

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: P798600

Luminaire Tested: **ARCH1-20-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2306 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 23.5
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: 24 FT

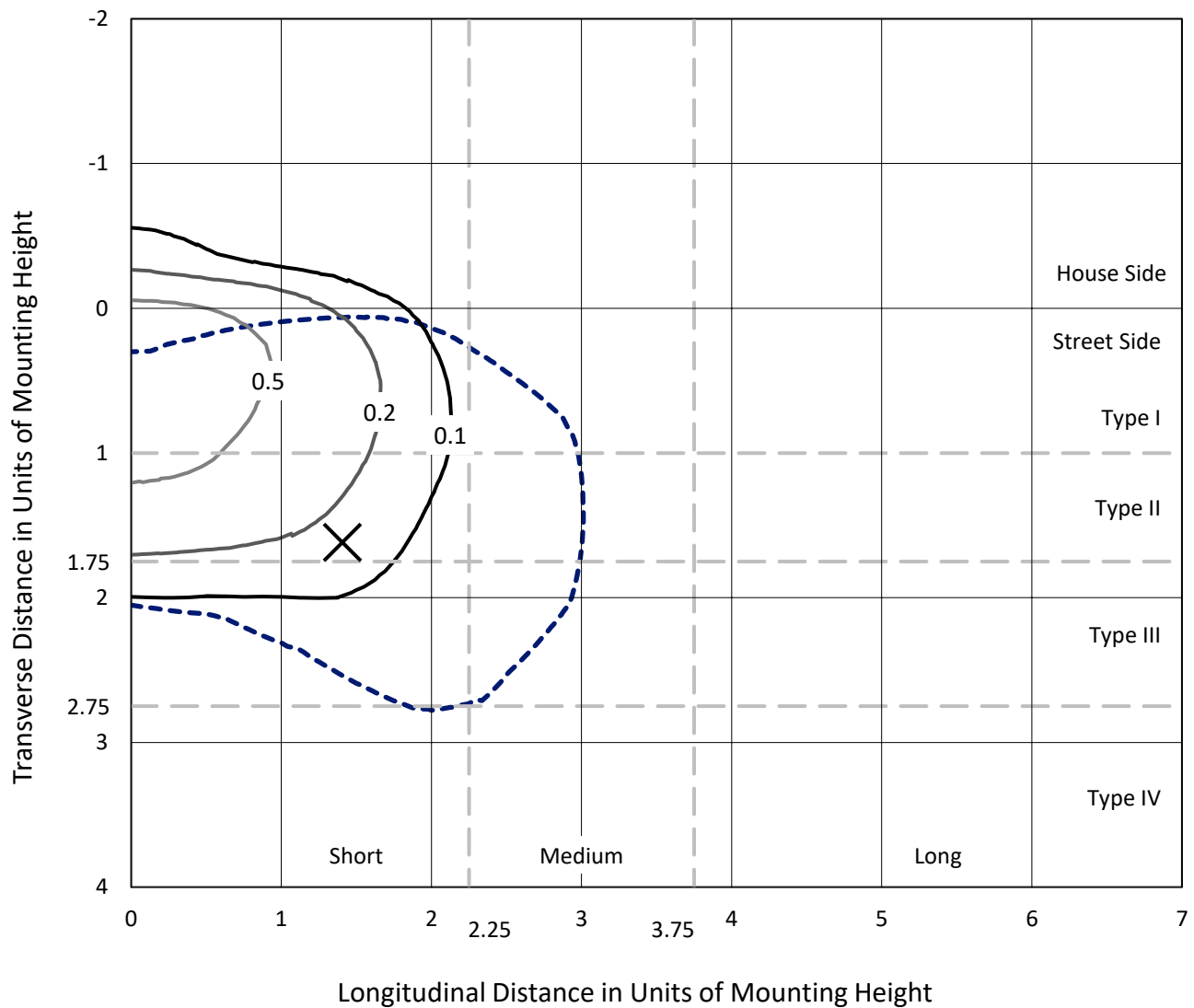


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Iso-Footcandle Lines of Horizontal Illumination

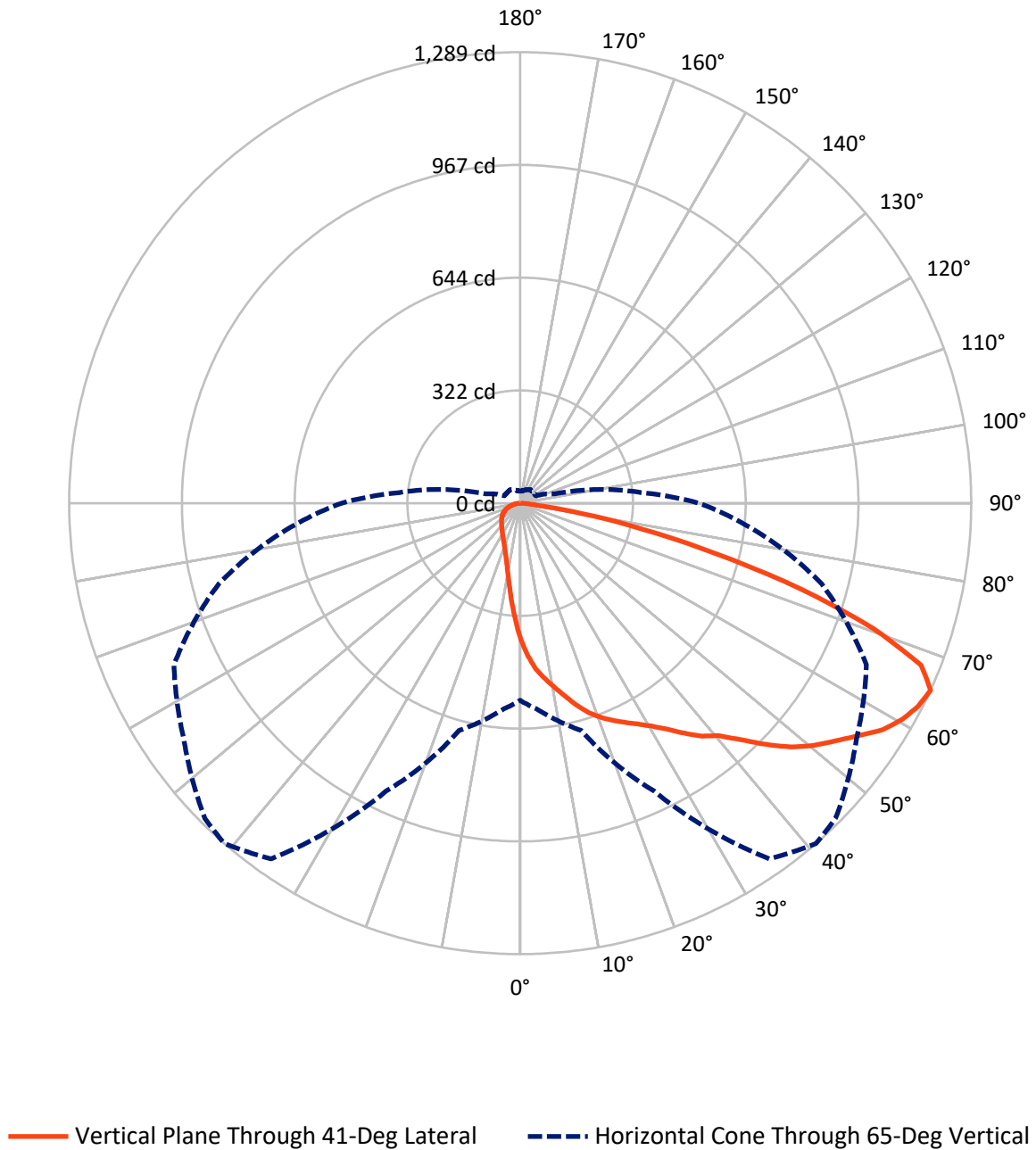
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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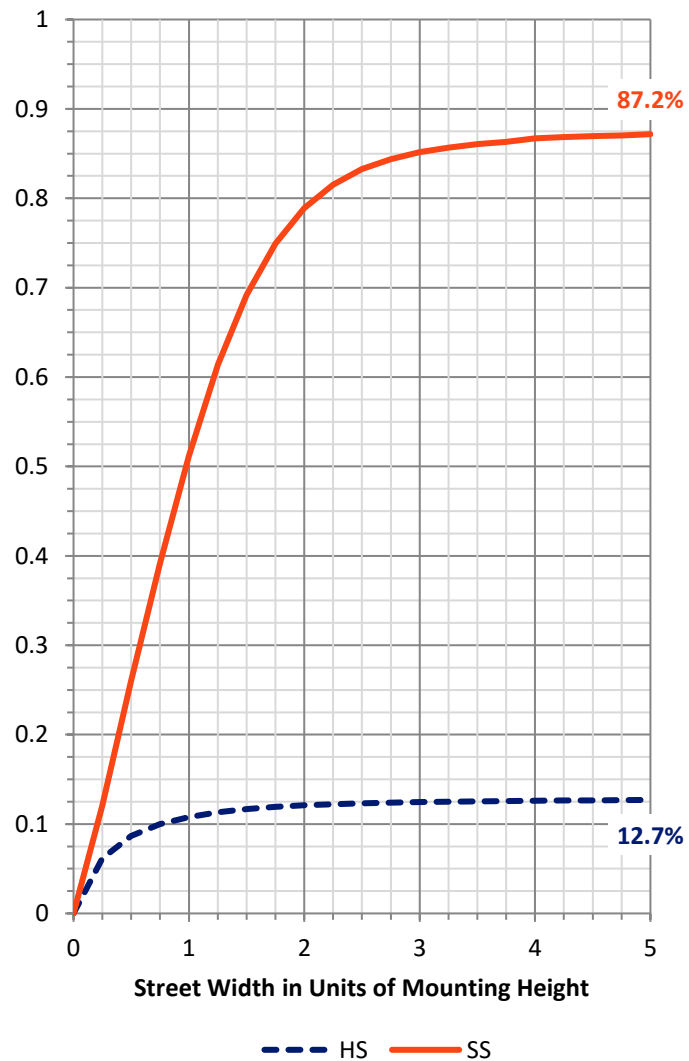
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	296.1	0.0	296.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2009.9	0.0	2009.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	2306.0	0.0	2306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	1.6
10°-20°	109.8	4.8
20°-30°	188.9	8.2
30°-40°	286.4	12.4
40°-50°	419.6	18.2
50°-60°	529.9	23.0
60°-70°	496.9	21.5
70°-80°	221.5	9.6
80°-90°	16.4	0.7
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°	2306.0	100.0
