

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: P348533

Luminaire Tested: **ARCH-N-PA1-10-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

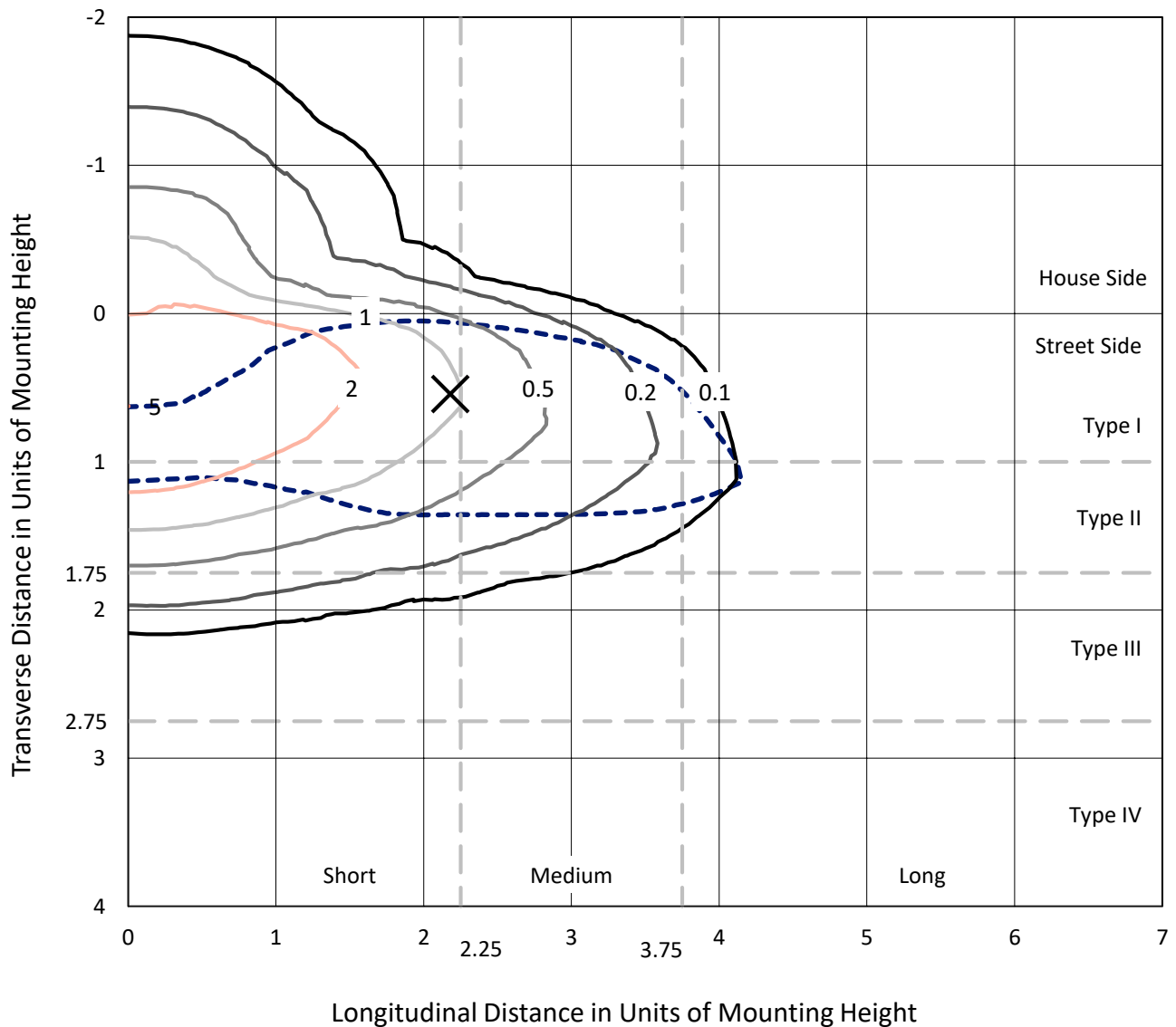
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

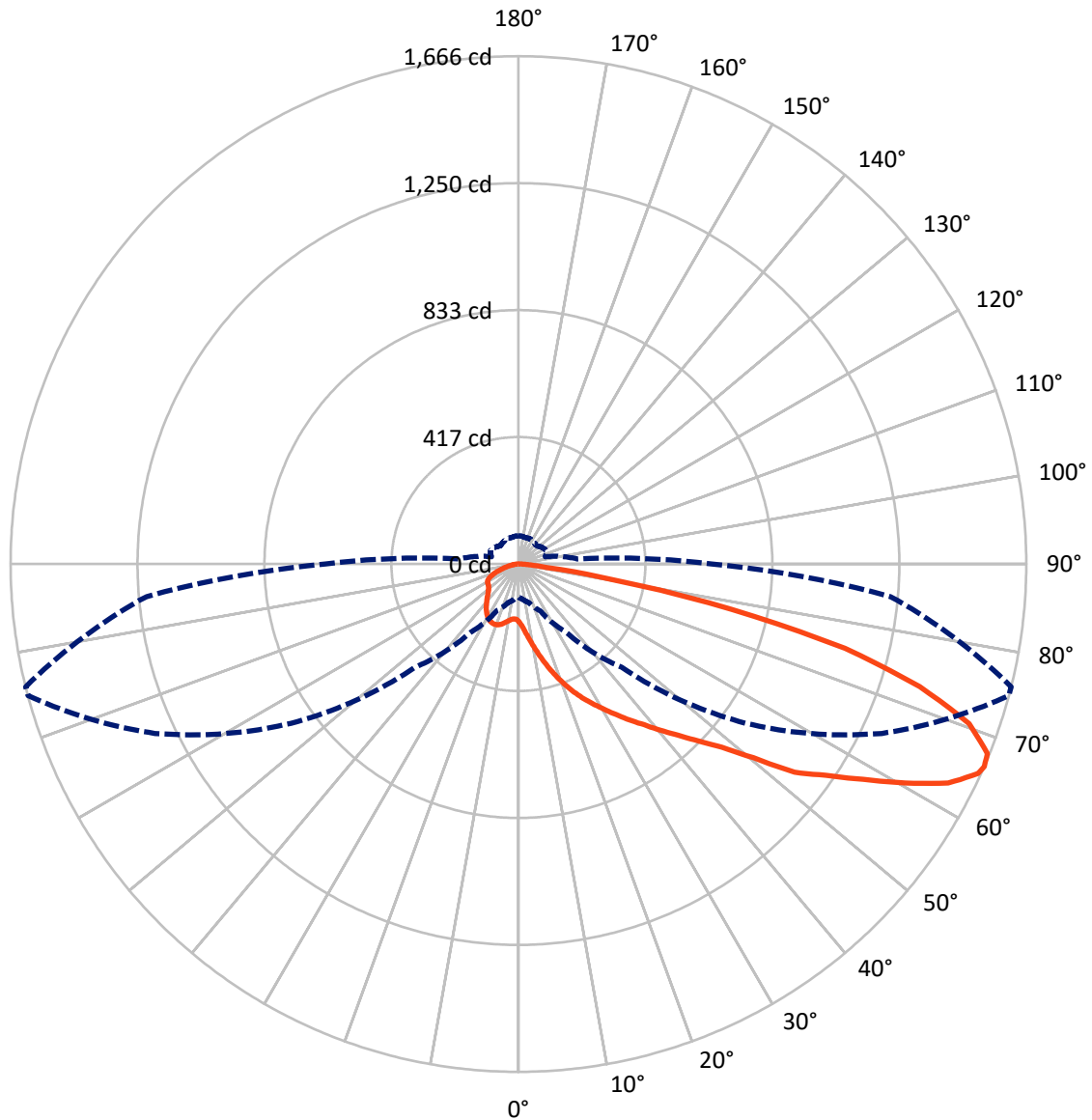
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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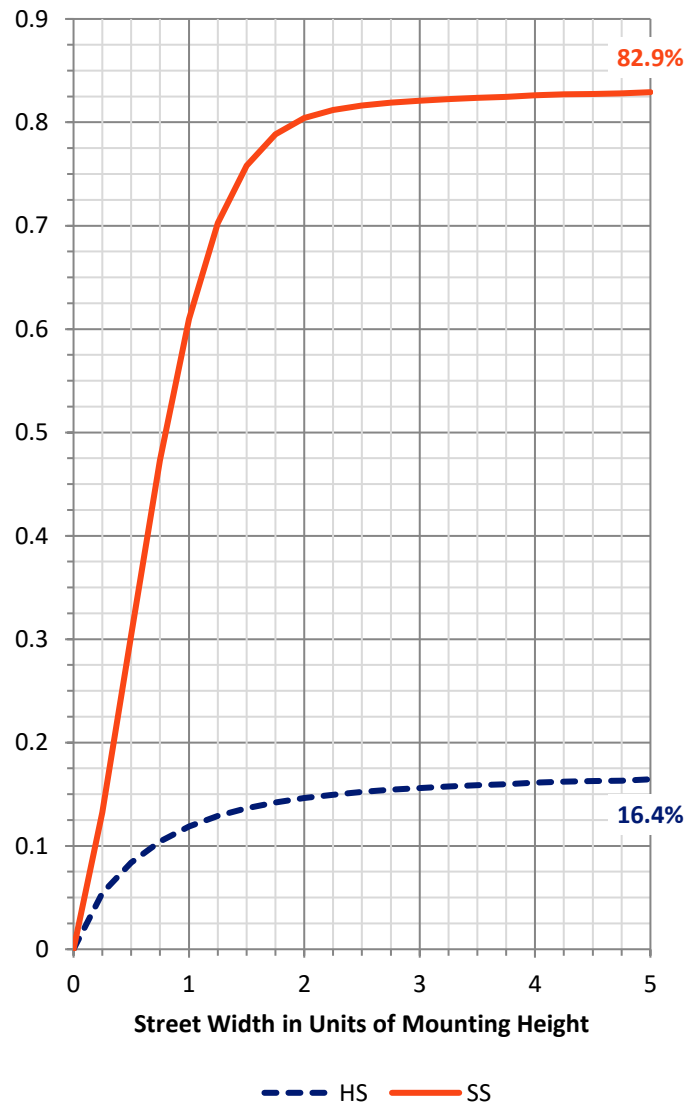
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.5	0.0	347.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	1717.5	0.0	1717.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	2065.0	0.0	2065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	1.1
10°-20°	90.1	4.4
20°-30°	175.0	8.5
30°-40°	285.6	13.8
40°-50°	390.2	18.9
50°-60°	454.6	22.0
60°-70°	407.5	19.7
70°-80°	205.9	10.0
80°-90°	33.3	1.6
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°	2065.0	100.0
0°-180°	2065.0	100.0



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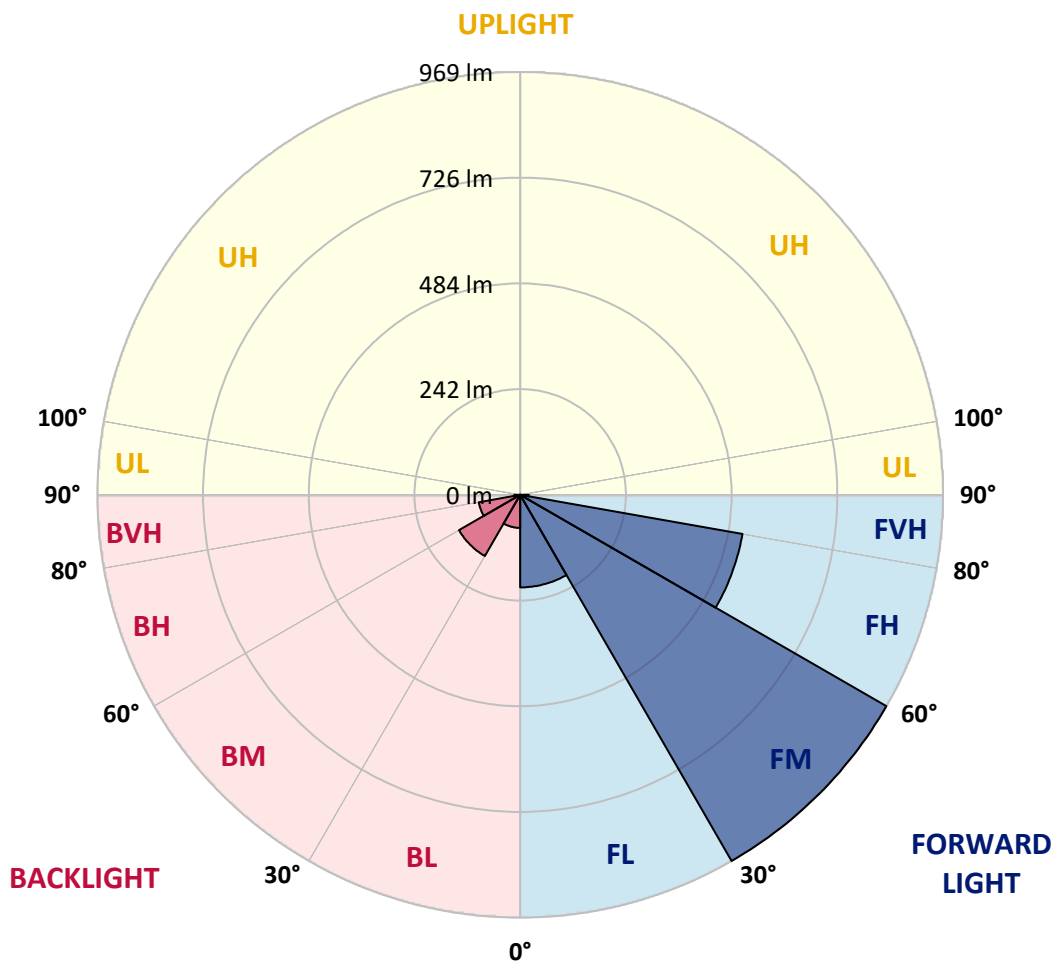
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.1	10.3			
