

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: P349010

Luminaire Tested: **ARCH-N-PA1-19-827-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-827-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1585 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

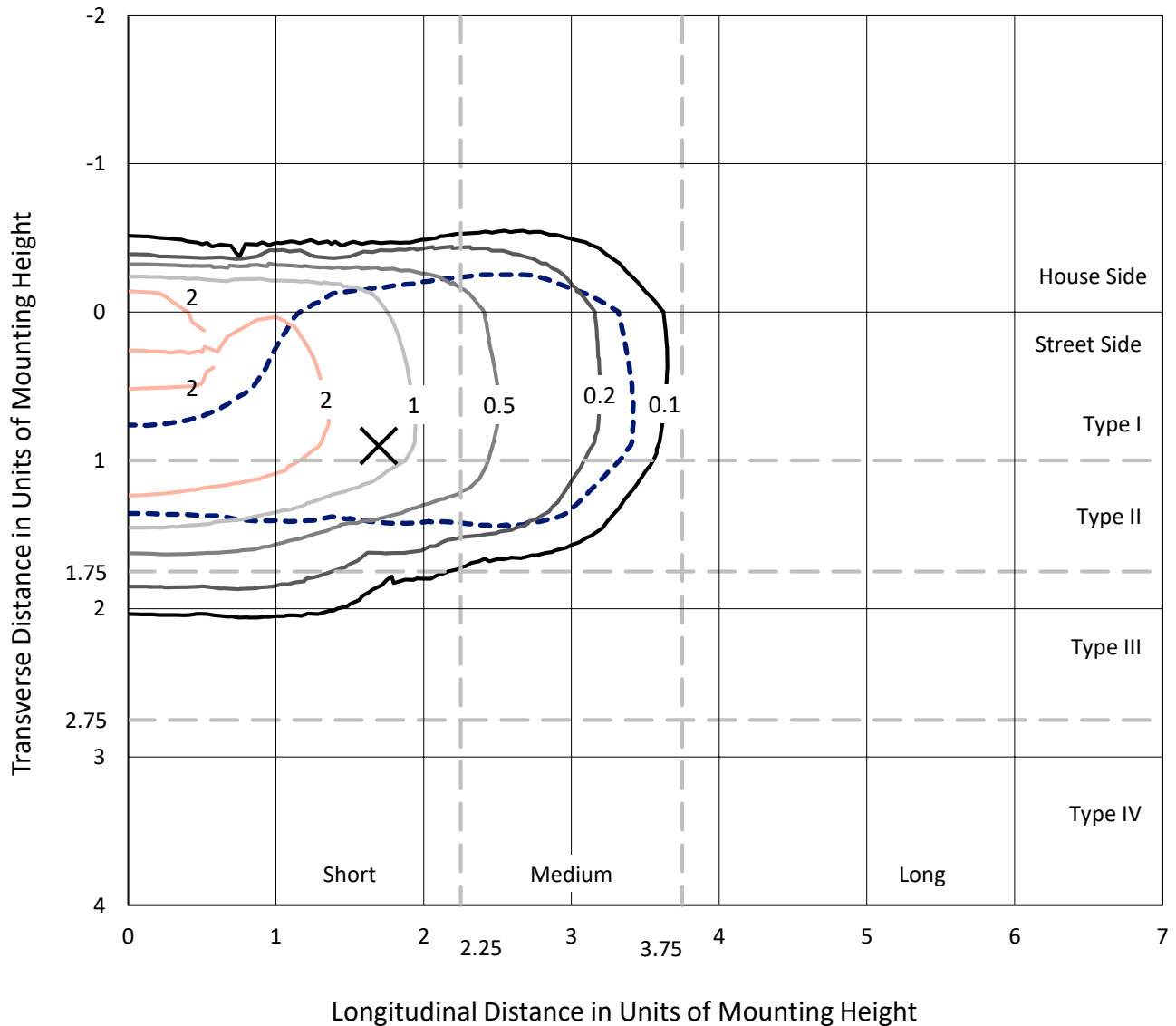
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

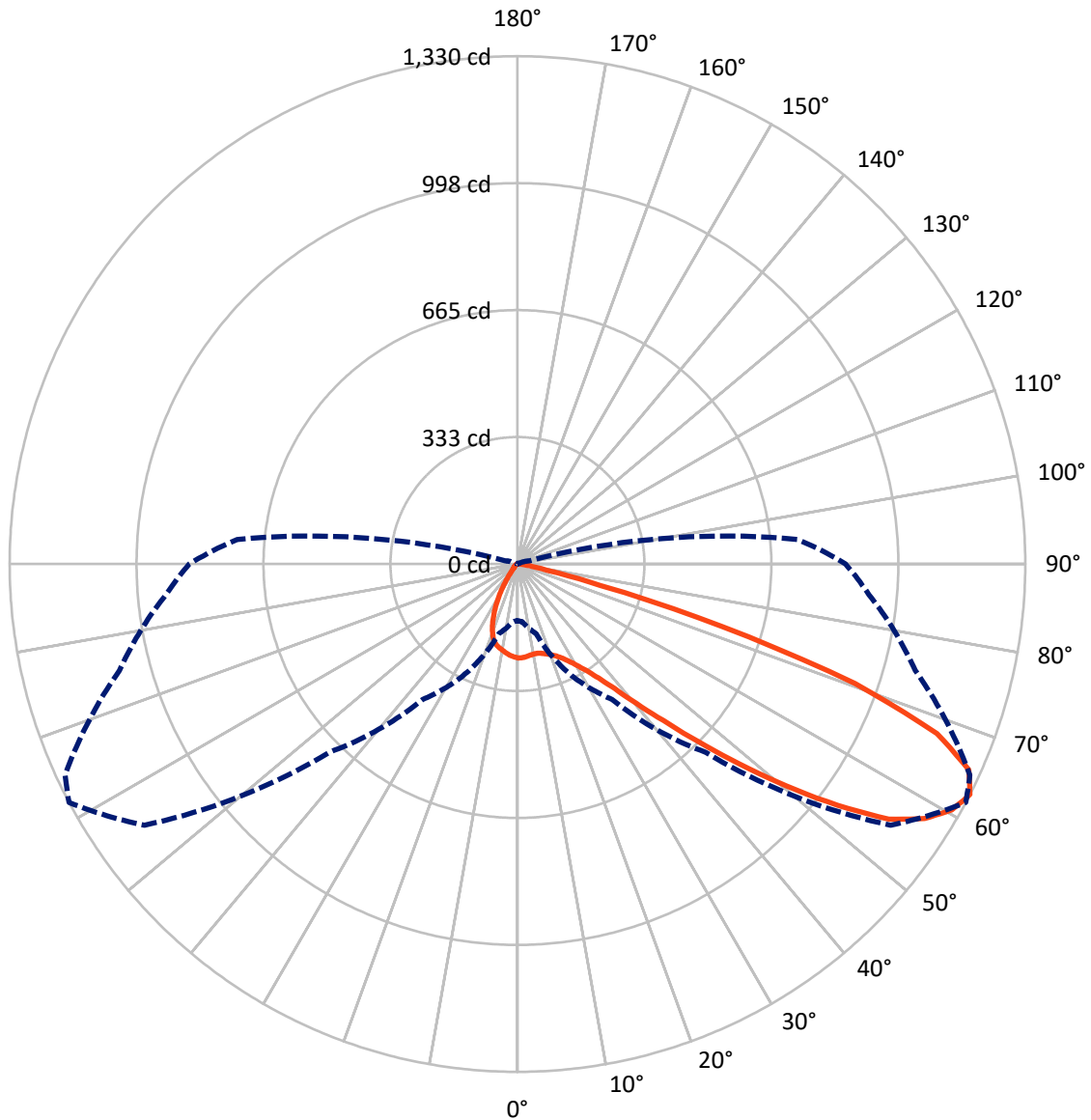
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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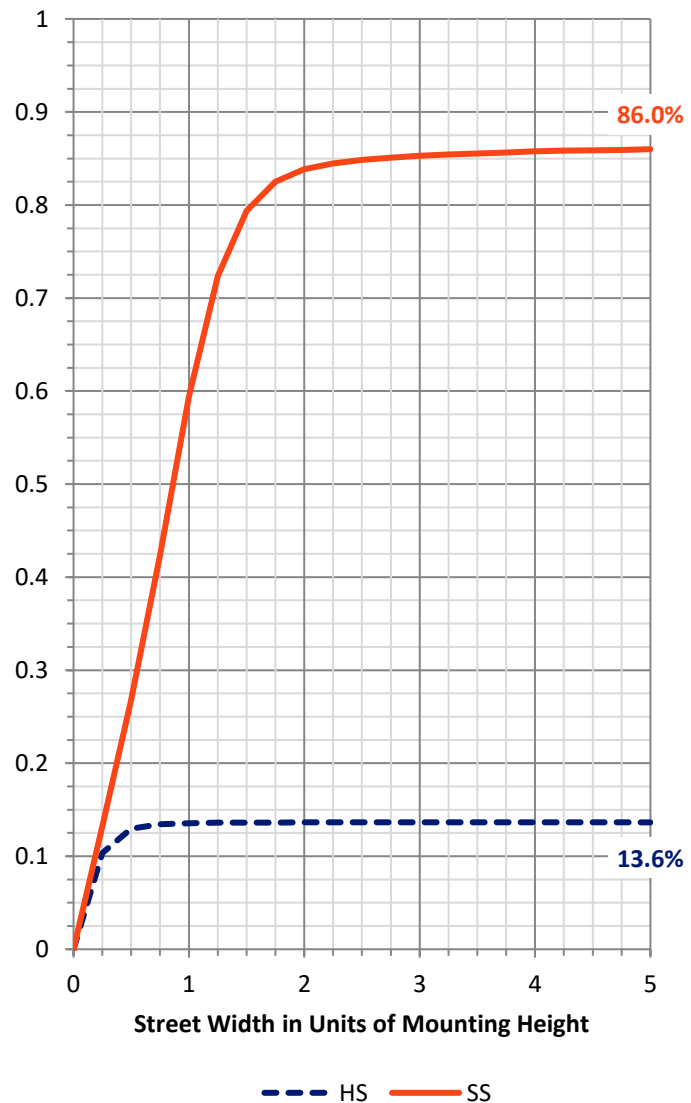
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.8	0.0	218.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1366.1	0.0	1366.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	1585.0	0.0	1585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	1.4
10°-20°	56.3	3.6
20°-30°	84.1	5.3
30°-40°	160.2	10.1
40°-50°	334.0	21.1
50°-60°	443.7	28.0
60°-70°	345.9	21.8
70°-80°	130.7	8.2
80°-90°	7.8	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°	1585.0	100.0
0°-180°	1585.0	100.0

Coefficient of Utilization



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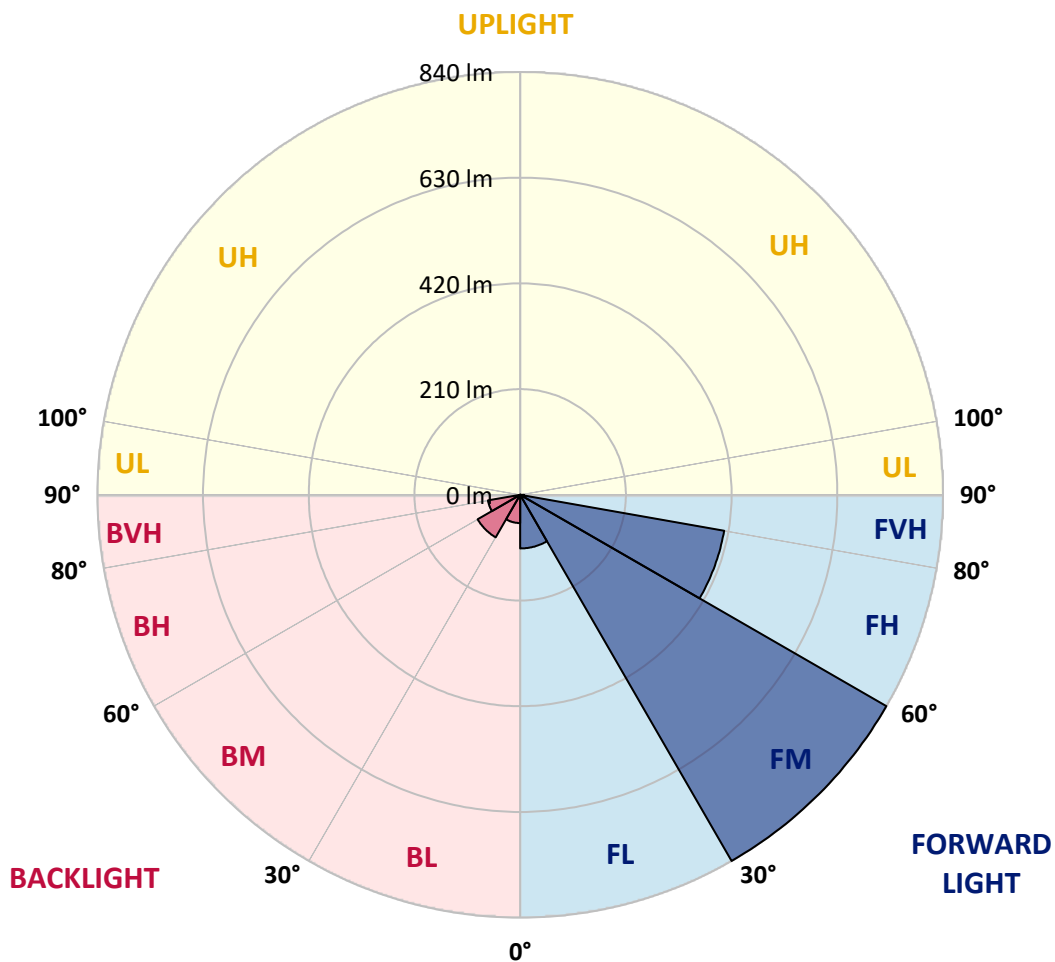
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.7	6.7			