0°-180°	2306.0	100.0

Coefficient of Utilization



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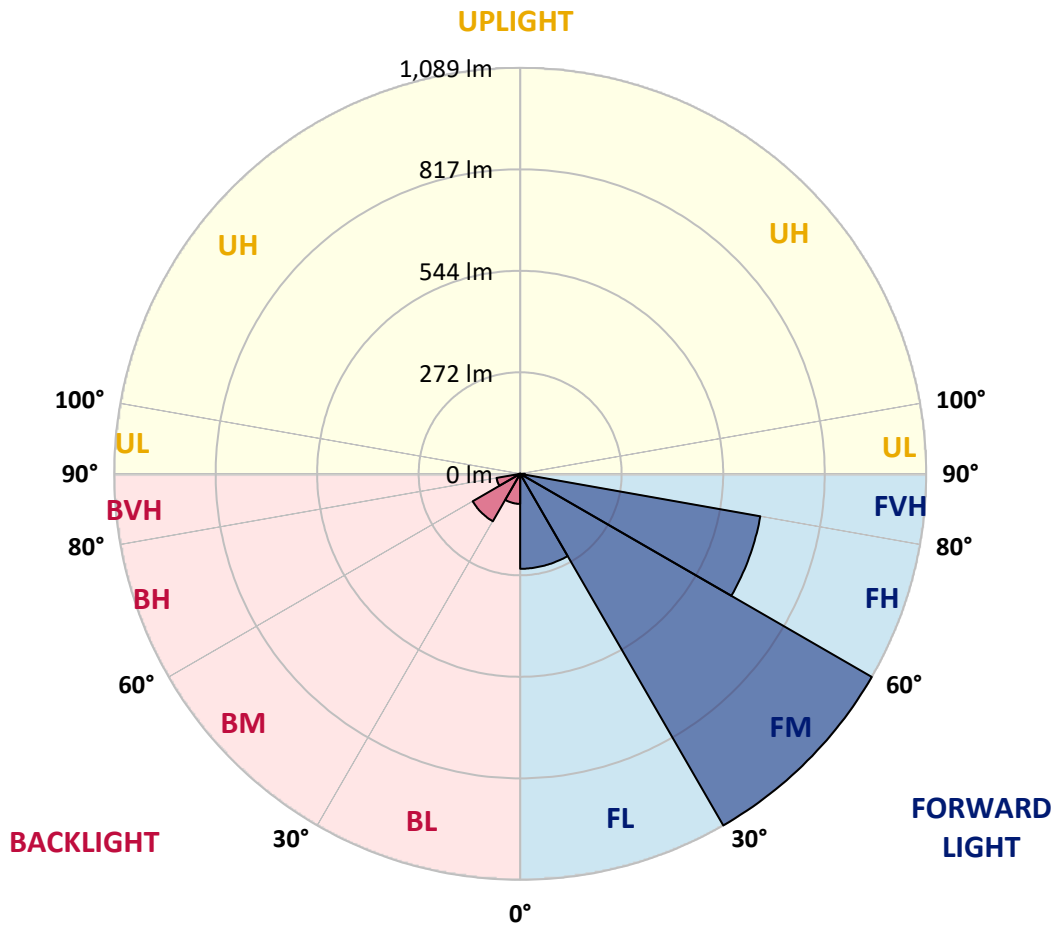
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

				Zone Rating/Lumen Limit		
Zone		Lumens	% Fixture	B	U	G
FL	(0°-30°)	254.7	11.0			
FM	(30°-60°)	1089.0	47.2			
FH	(60°-80°)	654.0	28.4			G0/660
FVH	(80°-90°)	12.3	0.5			G1/100
BL	(0°-30°)	80.6	3.5	B0/110		
BM	(30°-60°)	147.0	6.4	B0/220		
BH	(60°-80°)	64.3	2.8	B0/110		G0/110
BVH	(80°-90°)	4.2	0.2			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9
2.5°	453.2	451.8	450.8	445.5	445.5	438.2	438.6	431.8	423.6	410.4	396.3
5°	496.0	494.1	491.6	486.3	484.4	477.1	476.1	466.4	452.3	429.4	404.1
7.5°	533.5	531.5	528.1	520.3	515.0	506.2	503.8	491.2	475.6	447.4	411.9
10°	567.5	566.1	561.7	552.0	544.7	534.0	529.6	512.6	493.1	462.0	418.2
12.5°	602.0	600.1	594.3	586.0	577.2	564.6	559.2	537.4	512.6	478.0	427.5
15°	634.1	631.2	626.8	618.1	610.3	598.1	592.3	566.5	536.4	496.0	439.6
17.5°	655.0	652.6	648.7	643.9	637.5	628.3	622.5	597.2	560.2	513.5	452.3
20°	667.7	666.7	665.3	662.3	659.4	653.1	648.7	624.9	586.0	530.6	464.4
