

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: P459580

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

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-7)
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-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 966 lumens
Efficiency: N/A
Efficacy: 30.2 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 (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

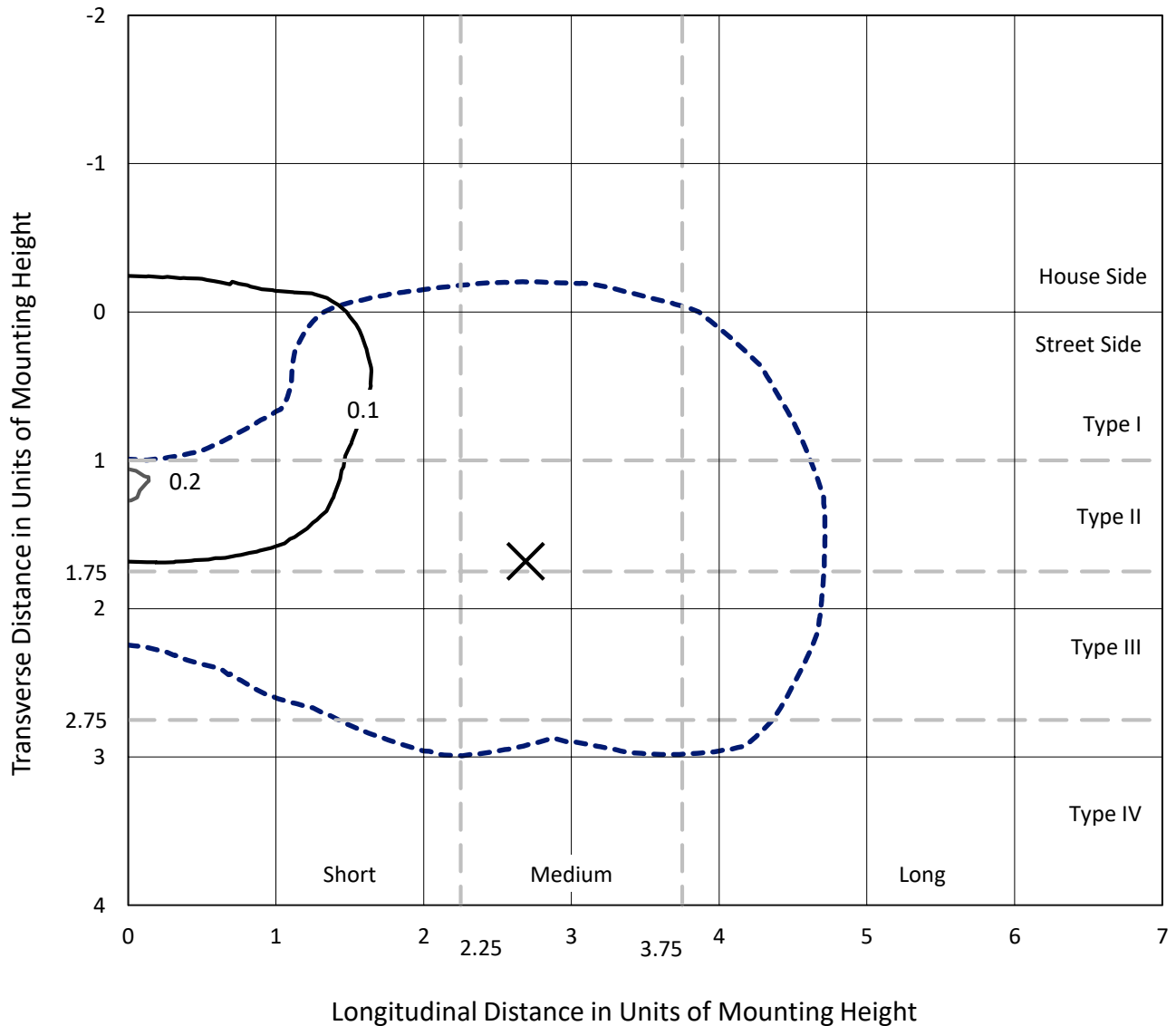


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

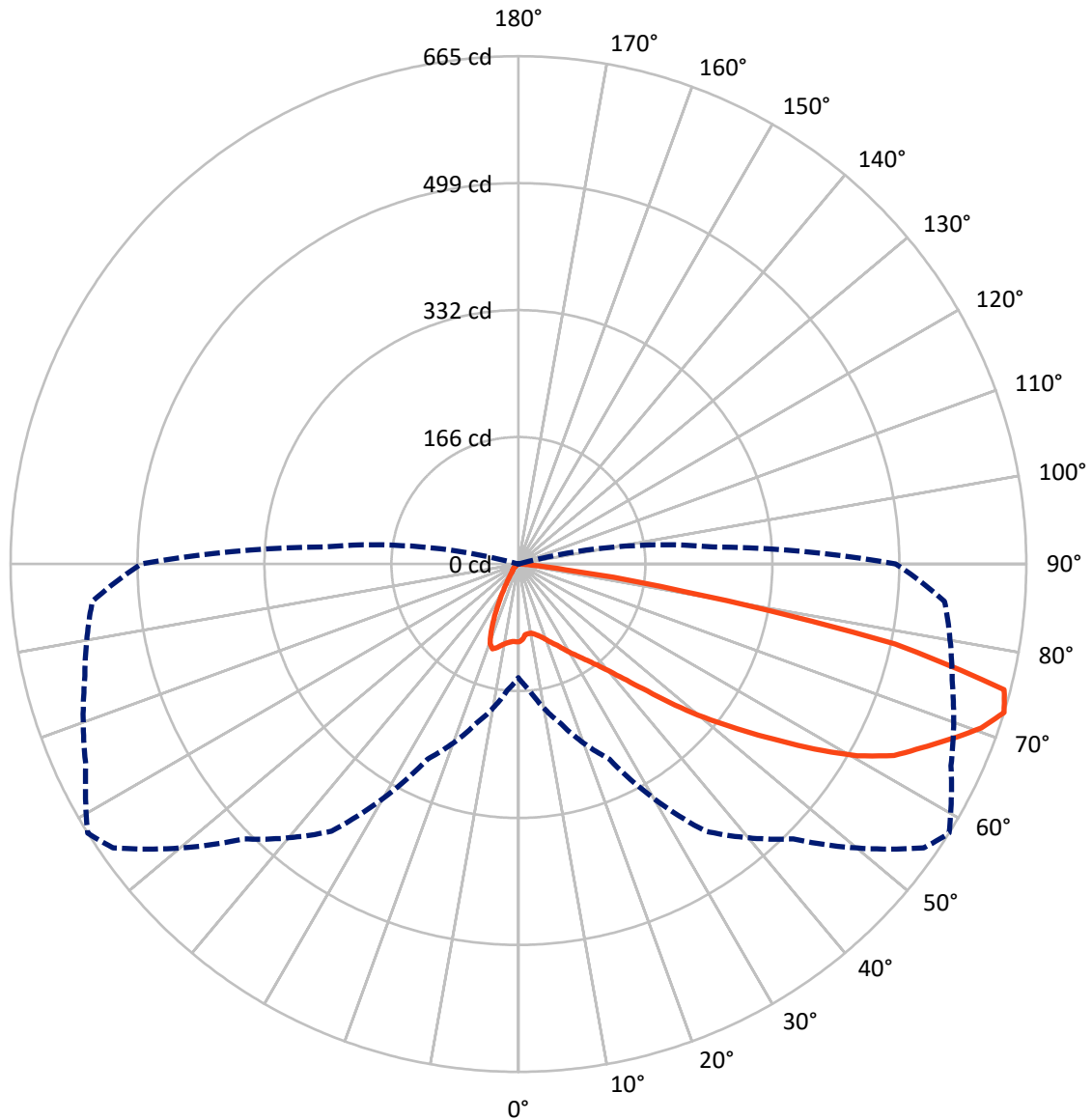


Based on 25 foot mounting height. Maximum calculated value = 0.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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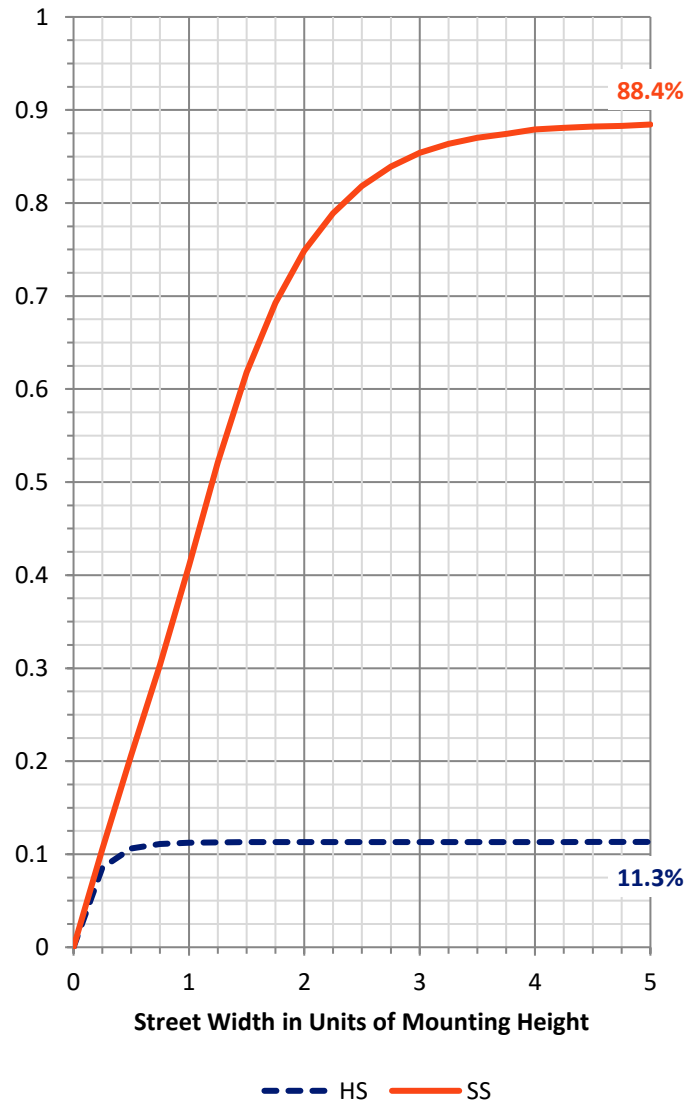
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	110.6	0.0	110.6
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	855.4	0.0	855.4
	% Fixture	88.5	0.0	88.5
Total	Lumens	966.0	0.0	966.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	1.0
10°-20°	26.7	2.8
20°-30°	41.3	4.3
30°-40°	64.2	6.6
40°-50°	125.0	12.9
50°-60°	227.2	23.5
60°-70°	272.6	28.2
70°-80°	188.1	19.5
80°-90°	11.7	1.2
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°	966.0	100.0
