

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: P459576

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-5)
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-HSS
Description: ARCHEON ROADWAY AND AREA 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: 1015 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G0

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

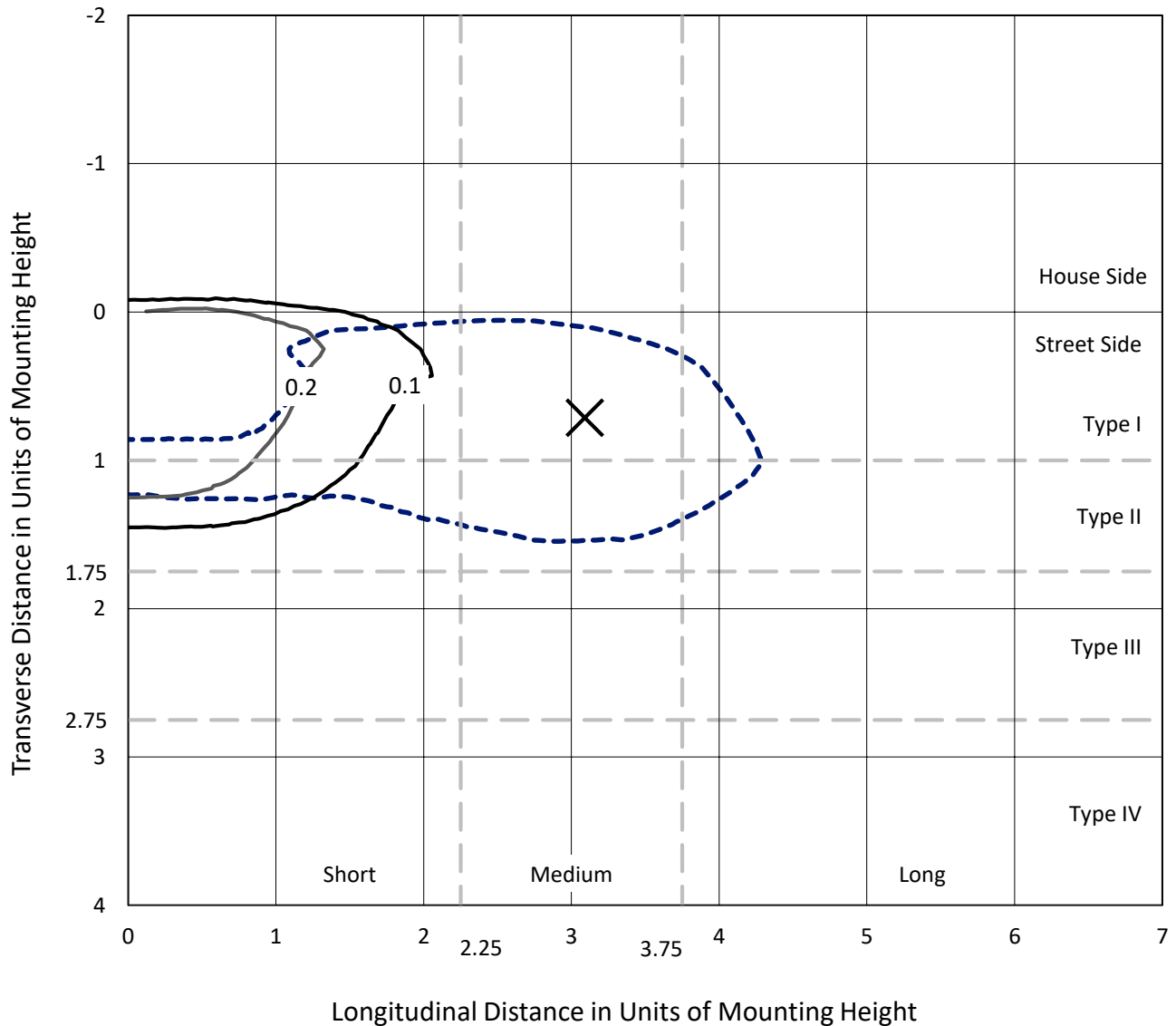


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Iso-Footcandle Lines of Horizontal Illumination

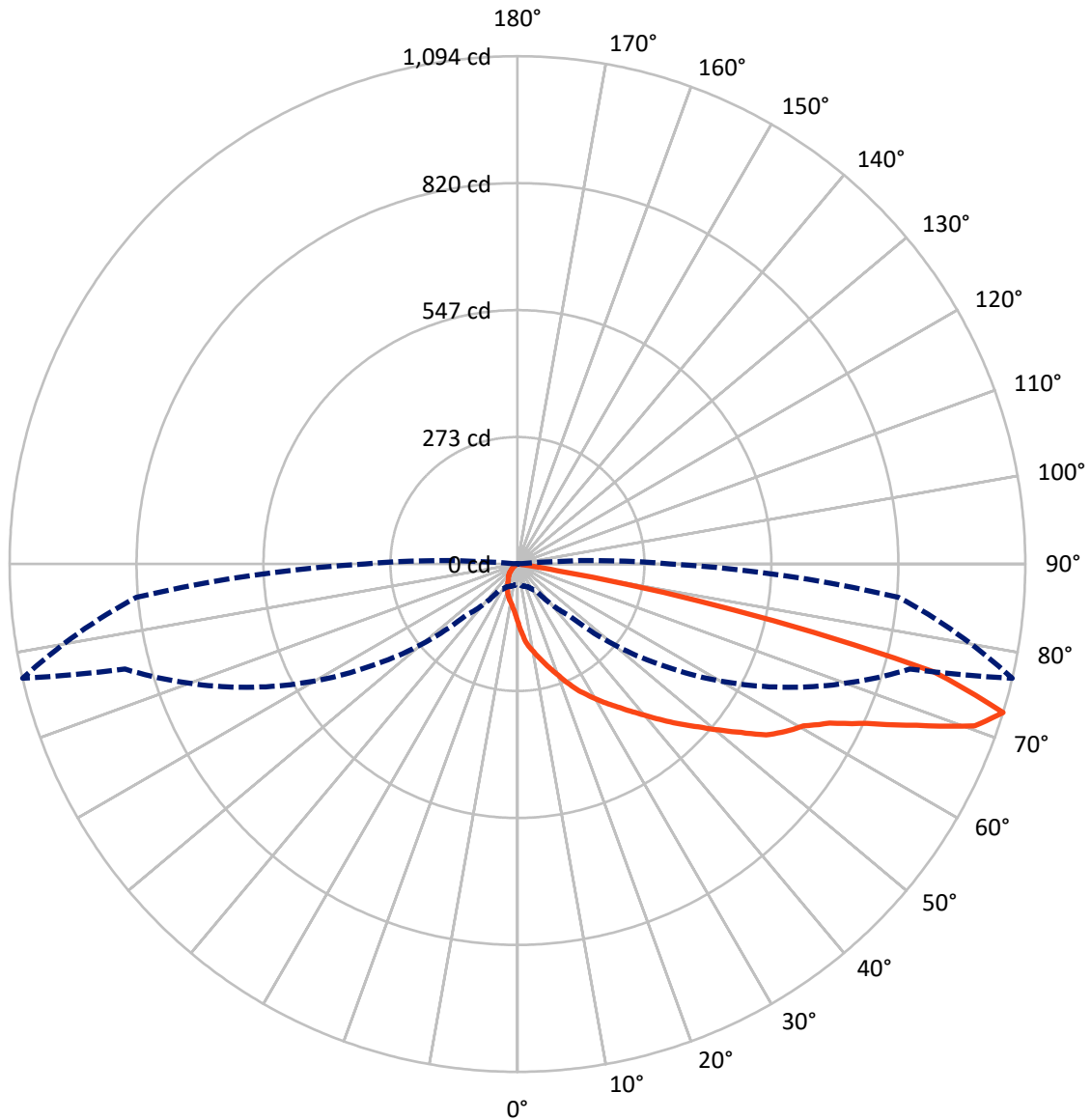
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type II - Medium - Semi-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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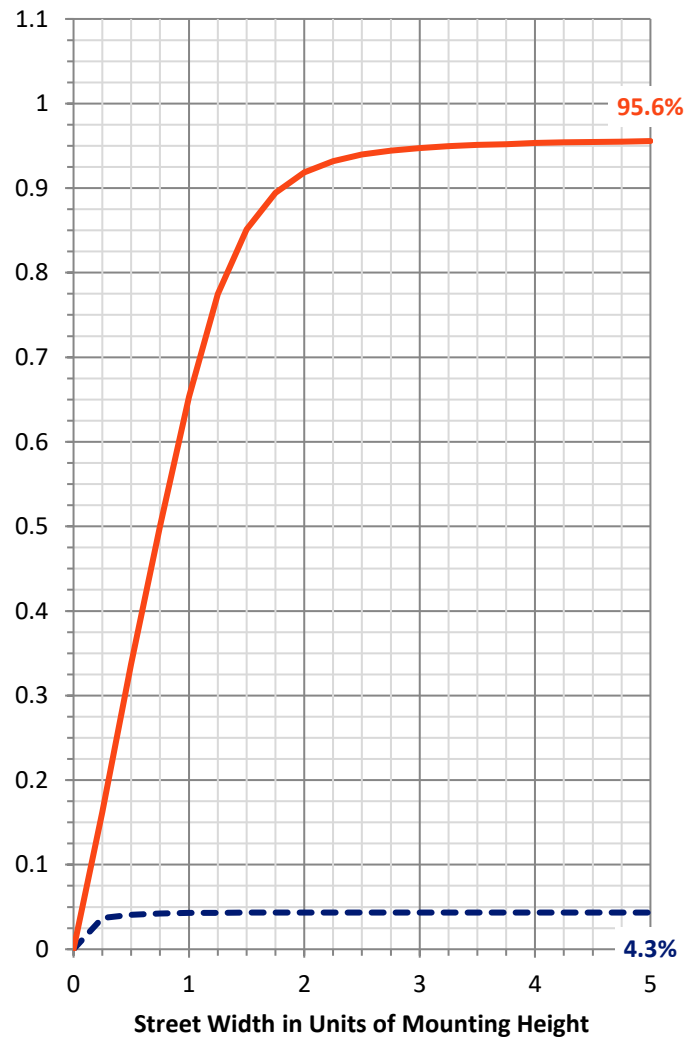
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	44.2	0.0	44.2
	% Fixture	4.3	0.0	4.3
Street Side	Lumens	970.9	0.0	970.9
	% Fixture	95.7	0.0	95.7
Total	Lumens	1015.0	0.0	1015.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	1.2
10°-20°	39.6	3.9
20°-30°	70.8	7.0
30°-40°	120.3	11.9
40°-50°	196.4	19.3
50°-60°	234.7	23.1
60°-70°	209.1	20.6
70°-80°	127.1	12.5
80°-90°	4.7	0.5
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°	1015.0	100.0