22.5°	677.4	676.4	676.0	676.0	676.4	674.0	671.1	650.7	610.8	548.5	475.6
25°	692.5	692.0	691.0	690.1	693.5	694.0	693.0	678.9	641.9	572.4	489.7
27.5°	713.4	711.9	710.0	709.0	712.4	714.9	716.8	707.1	675.0	596.7	505.8
30°	745.5	741.1	736.3	732.9	735.3	739.2	743.6	737.7	709.0	626.8	522.3
32.5°	783.4	778.1	766.9	760.6	766.9	769.8	773.2	770.3	744.5	659.4	538.8
35°	829.6	823.3	811.6	802.4	813.6	807.3	805.8	802.9	778.1	691.5	557.3
37.5°	906.5	897.2	878.7	858.3	858.3	844.7	839.4	830.6	808.2	720.2	575.3
40°	995.5	983.3	959.5	929.3	901.6	873.4	870.0	863.7	843.7	753.3	595.7
42.5°	1093.2	1069.9	1036.8	1000.3	955.6	923.5	915.7	897.7	878.3	786.8	616.1
45°	1201.6	1153.0	1104.9	1086.4	1012.5	983.3	968.7	936.1	914.2	821.8	637.5
47.5°	1219.2	1181.2	1149.1	1146.2	1065.5	1041.2	1024.6	977.9	953.1	859.3	659.9
50°	1209.4	1186.6	1190.0	1178.3	1104.4	1088.3	1075.7	1022.7	991.6	895.3	680.3
52.5°	1168.6	1181.2	1200.7	1179.3	1141.3	1128.2	1121.9	1070.8	1027.6	928.3	698.8
55°	1119.9	1128.7	1170.5	1196.8	1184.1	1172.5	1166.6	1126.8	1063.1	956.1	715.8