0°-180°	966.0	100.0



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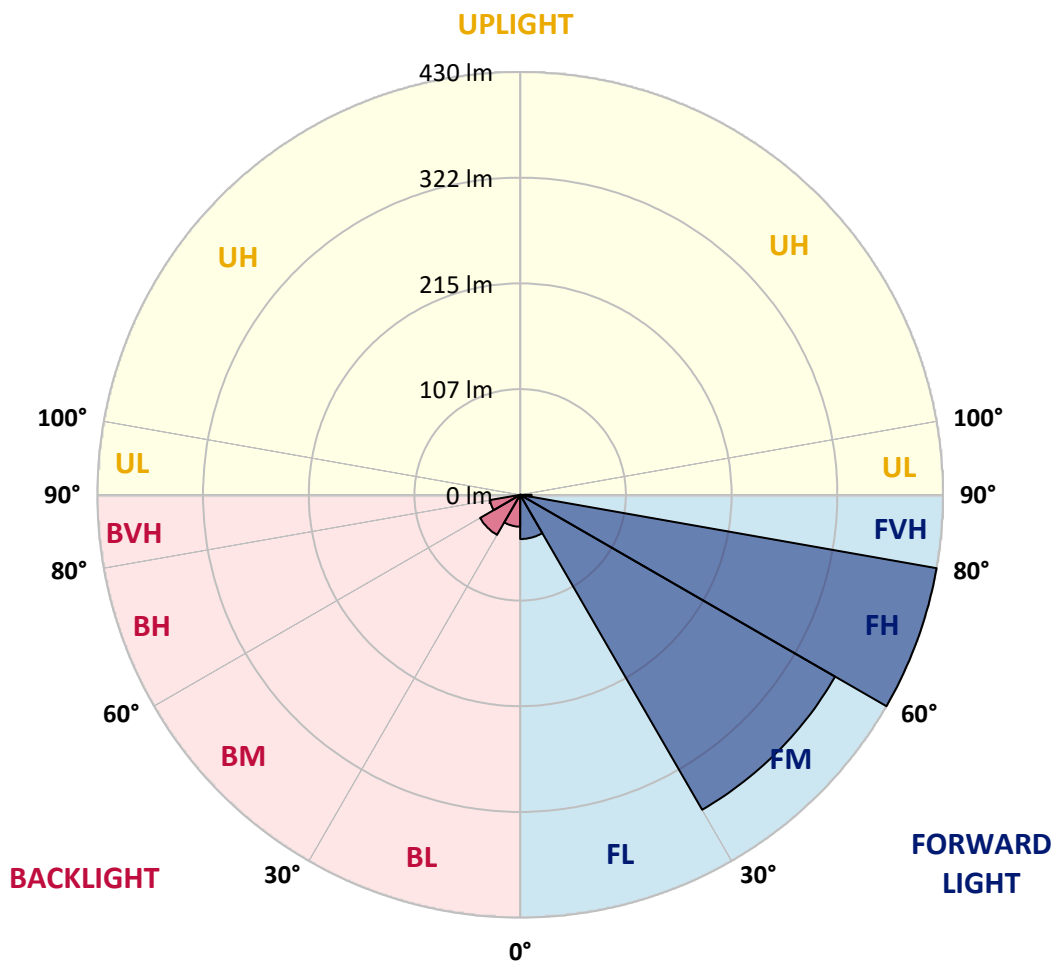
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	44.9	4.6			
FM	(30°-60°)	369.5	38.2			
FH	(60°-80°)	429.6	44.5			G0/660
FVH	(80°-90°)	11.5	1.2			G1/100
BL	(0°-30°)	32.4	3.4	B0/110		
BM	(30°-60°)	47.0	4.9	B0/220		
BH	(60°-80°)	31.1	3.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
2.5°	94.0	94.0	95.0	95.0	96.0	97.0	98.0	99.0	99.0	100.0	100.0
5°	89.0	89.0	90.0	90.0	90.0	92.0	93.0	93.0	95.0	98.0	100.0
7.5°	88.0	88.0	88.0	88.0	89.0	90.0	91.0	92.0	94.0	97.0	102.0
10°	88.0	88.0	88.0	88.0	88.0	89.0	91.0	92.0	95.0	100.0	105.0
12.5°	88.0	88.0	88.0	88.0	88.0	89.0	92.0	94.0	98.0	104.0	111.0
15°	89.0	88.0	88.0	87.0	88.0	91.0	96.0	97.0	103.0	111.0	117.9
17.5°	90.0	89.0	88.0	88.0	90.0	94.0	100.0	101.0	108.0	117.9	125.9
20°	92.0	91.0	90.0	90.0	93.0	98.0	104.0	106.0	113.0	124.9	133.9
22.5°	93.0	92.0	91.0	93.0	97.0	102.0	109.0	112.0	119.9	132.9	140.9
25°	94.0	93.0	93.0	95.0	100.0	107.0	116.0	117.9	126.9	141.9	147.9
27.5°	96.0	96.0	95.0	98.0	105.0	113.0	123.9	125.9	135.9	150.9	155.9
30°	107.0	107.0	104.0	104.0	109.0	118.9	130.9	134.9	144.9	161.9	163.9
32.5°	122.9	123.9	119.9	116.0	117.9	125.9	139.9	143.9	155.9	171.9	172.9