FM (30°-60°)	968.6	46.9			
FH (60°-80°)	517.2	25.0			G0/660
FVH (80°-90°)	19.6	1.0			G1/100
BL (0°-30°)	75.8	3.7	B0/110		
BM (30°-60°)	161.8	7.8	B0/220		
BH (60°-80°)	96.3	4.7	B0/110		G0/110
BVH (80°-90°)	13.6	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6
2.5°	250.3	246.6	246.2	240.7	239.4	228.8	221.0	212.9	203.7	201.8	194.5
5°	321.6	321.2	316.4	307.3	300.3	282.2	264.3	245.4	224.6	221.2	204.8
7.5°	385.6	385.1	381.4	371.6	361.4	339.2	313.6	284.6	251.0	246.0	218.8
10°	434.3	434.1	432.8	425.7	417.0	395.7	367.5	327.9	281.6	274.8	236.3
12.5°	471.9	472.3	473.1	470.6	466.5	448.3	419.4	373.7	314.3	307.5	255.7
15°	497.3	498.6	502.9	506.5	508.7	497.5	469.6	420.6	350.9	342.8	277.2
17.5°	510.2	511.6	519.1	529.8	539.8	538.7	516.5	465.4	386.0	378.2	300.3
20°	521.2	522.3	530.7	543.7	561.3	569.0	556.6	508.4	424.5	415.2	324.9
22.5°	553.3	554.7	557.2	564.6	580.1	594.4	588.4	549.1	459.7	451.1	348.1
25°	615.3	616.9	611.5	605.2	608.2	618.1	619.2	586.3	495.5	485.8	373.2
27.5°	690.0	692.3	683.0	666.9	652.9	649.0	647.7	616.7	529.6	518.4	397.9