57.5°	1048.9	1045.1	1091.3	1193.9	1228.9	1222.1	1215.7	1181.7	1096.1	976.0	726.5
60°	942.4	934.2	992.5	1135.5	1243.5	1254.2	1251.2	1218.2	1121.4	975.5	722.2
62.5°	758.1	778.6	859.3	1040.2	1249.8	1277.0	1271.7	1221.1	1129.7	947.3	694.4
65°	563.6	592.8	672.1	908.9	1241.0	1288.7	1274.1	1173.4	1091.3	891.4	633.6
67.5°	406.1	431.8	489.7	747.9	1156.9	1235.2	1218.2	1095.6	1002.8	812.1	549.5
70°	277.7	296.2	335.5	544.7	987.7	1067.9	1057.2	979.4	863.2	717.8	446.4
72.5°	196.0	203.8	229.0	359.4	750.4	837.9	825.3	805.8	693.5	596.7	347.2
75°	146.9	151.7	165.3	232.5	506.2	580.6	569.0	580.2	517.9	451.8	252.9
77.5°	55.4	60.3	93.9	148.3	299.6	356.5	344.8	351.6	287.9	228.1	126.0
80°	15.1	16.0	31.1	70.5	136.2	177.5	161.5	138.6	107.0	105.0	66.6
82.5°	6.3	7.3	14.1	37.9	48.6	48.6	40.8	50.6	40.8	49.1	32.1
85°	2.4	2.9	3.4	9.7	6.3	6.8	7.3	9.7	8.3	10.2	7.3
87.5°	0.0	0.0	0.0	0.5	0.5	1.0	0.5	1.0	1.5	1.5	1.5
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°	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9	392.9
2.5°	390.5	385.1	377.4	364.7	351.6	344.3	335.1	333.6	323.9	322.9	319.0
5°	392.9	381.7	361.8	337.5	313.7	295.2	281.6	274.3	260.2	260.2	256.3