35°	143.9	146.9	141.9	131.9	129.9	135.9	149.9	154.9	168.9	184.9	183.9
37.5°	172.9	172.9	173.9	153.9	148.9	149.9	162.9	167.9	183.9	202.9	197.9
40°	213.9	209.9	200.9	183.9	172.9	171.9	179.9	184.9	202.9	223.9	215.9
42.5°	266.9	260.9	241.9	224.9	205.9	202.9	205.9	207.9	223.9	247.9	236.9
45°	335.9	326.9	314.9	290.9	259.9	243.9	238.9	236.9	250.9	278.9	262.9
47.5°	421.8	406.8	393.8	366.8	343.9	304.9	279.9	275.9	284.9	310.9	291.9
50°	501.8	477.8	458.8	438.8	429.8	387.8	321.9	315.9	320.9	346.9	323.9
52.5°	550.8	518.8	503.8	492.8	488.8	469.8	371.8	357.8	360.8	386.8	355.8
55°	521.8	524.8	526.8	531.8	538.8	529.8	424.8	403.8	405.8	426.8	385.8
57.5°	489.8	498.8	520.8	549.8	590.7	574.8	472.8	456.8	454.8	465.8	406.8
60°	456.8	465.8	500.8	552.8	616.7	604.7	517.8	509.8	499.8	490.8	425.8
62.5°	412.8	418.8	463.8	545.8	608.7	618.7	555.8	551.8	532.8	512.8	451.8
65°	351.8	355.8	403.8	509.8	590.7	605.7	578.8	579.8	559.8	534.8	484.8
67.5°	297.9	304.9	344.9	441.8	558.8	584.8	602.7	610.7	587.7	562.8	516.8
70°	251.9	256.9	286.9	373.8	500.8	553.8	631.7	642.7	613.7	582.8	543.8
72.5°	148.9	165.9	216.9	281.9	426.8	508.8	647.7	664.7	624.7	587.7	559.8
75°	37.0	39.0	94.0	180.9	313.9	414.8	629.7	656.7	617.7	564.8	492.8