0°-180°	1015.0	100.0



--- HS — SS

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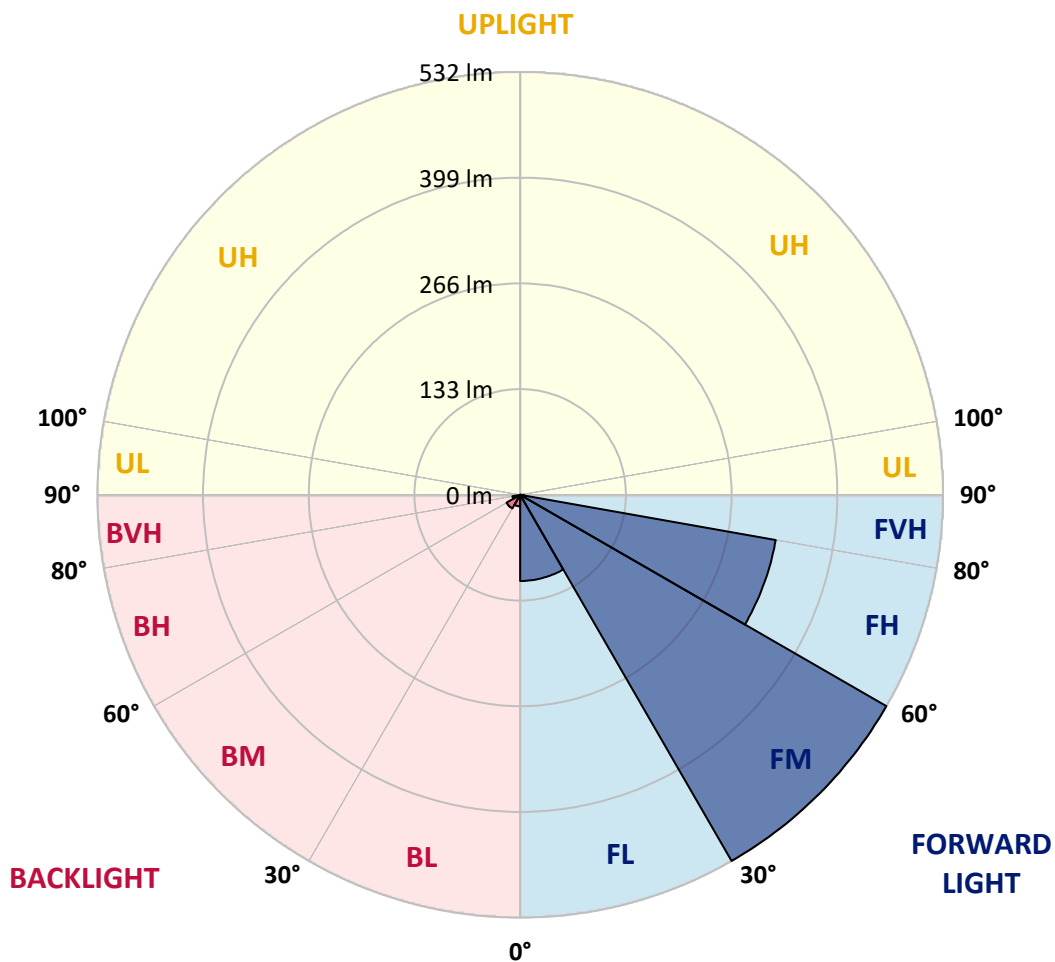
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.3	10.7			
FM	(30°-60°)	531.6	52.4			
FH	(60°-80°)	326.3	32.1			G0/660
FVH	(80°-90°)	4.6	0.5			G0/10
BL	(0°-30°)	14.5	1.4	B0/110		
BM	(30°-60°)	19.7	1.9	B0/220		
BH	(60°-80°)	9.9	1.0	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°	77°	85°
0°	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
2.5°	183.0	181.0	181.0	178.0	176.0	172.0	167.0	159.0	145.0	143.0	133.0
5°	210.0	209.0	208.0	203.0	200.0	196.0	189.0	180.0	168.0	164.0	142.0
7.5°	230.0	229.0	228.0	227.0	224.0	218.0	209.0	197.0	183.0	180.0	154.0
10°	240.0	240.0	240.0	241.0	239.0	236.0	229.0	214.0	196.0	192.0	165.0
12.5°	243.0	244.0	246.0	252.0	253.0	254.0	247.0	233.0	211.0	207.0	178.0
15°	235.0	237.0	240.0	247.0	258.0	269.0	269.0	254.0	228.0	223.0	192.0
17.5°	234.0	235.0	239.0	246.0	256.0	272.0	282.0	275.0	246.0	240.0	205.0
20°	235.0	235.0	239.0	247.0	259.0	274.0	288.0	291.0	267.0	258.0	220.0
22.5°	239.0	240.0	243.0	251.0	267.0	280.0	291.0	302.0	287.0	279.0	234.0
25°	250.0	250.0	252.0	257.0	273.0	291.0	300.0	310.0	305.0	300.0	249.0
27.5°	265.0	263.0	265.0	270.0	281.0	303.0	312.0	316.0	322.0	319.0	267.0
