

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: P348617

Luminaire Tested: **ARCH-N-PA1-10-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1651 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 14
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

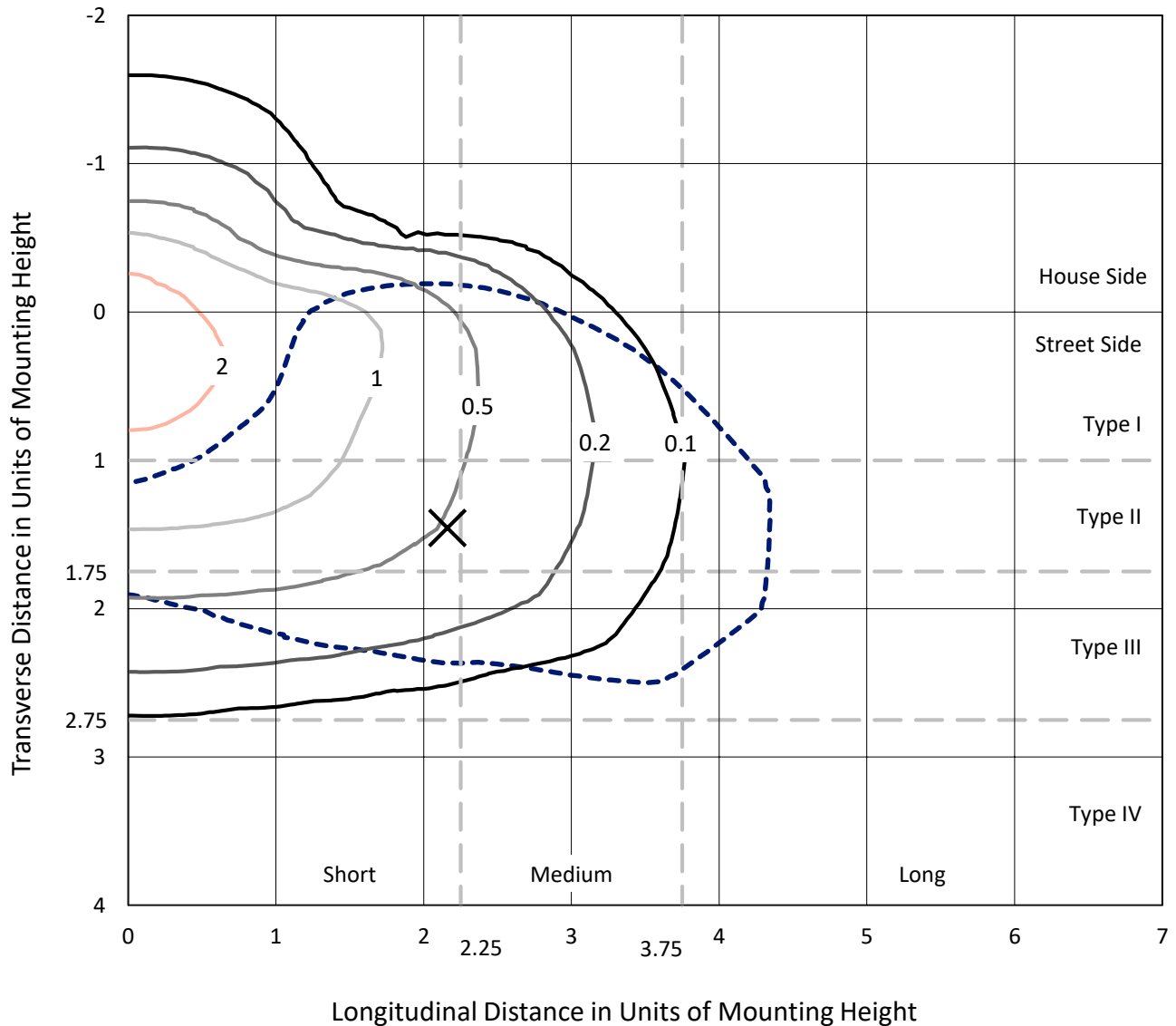


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

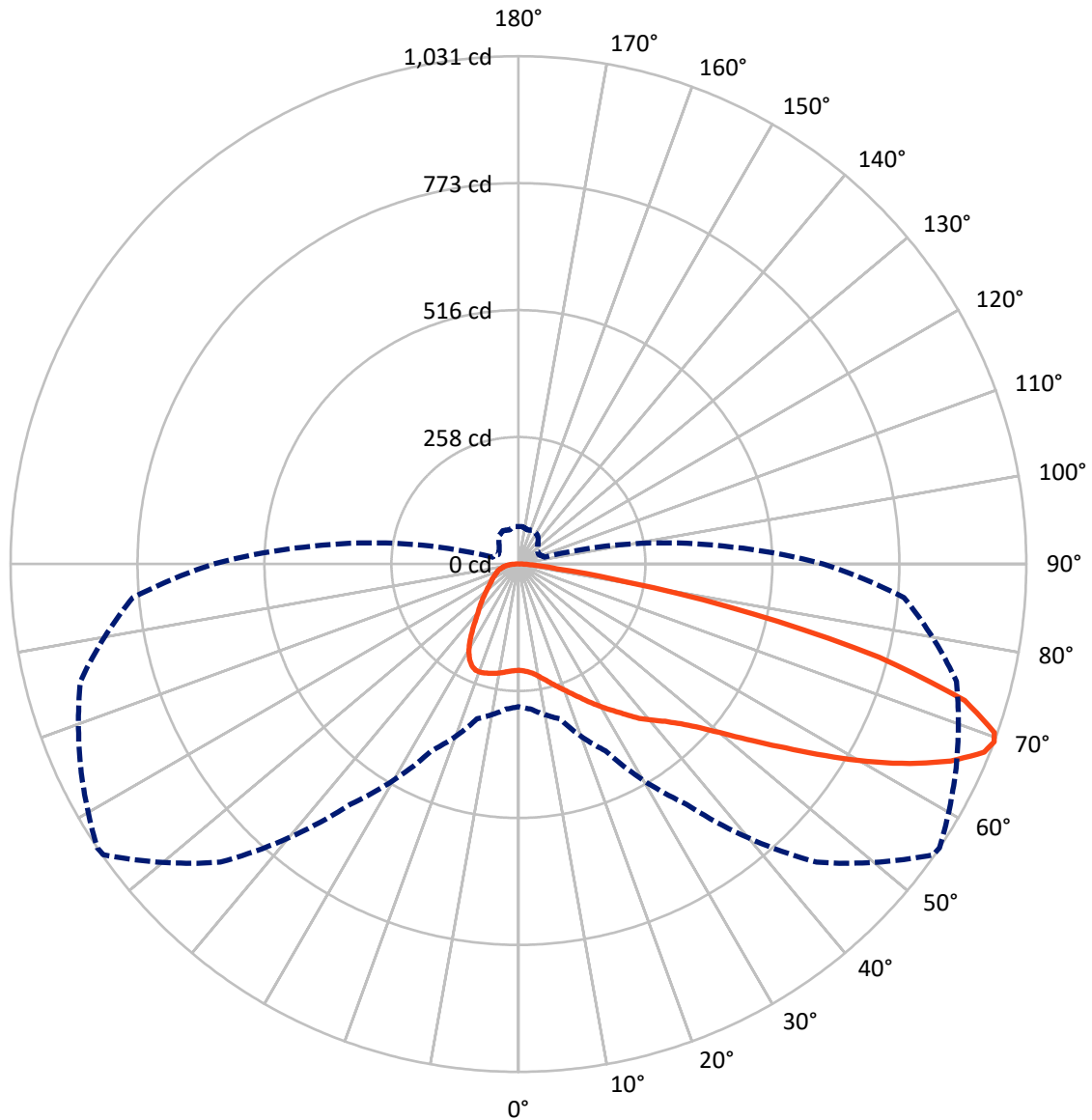


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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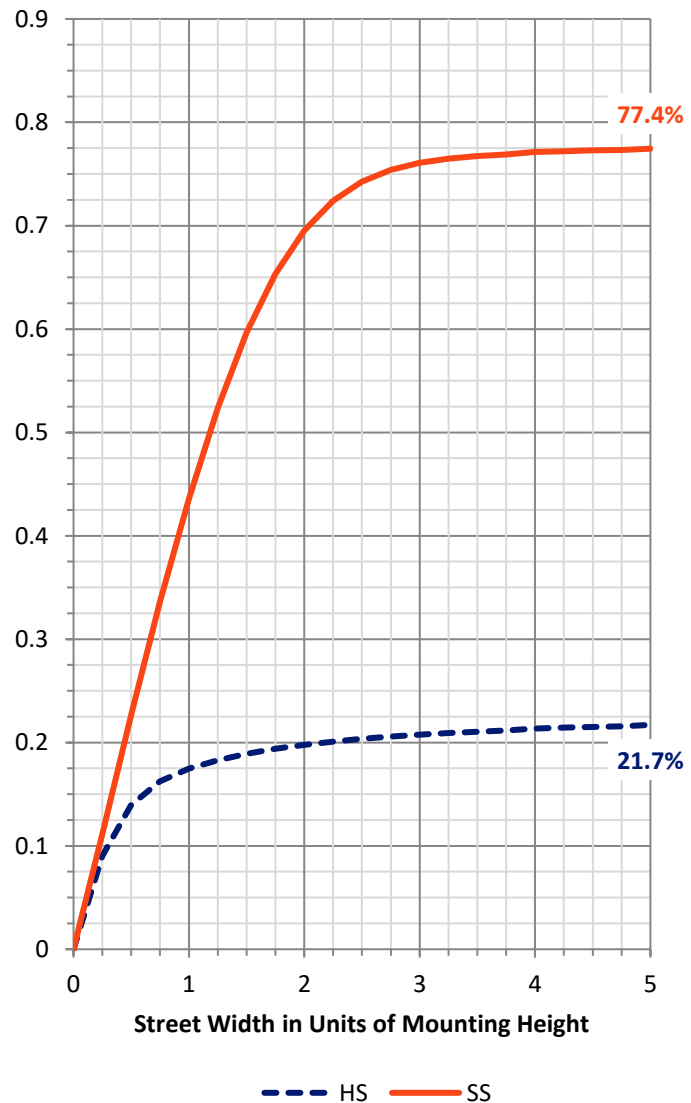
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	367.7	0.0	367.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	1283.3	0.0	1283.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	1651.0	0.0	1651.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	1.3
10°-20°	68.2	4.1
20°-30°	119.0	7.2
30°-40°	170.9	10.4
40°-50°	236.6	14.3
50°-60°	346.6	21.0
60°-70°	422.6	25.6
70°-80°	233.6	14.2
80°-90°	32.4	2.0
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°	1651.0	100.0
0°-180°	1651.0	100.0