77.5°	19.0	20.0	25.0	71.0	153.9	234.9	485.8	503.8	486.8	420.8	282.9
80°	7.0	7.0	8.0	22.0	62.0	60.0	210.9	220.9	226.9	172.9	72.0
82.5°	3.0	3.0	5.0	10.0	40.0	17.0	51.0	62.0	54.0	32.0	10.0
85°	2.0	2.0	3.0	5.0	18.0	7.0	12.0	17.0	15.0	10.0	5.0
87.5°	2.0	2.0	2.0	3.0	10.0	3.0	4.0	5.0	6.0	6.0	2.0
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°	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
2.5°	100.0	101.0	101.0	101.0	102.0	102.0	102.0	103.0	103.0	103.0	103.0
5°	100.0	101.0	101.0	101.0	102.0	102.0	102.0	103.0	103.0	103.0	104.0
7.5°	103.0	103.0	104.0	104.0	103.0	102.0	101.0	101.0	101.0	101.0	102.0
10°	107.0	108.0	108.0	107.0	105.0	103.0	101.0	99.0	98.0	99.0	99.0
12.5°	113.0	113.0	113.0	111.0	108.0	105.0	102.0	96.0	89.0	85.0	86.0
15°	119.9	119.9	118.9	116.0	112.0	106.0	90.0	70.0	60.0	54.0	54.0
17.5°	127.9	127.9	125.9	120.9	114.0	91.0	60.0	42.0	33.0	30.0	30.0
20°	134.9	135.9	131.9	124.9	105.0	62.0	35.0	26.0	24.0	23.0	23.0
22.5°	141.9	142.9	137.9	126.9	82.0	38.0	24.0	23.0	22.0	21.0	21.0
25°	149.9	149.9	141.9	120.9	55.0	25.0	22.0	21.0	20.0	19.0	19.0
27.5°	156.9	155.9	144.9	105.0	34.0	21.0	20.0	19.0	18.0	17.0	17.0
30°	162.9	160.9	146.9	79.0	22.0	19.0	18.0	17.0	15.0	14.0	14.0
32.5°	169.9	165.9	146.9	53.0	18.0	17.0	16.0	14.0	12.0	11.0	10.0