30°	296.0	295.0	289.0	282.0	291.0	313.0	328.0	323.0	337.0	339.0	281.0
32.5°	338.0	337.0	329.0	311.0	304.0	323.0	345.0	337.0	352.0	359.0	297.0
35°	400.0	399.0	385.0	354.0	330.0	336.0	362.0	354.0	368.0	380.0	316.0
37.5°	466.0	465.0	445.0	410.0	369.0	355.0	381.0	375.0	384.0	404.0	335.0
40°	515.9	514.9	500.0	469.0	419.0	386.0	400.0	400.0	403.0	430.0	356.0
42.5°	555.9	554.9	542.9	513.9	469.0	423.0	423.0	426.0	425.0	460.0	377.0
45°	582.9	578.9	574.9	549.9	508.9	465.0	451.0	453.0	450.0	492.0	402.0
47.5°	590.9	590.9	590.9	579.9	537.9	502.9	484.0	481.0	478.0	523.9	430.0
50°	570.9	572.9	587.9	595.9	558.9	533.9	516.9	508.9	508.9	561.9	465.0
52.5°	466.0	469.0	527.9	574.9	573.9	549.9	548.9	537.9	542.9	602.9	503.9
55°	336.0	346.0	409.0	508.9	569.9	559.9	571.9	567.9	579.9	649.9	533.9
57.5°	275.0	275.0	308.0	410.0	519.9	562.9	593.9	590.9	603.9	680.9	556.9
60°	216.0	221.0	240.0	309.0	437.0	537.9	588.9	596.9	614.9	707.9	588.9
62.5°	164.0	169.0	187.0	234.0	341.0	483.0	573.9	595.9	633.9	754.9	638.9
65°	121.0	121.0	133.0	166.0	253.0	410.0	560.9	609.9	674.9	826.9	697.9
67.5°	85.0	85.0	95.0	115.0	173.0	330.0	529.9	638.9	733.9	926.9	774.9
70°	59.0	60.0	67.0	78.0	108.0	231.0	469.0	656.9	816.9	1044.9	843.9