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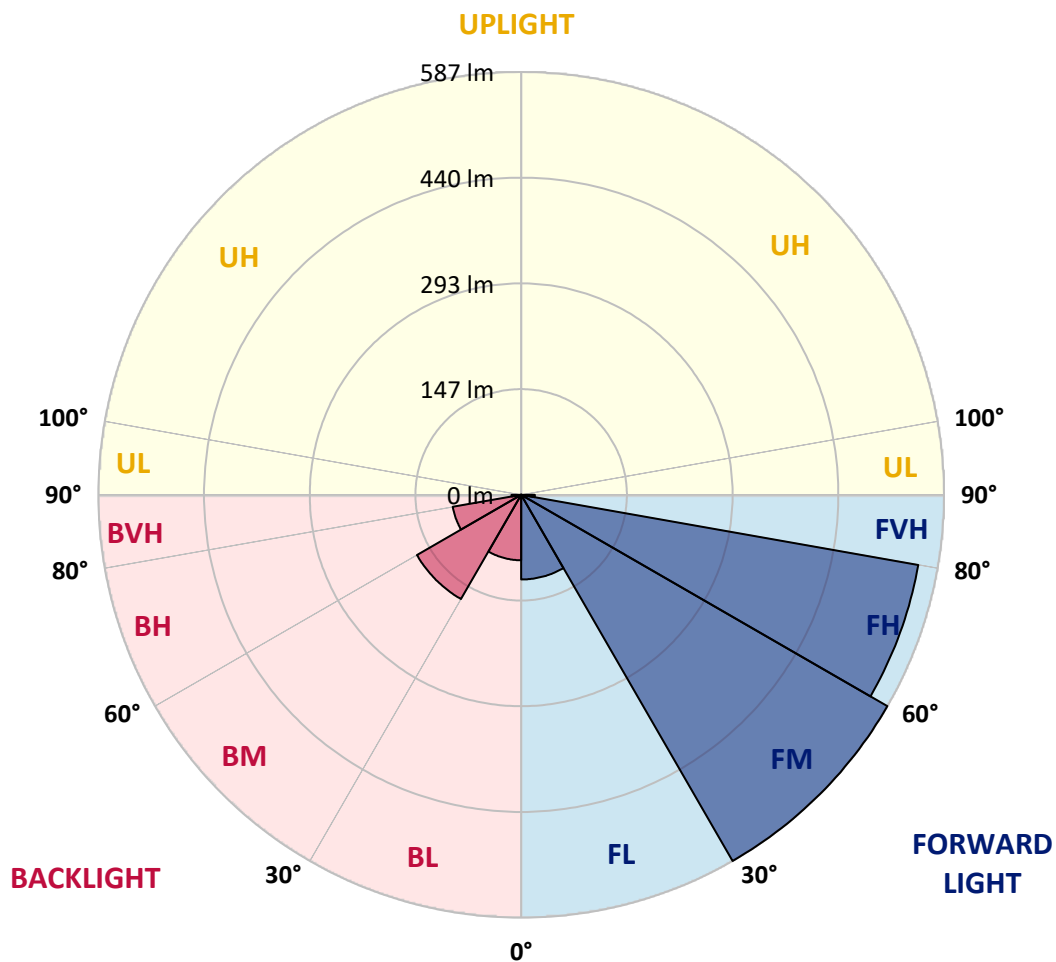
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.5	7.1			
FM (30°-60°)	587.0	35.6			
FH (60°-80°)	559.8	33.9			G0/660
FVH (80°-90°)	19.1	1.2			G1/100
BL (0°-30°)	90.9	5.5	B0/110		
BM (30°-60°)	167.1	10.1	B0/220		
BH (60°-80°)	96.4	5.8	B0/110		G0/110
BVH (80°-90°)	13.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8
2.5°	217.2	217.4	217.3	217.7	217.2	217.5	217.3	217.3	217.1	216.6	216.0
5°	220.6	221.1	220.8	221.2	220.6	220.7	220.2	220.2	219.7	218.6	217.5
7.5°	226.0	226.5	226.3	226.7	225.9	225.9	225.2	225.1	224.1	222.3	221.0
10°	232.3	233.0	232.8	233.5	232.8	233.0	232.3	232.3	231.0	228.5	226.8
12.5°	241.6	242.5	241.8	241.8	241.5	241.9	241.4	241.3	240.0	236.6	234.3
15°	254.0	254.9	253.6	253.5	251.9	251.7	251.7	251.6	250.8	246.7	242.9
17.5°	268.3	268.6	267.4	265.6	263.6	262.3	262.1	262.5	262.5	257.8	251.8
20°	282.3	282.8	281.9	279.8	277.2	275.3	273.9	274.8	274.8	269.1	260.6
22.5°	297.5	298.7	297.3	294.7	291.7	289.5	287.1	287.9	288.0	281.0	269.2
25°	317.3	316.2	315.3	311.6	307.2	305.0	302.8	303.6	303.4	293.8	278.2