35°	179.9	173.9	144.9	32.0	16.0	14.0	13.0	11.0	9.0	8.0	8.0
37.5°	190.9	181.9	136.9	20.0	14.0	12.0	10.0	8.0	7.0	6.0	6.0
40°	205.9	191.9	121.9	15.0	12.0	10.0	8.0	6.0	5.0	4.0	4.0
42.5°	223.9	205.9	103.0	13.0	11.0	8.0	6.0	4.0	4.0	3.0	3.0
45°	244.9	223.9	80.0	12.0	9.0	7.0	4.0	3.0	3.0	3.0	3.0
47.5°	270.9	241.9	54.0	11.0	8.0	5.0	3.0	2.0	2.0	2.0	2.0
50°	298.9	262.9	31.0	10.0	7.0	4.0	2.0	2.0	2.0	1.0	1.0
52.5°	327.9	284.9	19.0	9.0	5.0	3.0	2.0	1.0	1.0	1.0	1.0
55°	348.9	297.9	14.0	8.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0
57.5°	364.8	304.9	11.0	7.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0
60°	384.8	309.9	10.0	6.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	418.8	316.9	9.0	4.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
65°	459.8	317.9	7.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
67.5°	501.8	311.9	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	521.8	294.9	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	493.8	255.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	366.8	111.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	176.9	42.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	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)