

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: P348527

Luminaire Tested: **ARCH-N-PA1-19-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348527
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-PA1-19-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

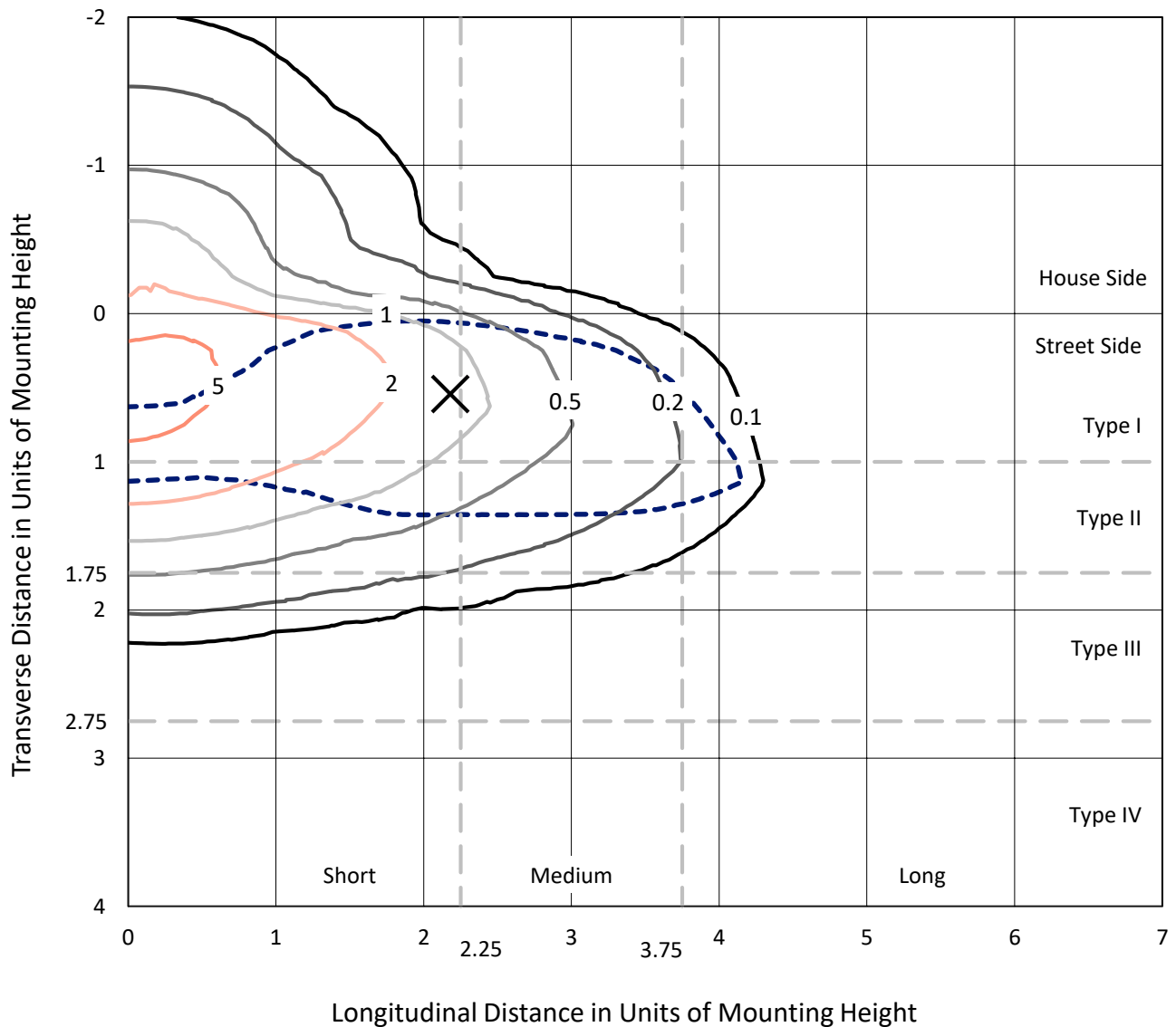
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

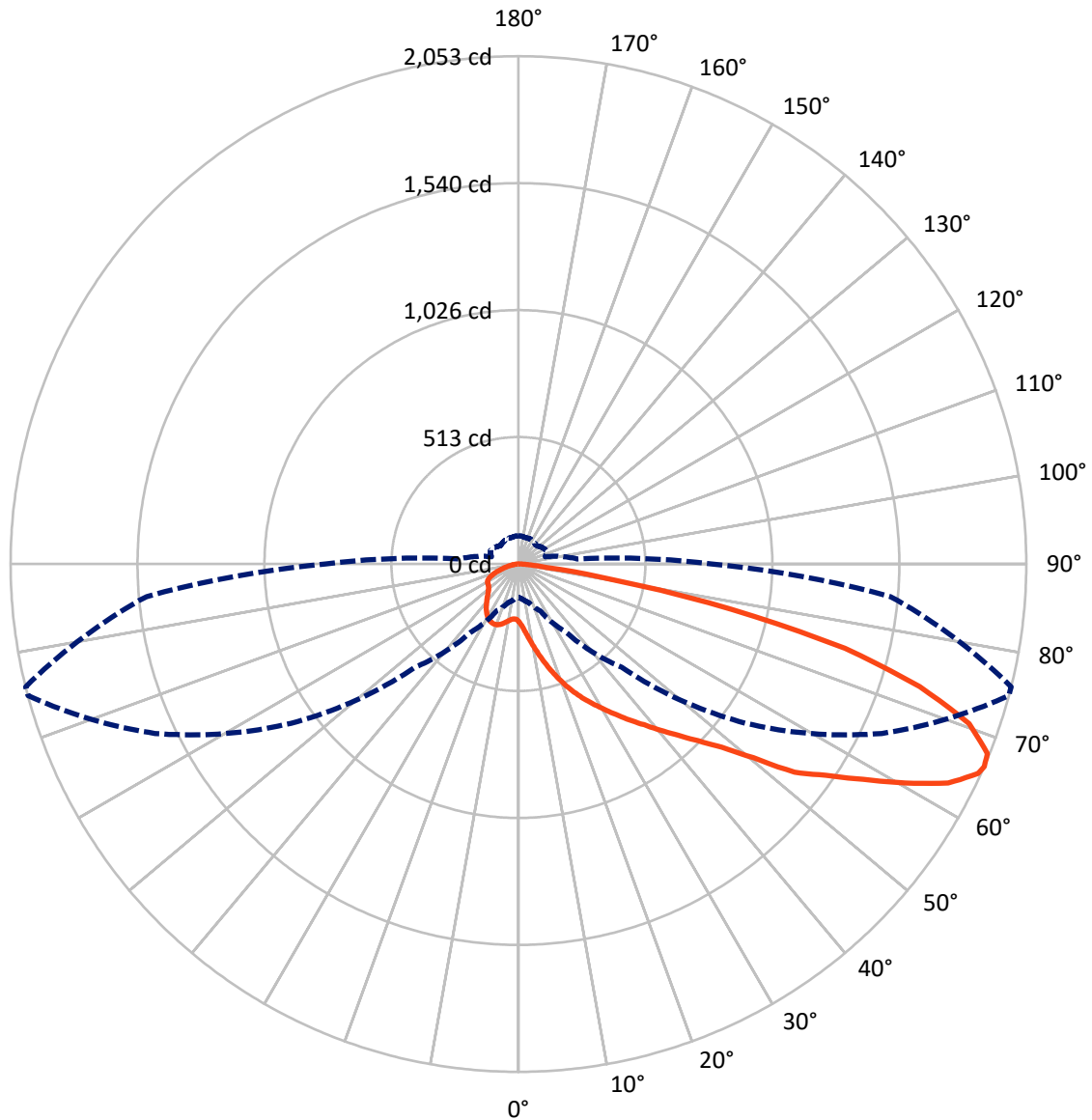
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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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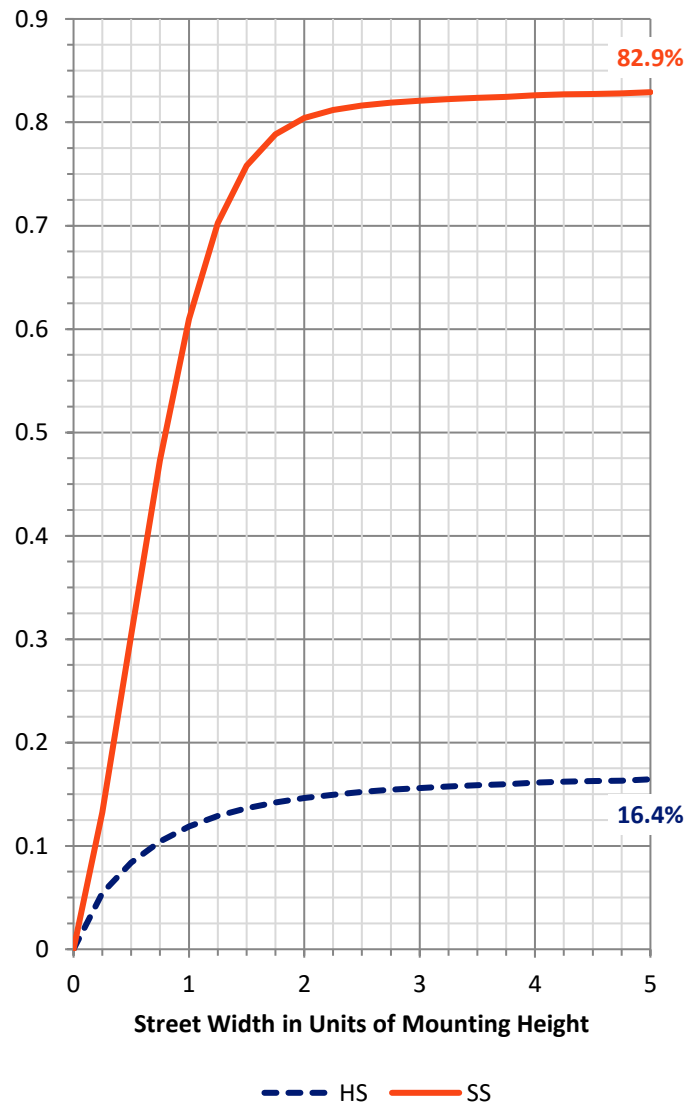
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.1	0.0	428.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2115.9	0.0	2115.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	2544.0	0.0	2544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.1
10°-20°	110.9	4.4
20°-30°	215.6	8.5
30°-40°	351.9	13.8
40°-50°	480.8	18.9
50°-60°	560.0	22.0
60°-70°	502.0	19.7
70°-80°	253.7	10.0
80°-90°	41.0	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°	2544.0	100.0
0°-180°	2544.0	100.0

Coefficient of Utilization