27.5°	334.7	334.9	333.8	329.9	324.8	319.9	319.8	320.3	319.5	307.1	286.6
30°	355.0	355.1	353.5	350.0	344.5	338.2	336.7	337.6	335.7	319.7	295.5
32.5°	375.2	375.8	374.0	369.7	365.3	357.6	354.7	355.2	350.7	332.6	304.6
35°	392.9	393.7	393.1	390.3	385.4	378.8	375.3	375.0	369.4	348.4	316.7
37.5°	410.9	411.7	411.0	408.7	406.7	399.7	397.8	397.8	388.1	364.6	332.2
40°	429.5	430.6	429.9	426.6	424.9	421.7	417.2	416.2	405.6	384.0	357.3
42.5°	446.7	448.2	451.1	449.2	445.8	446.3	437.3	436.7	429.0	412.6	388.9
45°	471.2	473.3	478.3	476.8	476.2	473.7	462.9	462.4	459.4	451.2	428.0
47.5°	497.8	500.8	509.8	510.1	517.5	512.7	498.1	496.4	497.0	497.4	475.9
50°	522.4	525.6	540.5	547.5	564.8	565.8	542.4	540.8	543.5	551.4	531.6
52.5°	542.0	546.1	564.7	586.3	615.9	624.3	597.0	595.8	597.8	611.3	594.6
55°	556.4	560.9	581.0	620.4	667.7	682.6	659.8	658.6	659.9	677.1	663.2
57.5°	559.8	560.9	590.1	643.4	711.5	747.1	736.6	734.3	728.2	743.2	738.8
60°	544.0	548.3	582.6	651.5	745.3	810.8	816.9	814.1	796.8	809.1	805.6
62.5°	512.1	519.8	554.6	639.2	758.6	862.7	895.7	892.3	862.6	870.5	853.6