7.5°	394.9	377.4	345.3	309.3	276.7	251.9	233.4	225.6	213.0	212.0	209.1
10°	395.4	372.0	327.3	280.6	240.7	215.4	197.4	188.7	177.5	176.5	174.6
12.5°	399.3	369.1	311.2	255.8	214.9	187.7	170.2	162.9	154.2	153.2	151.2
15°	405.6	369.1	297.6	234.9	192.1	166.8	151.7	144.9	138.6	137.6	136.7
17.5°	411.9	368.1	284.0	215.4	173.1	150.3	137.1	131.8	126.9	126.4	125.5
20°	417.7	367.6	270.4	198.9	158.5	136.7	126.4	121.6	117.7	117.7	117.2
22.5°	423.6	366.7	257.3	183.3	145.9	126.4	117.7	112.3	109.4	109.4	108.9
25°	432.3	366.7	245.1	170.2	135.7	118.7	109.9	106.0	103.6	103.1	103.1
27.5°	442.5	369.6	234.4	158.5	126.9	110.9	104.1	100.2	97.3	96.3	96.8
30°	453.7	372.0	224.7	148.3	118.7	105.0	97.7	93.9	90.9	90.0	90.5
32.5°	464.9	374.9	215.9	139.1	110.4	99.7	92.4	88.0	85.1	84.6	84.6
35°	477.1	377.9	207.2	131.3	103.6	94.3	87.5	82.7	80.7	79.8	80.2
37.5°	489.2	382.7	198.9	124.0	98.7	89.5	83.2	78.3	76.8	76.3	76.3
40°	503.8	390.0	195.5	119.1	94.3	85.1	79.8	74.9	73.4	73.4	73.4
42.5°	516.0	395.8	192.6	113.8	90.9	81.2	76.3	72.5	71.5	71.0	71.5
45°	528.1	401.2	188.7	108.9	86.6	77.3	73.4	69.5	68.6	68.6	68.6