30°	763.1	767.1	755.0	734.1	708.4	690.3	676.9	646.5	563.3	552.5	421.3
32.5°	834.5	832.9	815.3	795.0	764.8	742.2	709.8	678.5	601.1	588.7	444.5
35°	883.5	884.0	867.7	843.6	814.8	797.4	753.8	713.0	639.8	628.3	470.8
37.5°	925.1	922.5	904.0	881.5	856.7	849.3	805.4	751.0	681.6	669.1	498.9
40°	939.0	936.0	923.8	907.6	887.8	887.2	862.2	794.0	728.9	716.6	530.5
42.5°	930.6	926.7	921.7	917.3	911.2	914.0	915.6	844.5	781.0	767.2	567.1
45°	899.5	893.7	897.2	906.8	920.1	935.9	963.9	900.4	839.2	827.7	610.0
47.5°	851.8	846.5	857.4	878.0	914.0	954.1	1009.5	962.0	908.8	897.3	671.3
50°	784.6	786.2	801.8	839.2	893.6	962.5	1065.7	1043.7	1009.9	999.1	754.7
52.5°	674.4	674.7	718.7	780.1	857.4	958.2	1096.9	1148.1	1147.9	1134.9	834.2
55°	572.1	578.3	613.1	694.7	798.8	940.8	1118.7	1198.9	1238.5	1223.3	908.3
57.5°	472.1	475.7	508.7	590.6	715.2	894.5	1141.1	1259.8	1343.0	1333.4	1000.5
60°	358.4	364.0	398.1	473.8	608.2	812.2	1143.2	1323.4	1467.8	1458.2	1103.3
62.5°	232.6	242.3	274.2	345.1	478.8	694.0	1094.4	1364.9	1586.2	1582.7	1194.6
65°	133.7	141.0	163.2	217.9	330.3	545.5	978.4	1349.0	1659.0	1657.1	1228.7