65°	459.8	463.1	499.7	596.8	741.7	896.0	965.9	964.2	926.8	914.4	862.5
67.5°	366.5	372.6	403.7	508.2	672.8	892.1	1020.2	1020.1	968.8	930.7	831.0
69°	289.5	295.9	325.5	418.7	595.4	856.2	1029.3	1031.3	980.7	920.8	786.1
70°	230.8	238.3	258.6	352.6	526.6	808.9	1021.8	1025.4	978.4	904.4	744.6
72.5°	98.2	104.3	118.7	181.8	320.9	604.0	934.2	947.8	925.7	827.8	615.4
75°	42.9	44.8	51.3	74.1	142.5	328.7	731.9	756.9	791.5	699.7	458.4
77.5°	31.4	32.2	35.8	43.5	63.9	124.2	470.6	485.2	570.8	509.2	281.2
80°	24.3	24.9	27.6	32.0	41.7	50.2	214.6	227.2	320.9	261.5	117.1
82.5°	19.3	19.7	21.7	23.5	28.8	30.4	71.3	79.1	118.5	72.2	31.0
85°	18.0	18.4	19.1	17.2	18.5	17.9	30.8	32.2	35.8	28.4	13.0
87.5°	8.1	9.6	18.9	13.4	9.8	7.8	12.6	13.2	14.8	14.9	5.7
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°	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8	215.8
2.5°	216.4	216.2	216.5	215.8	216.6	216.6	216.3	216.4	217.0	216.9	217.0
5°	217.7	217.5	217.9	217.4	218.4	218.7	218.8	219.3	219.9	220.1	220.1
7.5°	221.0	221.0	221.1	220.5	221.1	221.1	220.8	221.3	221.9	222.0	221.9
10°	226.6	226.7	226.4	224.7	224.1	222.6	221.1	221.2	222.0	222.6	222.8