FM (30°-60°)	840.4	53.0			
FH (60°-80°)	411.7	26.0			G0/660
FVH (80°-90°)	7.5	0.5			G0/10
BL (0°-30°)	56.1	3.5	B0/110		
BM (30°-60°)	97.4	6.1	B0/220		
BH (60°-80°)	64.9	4.1	B0/110		G0/110
BVH (80°-90°)	0.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2
2.5°	245.4	245.0	246.0	246.0	245.8	246.2	245.8	245.6	245.4	245.0	244.6
5°	239.0	239.0	240.4	241.1	241.7	242.9	243.3	243.8	243.6	244.0	244.2
7.5°	231.5	232.0	233.6	234.4	235.5	238.0	239.4	241.1	241.3	242.7	243.6
10°	225.3	225.7	227.4	228.4	229.9	233.2	236.3	239.2	239.6	242.3	242.9
12.5°	221.2	221.6	223.3	224.7	227.8	232.0	236.3	239.6	240.7	244.0	244.0
15°	219.5	219.9	222.0	224.5	228.6	234.0	239.4	242.9	245.0	247.7	246.4
17.5°	218.9	219.7	223.3	227.0	231.5	237.3	244.0	247.7	249.8	252.7	250.0
20°	220.8	221.8	226.4	231.5	236.3	242.3	249.6	253.7	255.8	257.6	252.5
22.5°	227.4	229.1	233.0	238.8	242.5	249.8	257.0	261.8	264.1	263.8	257.0
25°	243.3	245.4	247.3	250.4	252.0	260.7	268.4	273.2	274.8	274.2	266.3
27.5°	281.0	283.7	277.1	270.3	266.5	274.6	283.1	288.1	289.5	288.3	276.3
30°	344.6	344.8	329.7	308.2	292.2	291.4	301.7	308.4	308.4	305.9	290.4
32.5°	437.2	430.6	411.5	373.4	337.4	318.5	326.4	332.8	332.8	329.7	311.9