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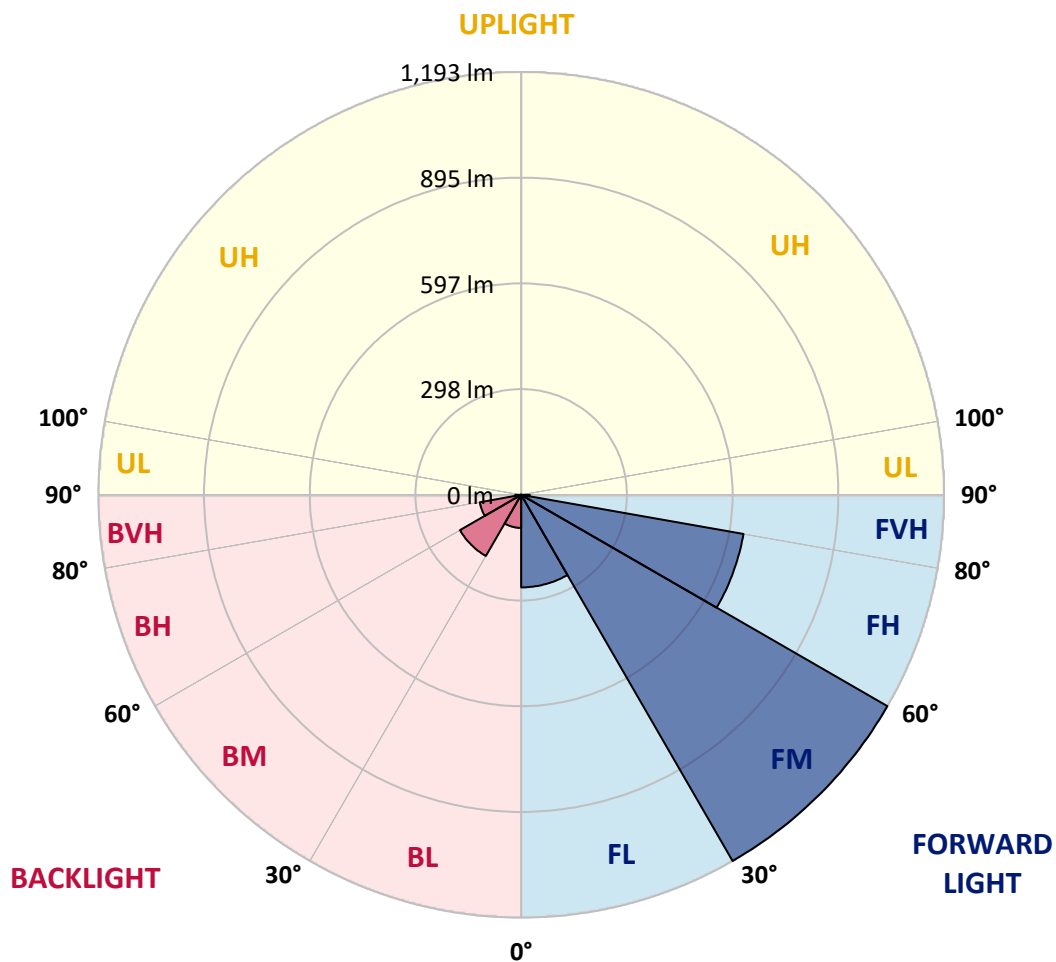
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.3	10.3			
FM (30°-60°)	1193.3	46.9			
FH (60°-80°)	637.2	25.0			G0/660
FVH (80°-90°)	24.2	1.0			G1/100
BL (0°-30°)	93.4	3.7	B0/110		
BM (30°-60°)	199.3	7.8	B0/220		
BH (60°-80°)	118.6	4.7	B1/500		G1/500
BVH (80°-90°)	16.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3
2.5°	308.4	303.7	303.3	296.5	294.9	281.9	272.3	262.3	250.9	248.6	239.7
5°	396.2	395.7	389.8	378.6	369.9	347.6	325.6	302.3	276.7	272.6	252.4
7.5°	475.1	474.4	469.8	457.8	445.2	417.8	386.4	350.6	309.2	303.1	269.5
10°	535.0	534.8	533.2	524.4	513.7	487.4	452.7	403.9	346.9	338.6	291.1
12.5°	581.3	581.8	582.9	579.8	574.7	552.3	516.7	460.4	387.2	378.9	315.0
15°	612.7	614.2	619.6	624.0	626.7	612.9	578.5	518.2	432.3	422.3	341.5
17.5°	628.5	630.2	639.5	652.8	665.0	663.6	636.3	573.3	475.5	465.9	370.0
20°	642.1	643.4	653.8	669.8	691.4	701.0	685.7	626.3	522.9	511.5	400.2
22.5°	681.7	683.3	686.4	695.5	714.7	732.3	724.9	676.5	566.4	555.8	428.9
25°	758.0	760.0	753.3	745.6	749.2	761.5	762.9	722.3	610.4	598.4	459.7