66°	109.2	113.8	130.8	170.3	272.6	479.0	910.9	1315.2	1666.2	1666.3	1224.8
67.5°	87.4	89.4	97.0	121.9	201.1	379.7	790.4	1240.8	1657.3	1659.7	1199.5
70°	72.3	73.3	75.7	81.7	109.8	229.0	561.0	1047.6	1567.2	1569.1	1100.7
72.5°	64.8	65.5	66.4	67.2	77.5	127.9	342.7	838.0	1374.0	1376.5	950.2
75°	58.7	59.1	59.0	59.0	65.0	81.5	177.1	625.7	1111.0	1106.1	727.9
77.5°	51.6	51.9	51.2	51.4	57.5	62.7	88.1	438.0	749.8	715.1	410.1
80°	43.6	43.9	43.6	44.1	50.1	47.3	51.2	246.4	331.5	313.6	145.8
82.5°	32.9	34.1	35.0	36.9	41.2	33.7	34.3	96.0	101.0	96.1	44.7
85°	14.4	17.6	26.4	28.3	31.0	20.2	22.5	39.1	41.1	39.8	16.3
87.5°	3.8	4.1	13.0	16.4	17.2	9.1	11.7	17.8	18.8	17.8	5.4
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°	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6	188.6
2.5°	190.7	187.2	181.1	175.6	171.5	168.7	165.9	164.5	163.6	162.8	162.9
5°	196.8	189.8	179.3	171.8	167.5	164.9	163.5	162.9	162.6	161.7	161.7
7.5°	206.0	196.2	181.6	173.9	170.6	168.5	167.7	167.4	167.0	166.0	166.1
10°	217.5	203.8	186.4	178.9	175.9	173.6	172.5	172.0	171.3	170.1	170.3