35°	553.6	548.6	517.1	471.4	407.2	362.0	360.4	366.6	366.8	365.9	345.7
37.5°	672.0	659.8	633.5	578.6	503.3	428.9	409.0	413.4	416.5	416.1	390.8
40°	782.2	770.0	747.8	695.0	621.3	527.5	479.9	479.9	480.1	478.0	447.5
42.5°	868.8	863.2	846.6	810.0	753.0	682.6	575.3	559.6	556.3	554.2	514.2
45°	924.9	919.1	910.2	902.5	884.1	858.8	703.5	662.3	656.9	636.6	588.0
47.5°	928.0	919.1	925.1	954.1	995.7	1008.8	861.7	782.0	767.7	731.1	661.9
50°	858.8	859.7	883.1	953.5	1065.9	1140.3	1029.5	913.7	891.2	817.8	727.1
52.5°	731.7	740.0	776.2	884.5	1069.3	1224.4	1175.5	1049.6	1004.9	895.7	773.1
55°	572.8	580.3	639.5	756.7	988.7	1236.4	1281.7	1179.6	1120.4	950.0	814.3
57.5°	405.1	419.2	492.7	600.4	835.0	1144.6	1310.7	1257.5	1200.1	1002.8	853.0
60°	246.2	253.3	329.7	455.0	629.4	952.7	1276.8	1307.2	1260.8	1048.5	889.3
62.5°	148.1	152.2	188.9	313.3	433.0	697.5	1192.7	1330.0	1307.2	1079.0	924.1
65°	87.6	90.3	107.5	189.3	288.5	427.9	1011.1	1298.7	1317.2	1105.3	944.4
67.5°	63.2	64.0	70.2	101.9	193.6	229.3	703.1	1184.8	1253.8	1114.0	932.4
70°	54.5	55.5	61.5	71.7	137.1	135.2	365.9	937.8	1062.8	1068.6	881.6
72.5°	41.2	43.1	53.0	67.3	98.4	96.1	137.9	559.2	721.5	877.3	760.1
75°	28.0	29.0	39.3	57.2	76.8	71.7	72.3	224.5	352.9	550.1	522.3