27.5°	850.0	852.9	841.4	821.6	804.3	799.6	797.9	759.8	652.5	638.6	490.2
30°	940.1	945.0	930.1	904.4	872.7	850.4	834.0	796.5	694.0	680.7	519.0
32.5°	1028.1	1026.1	1004.4	979.4	942.3	914.4	874.5	835.9	740.6	725.3	547.6
35°	1088.4	1089.1	1069.0	1039.2	1003.8	982.4	928.7	878.3	788.2	774.1	580.0
37.5°	1139.7	1136.5	1113.7	1086.0	1055.5	1046.3	992.2	925.2	839.7	824.4	614.6
40°	1156.8	1153.1	1138.1	1118.2	1093.7	1093.0	1062.2	978.2	898.0	882.8	653.5
42.5°	1146.4	1141.7	1135.5	1130.1	1122.6	1126.0	1128.0	1040.4	962.1	945.1	698.6
45°	1108.2	1101.0	1105.3	1117.1	1133.5	1153.0	1187.4	1109.2	1033.9	1019.6	751.6
47.5°	1049.3	1042.9	1056.3	1081.6	1126.0	1175.4	1243.7	1185.2	1119.6	1105.4	827.0
50°	966.6	968.5	987.8	1033.8	1100.9	1185.8	1312.9	1285.8	1244.1	1230.9	929.8
52.5°	830.8	831.2	885.4	961.0	1056.3	1180.5	1351.4	1414.4	1414.2	1398.2	1027.8
55°	704.7	712.4	755.4	855.8	984.1	1159.0	1378.2	1476.9	1525.8	1507.1	1119.0
57.5°	581.6	586.1	626.8	727.6	881.1	1101.9	1405.8	1552.0	1654.5	1642.7	1232.5
60°	441.5	448.4	490.5	583.7	749.3	1000.6	1408.4	1630.3	1808.3	1796.4	1359.2
62.5°	286.6	298.5	337.9	425.2	589.9	854.9	1348.3	1681.5	1954.1	1949.9	1471.7