12.5°	233.8	233.6	232.3	229.1	226.7	223.6	222.1	222.0	222.8	223.4	223.5
15°	242.0	241.4	238.1	232.8	228.6	225.6	223.2	222.6	222.2	221.6	221.6
17.5°	249.7	248.3	242.9	235.6	231.1	227.0	222.4	218.7	216.2	214.7	214.3
20°	257.6	254.8	247.0	238.1	232.5	225.1	216.2	208.7	204.0	201.9	201.5
22.5°	264.8	260.3	250.8	240.8	231.4	218.3	204.4	193.5	187.0	184.1	184.3
25°	271.8	265.5	254.8	242.7	226.0	206.5	188.0	174.6	167.1	163.9	163.7
27.5°	277.9	270.8	259.1	241.2	215.8	189.7	168.6	155.6	149.3	146.5	146.1
30°	284.9	277.4	264.9	235.3	200.9	170.2	149.7	140.5	136.0	133.3	132.7
32.5°	293.5	286.5	269.6	224.7	181.8	149.9	134.9	128.5	124.4	121.3	120.7
35°	306.0	298.4	270.8	209.4	160.9	133.9	124.0	117.4	112.0	108.0	107.6
37.5°	321.7	313.4	268.1	189.7	140.6	123.5	115.0	106.9	99.8	94.1	93.2
40°	344.4	331.8	260.5	166.9	125.6	115.5	106.2	96.9	88.1	81.4	80.1
42.5°	371.6	353.3	248.9	144.3	114.7	107.3	97.4	85.9	77.5	72.8	72.1
45°	406.1	375.7	232.8	124.5	103.9	99.2	88.0	77.4	72.2	68.7	68.1
47.5°	445.6	400.9	215.9	108.4	94.7	91.6	80.4	73.6	69.4	66.7	66.2