77.5°	17.6	18.4	24.0	41.0	65.9	50.5	51.2	79.7	127.4	233.2	223.9
80°	12.0	12.4	14.5	26.5	44.5	43.9	32.9	41.6	47.4	71.9	48.3
82.5°	7.2	7.2	9.5	15.7	26.9	34.8	20.7	23.0	25.3	26.7	11.0
85°	2.5	2.7	5.8	9.7	16.6	17.4	11.8	13.7	14.3	15.5	5.2
87.5°	1.0	0.8	3.1	5.4	7.0	8.1	6.8	6.2	6.8	9.1	2.3
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°	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2	246.2
2.5°	244.8	244.0	244.0	243.8	242.5	241.9	241.3	239.6	240.7	239.4	238.6
5°	243.6	242.9	241.9	240.9	238.0	235.5	234.4	232.4	232.2	230.5	229.7
7.5°	243.3	241.9	240.2	236.7	232.4	228.4	224.9	221.4	219.9	218.1	217.0
10°	242.3	240.4	237.3	231.7	225.3	219.1	211.2	201.5	194.3	190.1	189.5
12.5°	242.5	240.4	235.7	227.4	218.9	205.2	184.1	162.0	143.7	136.1	134.8
15°	244.2	241.9	234.6	223.5	209.0	178.9	140.2	106.2	82.6	74.1	72.3
17.5°	246.2	242.3	232.4	217.9	189.9	138.8	88.2	55.7	42.5	37.7	36.9
20°	247.5	242.1	228.6	209.4	160.9	92.8	48.0	32.7	28.8	27.8	27.3
22.5°	250.6	242.7	225.5	196.1	124.5	55.9	30.4	25.5	23.2	22.0	21.7
25°	257.0	246.9	225.7	178.9	87.2	33.8	24.6	20.7	18.6	17.4	17.0
27.5°	266.3	254.3	229.7	157.6	53.8	25.5	20.5	16.8	14.5	13.5	13.3
30°	278.1	263.4	234.2	129.9	33.6	21.3	16.6	13.0	11.4	10.8	10.6
32.5°	296.8	279.2	238.2	97.1	23.2	17.6	13.0	10.4	9.3	8.7	8.7