72.5°	45.0	45.0	49.0	54.0	70.0	156.0	380.0	627.9	874.9	1093.9	823.9
75°	21.0	21.0	34.0	40.0	48.0	103.0	274.0	501.9	805.9	925.9	595.9
77.5°	17.0	17.0	18.0	30.0	32.0	58.0	128.0	243.0	462.0	476.0	229.0
80°	11.0	11.0	14.0	16.0	16.0	30.0	38.0	50.0	102.0	87.0	31.0
82.5°	8.0	7.0	8.0	12.0	15.0	16.0	7.0	8.0	9.0	8.0	5.0
85°	3.0	3.0	6.0	10.0	9.0	4.0	3.0	3.0	4.0	4.0	2.0
87.5°	1.0	1.0	4.0	4.0	6.0	2.0	2.0	1.0	2.0	2.0	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°	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
2.5°	126.0	119.0	107.0	99.0	90.0	84.0	79.0	75.0	74.0	71.0	72.0
5°	128.0	115.0	95.0	80.0	67.0	59.0	52.0	48.0	46.0	44.0	44.0
7.5°	132.0	113.0	85.0	65.0	51.0	42.0	34.0	31.0	28.0	27.0	27.0
10°	137.0	113.0	77.0	54.0	38.0	29.0	24.0	22.0	20.0	20.0	20.0
12.5°	145.0	114.0	71.0	44.0	28.0	22.0	20.0	19.0	18.0	18.0	18.0
15°	154.0	116.0	64.0	34.0	22.0	19.0	17.0	16.0	15.0	15.0	15.0
17.5°	165.0	119.0	57.0	27.0	19.0	17.0	15.0	14.0	13.0	13.0	13.0
20°	175.0	121.0	49.0	22.0	17.0	15.0	13.0	12.0	11.0	10.0	10.0
22.5°	187.0	124.0	39.0	19.0	16.0	13.0	11.0	10.0	9.0	8.0	8.0
25°	199.0	125.0	31.0	17.0	14.0	11.0	9.0	8.0	7.0	7.0	7.0
27.5°	208.0	125.0	25.0	15.0	12.0	9.0	8.0	7.0	6.0	6.0	6.0
30°	217.0	122.0	19.0	14.0	10.0	8.0	6.0	6.0	5.0	5.0	5.0
32.5°	226.0	117.0	17.0	12.0	9.0	7.0	5.0	5.0	4.0	4.0	4.0
35°	235.0	110.0	15.0	11.0	7.0	6.0	5.0	4.0	4.0	4.0	4.0
37.5°	244.0	102.0	13.0	9.0	6.0	5.0	4.0	4.0	4.0	3.0	3.0
40°	254.0	92.0	12.0	8.0	6.0	4.0	4.0	3.0	3.0	3.0	3.0
42.5°	267.0	81.0	11.0	7.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0
45°	278.0	68.0	9.0	6.0	5.0	3.0	3.0	2.0	2.0	2.0	2.0
47.5°	293.0	54.0	8.0	5.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0
50°	310.0	44.0	8.0	5.0	4.0	2.0	2.0	2.0	1.0	1.0	1.0
52.5°	333.0	37.0	7.0	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0
55°	346.0	30.0	6.0	4.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
57.5°	357.0	25.0	5.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
60°	375.0	20.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	396.0	17.0	4.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	417.0	15.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	433.0	14.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	421.0	12.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	327.0	10.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	154.0	7.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	2.0	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	1.0	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)