65°	164.7	173.7	201.1	268.4	407.0	672.0	1205.3	1661.9	2043.9	2041.4	1513.7
66°	134.6	140.2	161.2	209.8	335.8	590.1	1122.2	1620.3	2052.7	2052.8	1508.9
67.5°	107.6	110.1	119.5	150.2	247.8	467.8	973.8	1528.7	2041.7	2044.7	1477.7
70°	89.0	90.3	93.3	100.7	135.2	282.1	691.2	1290.6	1930.7	1933.0	1356.0
72.5°	79.9	80.7	81.8	82.8	95.4	157.6	422.2	1032.4	1692.8	1695.8	1170.6
75°	72.4	72.8	72.6	72.7	80.1	100.4	218.2	770.8	1368.7	1362.7	896.7
77.5°	63.6	64.0	63.1	63.3	70.8	77.2	108.6	539.6	923.7	881.0	505.2
80°	53.7	54.1	53.7	54.3	61.7	58.3	63.1	303.6	408.4	386.3	179.6
82.5°	40.6	42.1	43.1	45.5	50.8	41.5	42.2	118.2	124.4	118.4	55.1
85°	17.8	21.7	32.5	34.8	38.2	24.9	27.7	48.2	50.6	49.1	20.0
87.5°	4.7	5.1	16.1	20.2	21.2	11.2	14.4	21.9	23.1	21.9	6.7
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°	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3	232.3
2.5°	234.9	230.7	223.1	216.3	211.3	207.8	204.3	202.6	201.6	200.5	200.7
5°	242.4	233.9	220.8	211.6	206.4	203.1	201.4	200.7	200.3	199.2	199.2
7.5°	253.7	241.7	223.7	214.2	210.1	207.6	206.6	206.2	205.7	204.5	204.7
10°	268.0	251.1	229.6	220.4	216.7	213.9	212.5	211.9	211.0	209.6	209.8
