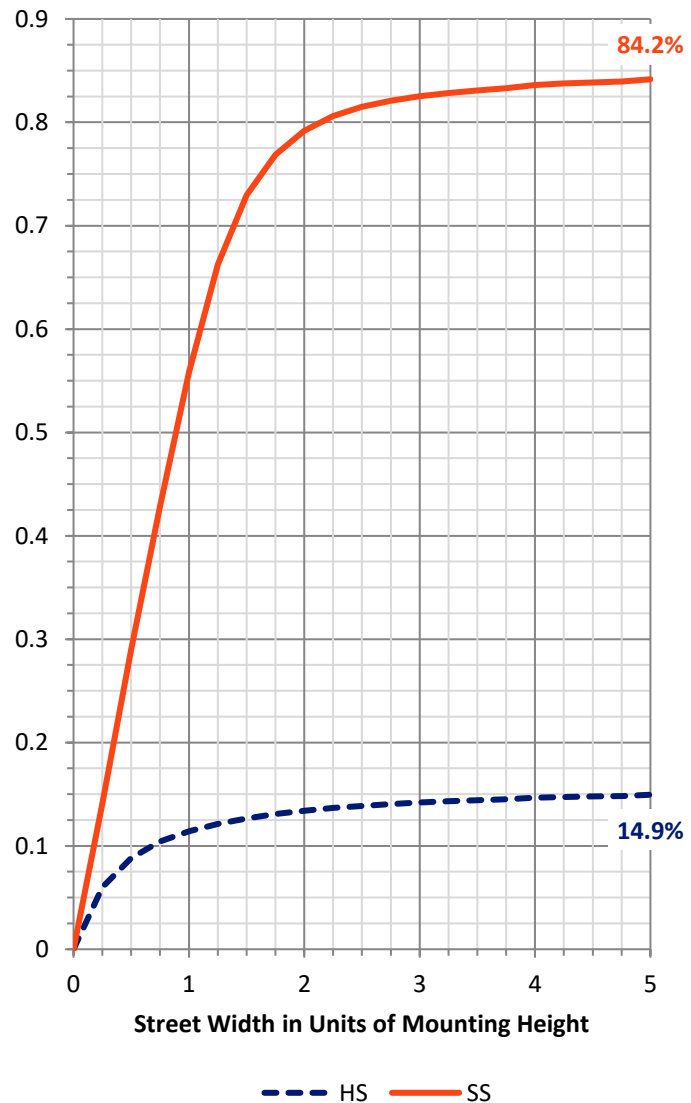
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.1	0.0	197.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	1083.9	0.0	1083.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	1281.0	0.0	1281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	1.2
10°-20°	54.6	4.3
20°-30°	94.0	7.3
30°-40°	146.2	11.4
40°-50°	223.4	17.4
50°-60°	265.1	20.7
60°-70°	254.1	19.8
70°-80°	184.8	14.4
80°-90°	42.6	3.3
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°	1281.0	100.0
0°-180°	1281.0	100.0

Coefficient of Utilization



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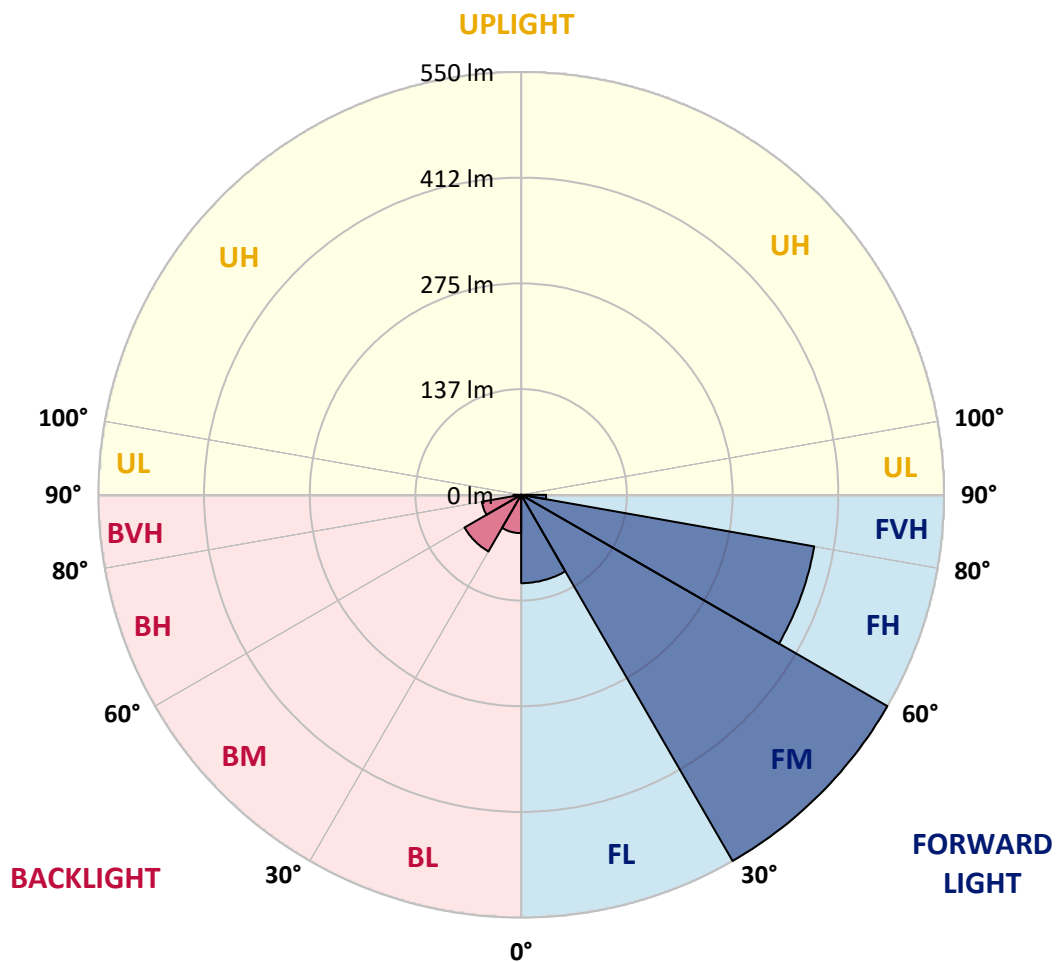
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.8	9.0			
FM (30°-60°)	549.7	42.9			
FH (60°-80°)	386.9	30.2			G0/660
FVH (80°-90°)	32.5	2.5			G1/100
BL (0°-30°)	49.8	3.9	B0/110		
BM (30°-60°)	85.1	6.6	B0/220		
BH (60°-80°)	52.0	4.1	B0/110		G0/110
BVH (80°-90°)	10.2	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	202.0	202.0	201.0	198.0	196.0	193.0	188.0	182.0	170.0	167.0	156.0
5°	227.0	226.0	226.0	222.0	219.0	214.0	208.0	201.0	189.0	186.0	166.0
7.5°	246.1	246.1	246.1	243.1	241.1	236.0	227.0	216.0	203.0	200.0	177.0
10°	256.1	257.1	257.1	257.1	257.1	253.1	247.1	233.0	215.0	212.0	189.0
12.5°	258.1	259.1	262.1	267.1	270.1	270.1	266.1	253.1	230.0	226.0	201.0
15°	248.1	249.1	253.1	262.1	273.1	283.1	284.1	273.1	247.1	242.1	214.0
17.5°	247.1	249.1	252.1	260.1	269.1	285.1	297.1	291.1	266.1	259.1	227.0
20°	248.1	249.1	252.1	261.1	275.1	286.1	301.1	305.1	285.1	276.1	239.0
22.5°	253.1	254.1	256.1	264.1	280.1	293.1	304.1	315.1	302.1	295.1	254.1
25°	265.1	266.1	267.1	271.1	286.1	304.1	312.1	322.1	318.1	313.1	268.1
27.5°	278.1	278.1	278.1	282.1	294.1	315.1	325.1	328.1	333.1	331.1	285.1
30°	310.1	311.1	305.1	296.1	304.1	325.1	339.1	334.1	347.1	348.1	299.1
32.5°	357.1	355.1	342.1	326.1	318.1	335.1	355.1	346.1	360.1	365.1	315.1