12.5°	231.1	213.3	192.8	184.9	181.3	178.3	176.3	175.1	173.8	172.3	172.4
15°	246.0	223.6	199.7	190.3	185.4	181.1	178.0	176.0	173.9	172.0	172.0
17.5°	261.1	233.5	204.9	193.3	186.5	181.0	176.7	173.6	171.0	168.7	168.5
20°	277.3	242.5	207.9	193.0	184.3	177.7	172.0	168.1	165.2	163.0	162.6
22.5°	293.9	250.9	208.4	190.1	179.3	171.3	165.3	161.0	158.0	155.7	154.9
25°	309.0	257.4	206.3	184.6	172.4	163.7	157.9	153.5	151.1	148.3	147.5
27.5°	322.8	262.0	202.3	177.5	164.6	156.1	150.6	146.8	144.2	142.1	141.4
30°	335.2	264.4	195.6	169.1	156.6	148.8	144.2	141.6	139.4	136.7	136.2
32.5°	347.0	264.4	187.0	159.9	148.7	142.5	139.7	138.1	135.6	133.0	132.3
35°	358.8	262.8	176.9	150.3	141.4	137.9	137.8	135.9	132.0	128.5	127.6
37.5°	371.2	259.5	165.6	141.3	135.4	135.9	137.1	132.8	127.4	122.4	121.1
40°	385.2	255.0	153.8	133.5	130.5	135.0	135.2	128.5	117.8	113.3	112.1
42.5°	401.7	250.4	142.9	126.7	126.5	132.2	131.6	119.1	112.7	110.4	109.8
45°	423.4	247.8	132.5	120.2	123.5	127.8	125.5	113.9	111.3	109.9	109.4
47.5°	457.5	249.2	123.0	115.0	120.4	123.4	114.1	111.8	109.9	108.3	107.8
50°	500.3	248.4	115.3	111.4	116.9	118.8	109.0	109.1	108.1	106.3	105.4