47.5°	540.3	404.1	183.3	104.1	82.7	73.9	70.5	67.1	66.1	66.1	66.1
50°	550.0	406.5	175.6	98.7	78.3	71.0	67.6	64.2	63.2	63.2	63.2
52.5°	559.7	407.0	167.3	92.4	73.9	67.6	64.7	61.3	60.3	59.8	59.8
55°	568.5	406.5	157.6	85.1	69.1	63.7	61.3	58.4	56.4	54.5	55.4
57.5°	574.8	406.1	146.4	77.8	64.2	59.8	58.8	55.0	51.1	46.2	47.2
60°	572.4	400.7	134.2	68.6	58.8	55.9	55.9	50.6	43.8	41.3	41.8
62.5°	556.8	385.6	121.6	58.8	53.5	52.0	51.5	45.7	40.4	37.9	38.4
65°	510.1	347.7	103.1	50.1	48.1	47.7	47.7	42.3	37.4	34.5	35.0
67.5°	439.1	291.8	84.1	42.3	42.8	43.8	43.8	38.9	34.0	31.1	31.6
70°	352.1	228.1	67.1	36.5	37.0	38.4	39.4	35.0	30.6	27.7	27.7
72.5°	265.0	173.1	54.0	30.6	33.1	33.1	34.5	31.1	26.7	23.8	24.3
75°	192.1	124.0	42.8	25.8	28.7	28.2	28.2	26.3	22.9	20.9	20.9
77.5°	90.9	65.2	34.0	18.5	22.4	21.9	22.4	20.9	19.5	17.5	18.0
80°	44.7	32.1	21.9	13.1	15.6	16.0	17.5	16.5	16.0	14.6	14.6
82.5°	21.4	12.6	10.2	9.2	10.7	11.2	12.2	12.2	12.6	11.7	11.7
85°	5.8	3.4	4.4	5.8	6.8	7.3	8.3	8.8	8.8	8.3	8.8
87.5°	1.5	1.5	1.9	2.9	3.4	3.9	4.4	4.4	1.9	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)