12.5°	284.7	262.7	237.5	227.8	223.3	219.6	217.2	215.7	214.1	212.3	212.4
15°	303.1	275.4	246.0	234.5	228.4	223.2	219.3	216.8	214.2	211.9	211.9
17.5°	321.6	287.7	252.4	238.1	229.8	223.0	217.7	213.8	210.6	207.9	207.6
20°	341.7	298.7	256.1	237.8	227.1	218.9	211.9	207.1	203.6	200.8	200.4
22.5°	362.0	309.1	256.7	234.2	220.9	211.0	203.7	198.3	194.7	191.8	190.8
25°	380.7	317.1	254.2	227.4	212.4	201.7	194.5	189.1	186.1	182.8	181.7
27.5°	397.7	322.7	249.2	218.7	202.8	192.3	185.5	180.9	177.7	175.1	174.2
30°	413.0	325.8	241.0	208.3	192.9	183.4	177.7	174.5	171.7	168.4	167.8
32.5°	427.5	325.8	230.4	197.0	183.2	175.5	172.1	170.1	167.0	163.8	163.0
35°	442.0	323.8	218.0	185.2	174.2	169.9	169.7	167.4	162.6	158.3	157.2
37.5°	457.3	319.7	204.0	174.1	166.9	167.4	168.8	163.7	156.9	150.8	149.2
40°	474.6	314.1	189.5	164.5	160.7	166.3	166.5	158.3	145.2	139.6	138.1
42.5°	494.9	308.5	176.0	156.1	155.9	162.9	162.1	146.7	138.9	136.0	135.2
45°	521.6	305.3	163.2	148.0	152.1	157.4	154.6	140.3	137.1	135.4	134.7
47.5°	563.6	306.9	151.5	141.6	148.3	152.0	140.6	137.8	135.4	133.4	132.7
50°	616.3	306.0	142.0	137.2	144.0	146.3	134.3	134.4	133.2	130.9	129.9