52.5°	532.4	242.4	110.3	109.4	113.8	110.6	105.8	106.4	105.9	103.3	102.4
55°	563.5	237.2	107.8	108.6	111.5	100.3	102.0	103.5	103.1	100.5	100.0
57.5°	602.1	236.2	106.2	108.8	109.6	95.2	98.4	100.4	100.0	98.9	98.7
60°	649.4	236.5	104.8	109.2	107.5	91.4	94.9	97.5	97.7	97.5	97.4
62.5°	675.5	228.8	101.3	108.2	103.8	88.1	91.3	95.1	95.2	95.6	95.6
65°	653.4	206.0	94.8	104.7	97.6	85.4	88.3	92.4	91.3	93.2	93.2
66°	631.9	192.8	91.6	102.5	94.9	84.3	87.3	91.0	89.7	92.3	92.3
67.5°	588.1	170.6	85.7	97.7	91.1	82.9	86.2	88.7	86.9	90.7	90.4
70°	508.0	131.9	74.0	86.9	84.9	80.7	84.6	84.1	81.4	87.3	86.2
72.5°	428.3	100.2	59.4	72.8	75.4	78.0	82.4	78.2	74.8	78.9	76.5
75°	332.4	75.4	47.0	56.6	63.7	73.7	79.8	71.4	66.5	66.1	64.8
77.5°	179.7	51.7	37.2	43.2	50.6	68.4	78.1	64.1	56.8	55.1	54.1
80°	71.2	33.7	27.1	32.7	35.4	60.6	73.9	55.6	46.8	45.1	43.5
82.5°	29.4	19.9	17.5	21.9	23.1	51.9	66.3	45.6	36.2	50.1	53.1
85°	12.6	10.9	10.4	11.4	13.0	36.4	52.8	34.8	39.0	34.8	27.7
87.5°	3.8	4.6	4.4	4.3	4.8	8.7	28.1	19.3	28.7	10.9	8.1
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)