35°	419.1	415.1	399.1	369.1	346.1	347.1	372.1	363.1	374.1	385.1	332.1
37.5°	480.1	477.1	456.1	423.1	387.1	368.1	391.1	384.1	390.1	407.1	352.1
40°	529.1	526.1	514.1	479.1	433.1	400.1	408.1	407.1	408.1	433.1	372.1
42.5°	570.1	567.1	554.1	523.1	482.1	438.1	433.1	433.1	431.1	462.1	395.1
45°	595.1	592.1	586.1	562.1	522.1	479.1	463.1	461.1	456.1	494.1	421.1
47.5°	600.1	600.1	604.1	592.1	551.1	517.1	496.1	488.1	485.1	531.1	453.1
50°	575.1	580.1	600.1	609.1	574.1	547.1	529.1	518.1	516.1	570.1	489.1
52.5°	461.1	477.1	541.1	588.1	589.1	564.1	560.1	547.1	553.1	615.1	535.1
55°	346.1	356.1	423.1	521.1	582.1	575.1	585.1	582.1	598.1	670.1	581.1
57.5°	282.1	291.1	319.1	424.1	533.1	580.1	609.1	611.1	635.1	723.2	627.1
60°	231.0	237.0	254.1	325.1	451.1	562.1	626.1	638.1	673.1	779.2	677.1
62.5°	178.0	183.0	200.0	246.1	360.1	520.1	639.1	666.1	714.1	847.2	736.2
65°	131.0	135.0	150.0	181.0	272.1	445.1	632.1	698.1	766.2	937.2	809.2
67.5°	99.0	101.0	110.0	132.0	190.0	364.1	590.1	730.2	829.2	1041.2	876.2
70°	77.0	79.0	83.0	96.0	130.0	264.1	511.1	715.1	888.2	1132.2	923.2
72.5°	65.0	65.0	67.0	73.0	90.0	176.0	400.1	660.1	935.2	1169.2	893.2
75°	54.0	55.0	55.0	58.0	66.0	119.0	288.1	566.1	932.2	1109.2	771.2
77.5°	46.0	46.0	46.0	48.0	52.0	85.0	189.0	433.1	804.2	858.2	525.1
80°	39.0	38.0	38.0	39.0	43.0	63.0	120.0	283.1	538.1	539.1	286.1
82.5°	27.0	30.0	31.0	31.0	36.0	46.0	76.0	155.0	285.1	277.1	137.0
85°	17.0	18.0	23.0	24.0	30.0	26.0	46.0	79.0	134.0	135.0	47.0
87.5°	6.0	5.0	13.0	14.0	20.0	11.0	23.0	27.0	56.0	53.0	13.0
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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	150.0	143.0	134.0	127.0	123.0	118.0	115.0	111.0	110.0	110.0	111.0
5°	153.0	141.0	126.0	115.0	110.0	107.0	107.0	107.0	107.0	107.0	107.0
7.5°	157.0	141.0	121.0	111.0	109.0	109.0	110.0	112.0	113.0	114.0	114.0
10°	162.0	142.0	118.0	111.0	111.0	113.0	116.0	119.0	120.0	122.0	121.0
12.5°	170.0	145.0	119.0	114.0	115.0	118.0	121.0	123.0	125.0	126.0	126.0