52.5°	655.9	298.6	135.9	134.7	140.2	136.2	130.3	131.1	130.5	127.2	126.1
55°	694.2	292.2	132.7	133.8	137.4	123.6	125.7	127.6	127.0	123.8	123.2
57.5°	741.8	291.0	130.8	134.0	135.1	117.3	121.2	123.7	123.2	121.9	121.6
60°	800.1	291.3	129.1	134.5	132.5	112.6	116.9	120.1	120.4	120.1	120.0
62.5°	832.1	281.9	124.8	133.3	127.9	108.6	112.5	117.2	117.3	117.8	117.7
65°	804.9	253.7	116.8	129.0	120.2	105.2	108.7	113.8	112.5	114.9	114.9
66°	778.5	237.5	112.8	126.3	116.9	103.9	107.5	112.1	110.5	113.7	113.7
67.5°	724.5	210.1	105.6	120.4	112.3	102.1	106.1	109.3	107.0	111.8	111.4
70°	625.9	162.5	91.2	107.1	104.6	99.4	104.2	103.6	100.3	107.5	106.1
72.5°	527.7	123.5	73.2	89.6	92.9	96.0	101.6	96.3	92.2	97.2	94.2
75°	409.5	92.8	57.9	69.7	78.5	90.8	98.4	87.9	82.0	81.4	79.8
77.5°	221.4	63.7	45.9	53.2	62.4	84.2	96.2	78.9	70.0	67.9	66.6
80°	87.7	41.5	33.3	40.3	43.6	74.7	91.0	68.5	57.7	55.6	53.6
82.5°	36.2	24.5	21.5	27.0	28.4	63.9	81.7	56.1	44.6	61.7	65.5
85°	15.5	13.5	12.8	14.0	16.1	44.8	65.0	42.8	48.1	42.9	34.1
87.5°	4.7	5.7	5.4	5.4	5.9	10.7	34.6	23.8	35.3	13.4	10.0
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)