50°	494.1	429.2	198.0	95.2	85.5	82.4	76.8	71.5	68.2	66.1	65.6
52.5°	548.9	461.3	185.1	84.8	77.9	75.6	75.0	70.4	67.7	66.1	65.6
55°	607.8	493.9	171.1	76.0	71.3	71.9	73.7	70.5	68.6	66.7	66.0
57.5°	666.8	527.5	155.6	68.6	66.0	69.1	72.9	70.7	69.2	67.3	66.6
60°	713.4	548.9	131.6	62.4	61.9	66.0	70.8	69.0	67.0	67.1	66.9
62.5°	735.2	547.7	105.0	56.9	57.7	61.9	67.5	66.3	64.7	66.9	67.1
65°	722.9	520.4	81.7	51.9	53.3	57.6	64.1	65.0	65.6	69.8	70.4
67.5°	671.6	467.3	63.3	47.5	49.3	54.6	64.4	70.8	71.5	76.0	76.0
69°	618.6	417.5	55.0	45.3	47.3	55.3	68.9	74.5	71.7	76.5	75.8
70°	574.1	378.1	50.6	43.7	46.4	56.6	71.8	74.5	70.9	75.0	73.8
72.5°	442.2	272.0	42.9	40.9	43.3	54.2	72.7	72.8	68.9	69.7	67.7
75°	303.3	171.9	37.4	37.0	38.6	48.9	70.0	69.6	63.7	62.6	61.0
77.5°	167.2	87.3	31.8	33.3	34.4	43.3	63.6	63.0	58.2	55.8	55.2
80°	64.5	38.2	26.8	29.6	30.3	37.5	55.7	55.2	51.2	48.1	47.3
82.5°	24.3	20.0	22.2	25.7	25.4	30.9	47.2	46.9	43.0	38.5	37.1
85°	11.3	12.0	17.6	21.2	19.5	22.9	37.8	38.3	33.5	28.2	28.2
87.5°	4.8	6.7	12.5	16.0	13.1	15.5	27.7	26.4	24.3	16.8	15.8
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)