15°	179.0	149.0	121.0	117.0	118.0	121.0	124.0	127.0	128.0	130.0	129.0
17.5°	189.0	154.0	124.0	119.0	121.0	123.0	124.0	126.0	127.0	127.0	126.0
20°	199.0	159.0	126.0	121.0	121.0	121.0	120.0	118.0	117.0	116.0	116.0
22.5°	210.0	166.0	128.0	121.0	118.0	115.0	111.0	107.0	105.0	105.0	104.0
25°	223.0	173.0	129.0	118.0	113.0	107.0	101.0	96.0	93.0	92.0	91.0
27.5°	235.0	179.0	128.0	115.0	107.0	99.0	90.0	84.0	81.0	81.0	81.0
30°	248.1	184.0	125.0	110.0	99.0	89.0	80.0	75.0	72.0	71.0	71.0
32.5°	258.1	187.0	121.0	104.0	91.0	80.0	73.0	69.0	64.0	62.0	62.0
35°	271.1	189.0	114.0	96.0	83.0	73.0	69.0	63.0	58.0	56.0	56.0
37.5°	284.1	189.0	108.0	89.0	76.0	70.0	67.0	57.0	53.0	51.0	51.0
40°	298.1	187.0	100.0	81.0	69.0	69.0	62.0	53.0	46.0	45.0	45.0
42.5°	313.1	183.0	91.0	73.0	64.0	65.0	59.0	49.0	45.0	44.0	43.0
45°	329.1	177.0	83.0	64.0	58.0	57.0	52.0	49.0	46.0	47.0	47.0
47.5°	348.1	169.0	74.0	57.0	54.0	52.0	49.0	45.0	44.0	45.0	46.0
50°	370.1	157.0	67.0	52.0	51.0	48.0	46.0	44.0	43.0	44.0	43.0
52.5°	398.1	141.0	60.0	48.0	48.0	43.0	42.0	42.0	42.0	42.0	42.0
55°	427.1	124.0	54.0	46.0	46.0	41.0	41.0	41.0	41.0	41.0	41.0
57.5°	454.1	108.0	50.0	45.0	44.0	40.0	40.0	40.0	40.0	41.0	41.0
60°	480.1	95.0	47.0	44.0	43.0	39.0	39.0	39.0	39.0	40.0	40.0
62.5°	505.1	87.0	46.0	44.0	42.0	39.0	39.0	39.0	39.0	41.0	40.0
65°	528.1	81.0	46.0	45.0	41.0	39.0	39.0	39.0	39.0	41.0	40.0
67.5°	530.1	75.0	45.0	46.0	41.0	39.0	39.0	39.0	38.0	41.0	40.0
70°	496.1	70.0	43.0	47.0	43.0	39.0	38.0	38.0	37.0	41.0	39.0
72.5°	412.1	63.0	39.0	45.0	43.0	39.0	37.0	36.0	35.0	39.0	37.0
75°	288.1	53.0	33.0	41.0	42.0	39.0	35.0	34.0	33.0	35.0	33.0
77.5°	174.0	43.0	27.0	35.0	38.0	39.0	33.0	32.0	30.0	31.0	30.0
80°	104.0	32.0	21.0	29.0	33.0	39.0	31.0	29.0	26.0	26.0	25.0
82.5°	64.0	22.0	15.0	22.0	27.0	36.0	30.0	25.0	22.0	22.0	20.0
85°	30.0	14.0	10.0	16.0	20.0	30.0	27.0	21.0	18.0	24.0	19.0
87.5°	8.0	7.0	6.0	9.0	13.0	15.0	24.0	14.0	15.0	14.0	12.0
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)