35°	327.6	306.3	244.6	65.0	18.4	14.1	10.6	8.5	7.7	7.2	7.2
37.5°	371.1	345.0	247.7	40.4	15.1	11.0	8.5	7.0	6.4	6.0	6.0
40°	424.1	392.0	243.3	25.1	12.6	8.9	7.0	6.0	5.4	5.2	5.2
42.5°	485.2	446.1	229.7	17.8	10.6	7.2	6.0	5.2	4.8	4.6	4.6
45°	553.6	505.3	205.0	14.9	8.9	6.2	5.2	4.3	4.1	3.9	3.9
47.5°	621.7	565.4	173.1	12.8	7.5	5.2	4.3	3.7	3.5	3.3	3.3
50°	681.2	618.0	139.4	11.2	6.2	4.6	3.7	3.1	2.9	2.7	2.7
52.5°	715.1	649.3	107.9	9.3	5.4	3.9	2.9	2.5	2.3	2.1	2.1
55°	751.8	675.4	80.6	7.9	4.3	3.3	2.3	1.9	1.7	1.4	1.4
57.5°	785.9	698.8	59.9	6.4	3.7	2.5	1.9	1.4	1.2	1.0	1.0
60°	819.1	718.6	44.3	5.2	3.1	2.1	1.4	1.0	0.8	0.6	0.6
62.5°	859.5	736.9	32.5	4.1	2.7	1.4	1.0	0.6	0.4	0.2	0.2
65°	889.5	746.2	24.4	3.1	2.3	1.0	0.6	0.4	0.0	0.0	0.0
67.5°	889.3	728.2	17.8	2.3	1.7	0.8	0.4	0.0	0.0	0.0	0.0
70°	847.7	673.5	12.4	1.9	1.2	0.6	0.2	0.0	0.0	0.0	0.0
72.5°	726.9	532.7	8.1	1.2	1.0	0.4	0.2	0.0	0.0	0.0	0.0
75°	490.6	270.5	4.8	1.0	0.8	0.4	0.2	0.0	0.0	0.0	0.0
77.5°	209.8	106.2	2.5	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0
80°	43.9	25.7	1.0	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	3.7	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.2	0.2	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)