

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: P348530

Luminaire Tested: **ARCH-N-PA1-40-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348530
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-PA1-40-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4679 lumens
Efficiency: N/A
Efficacy: 114.1 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

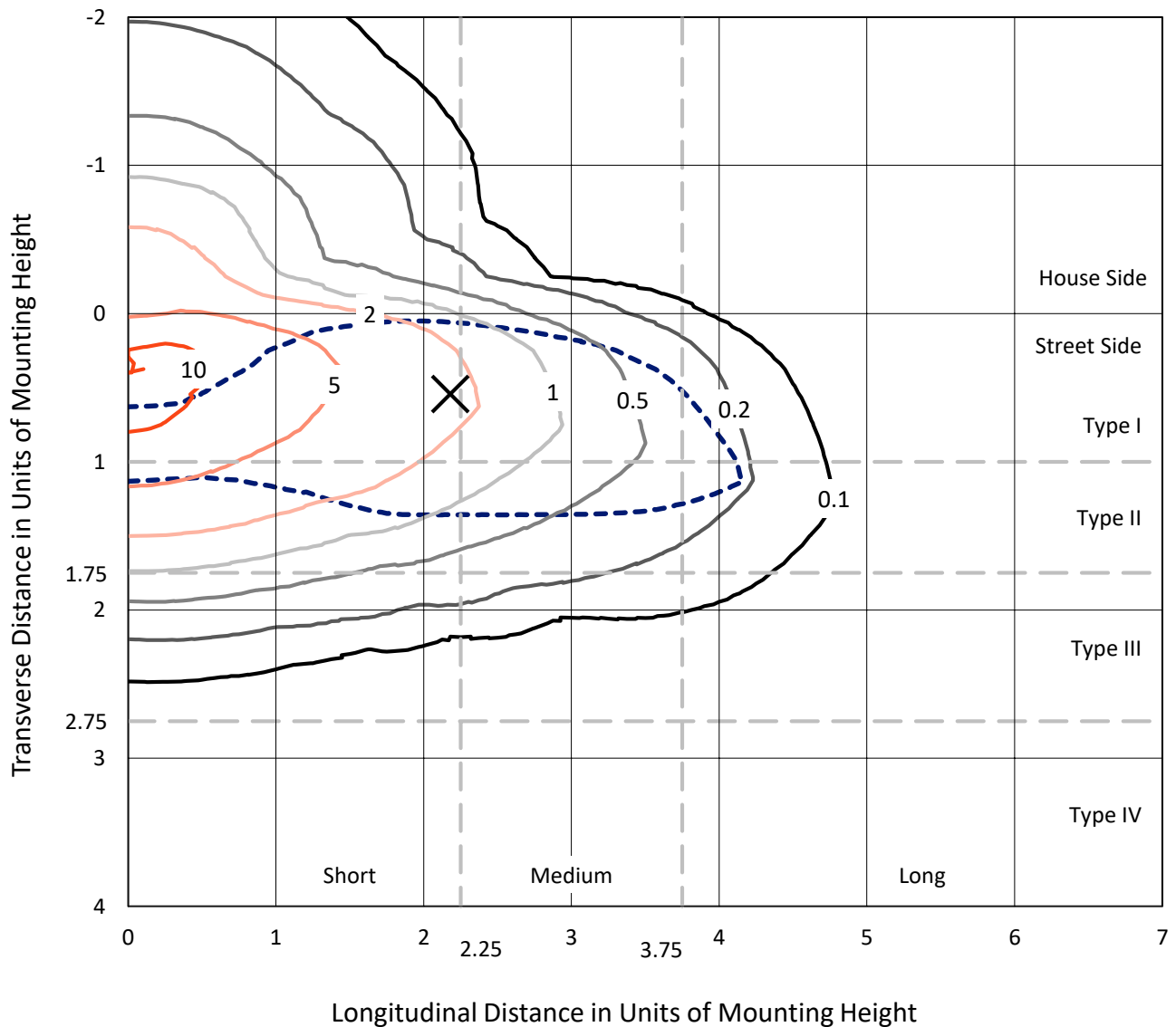
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

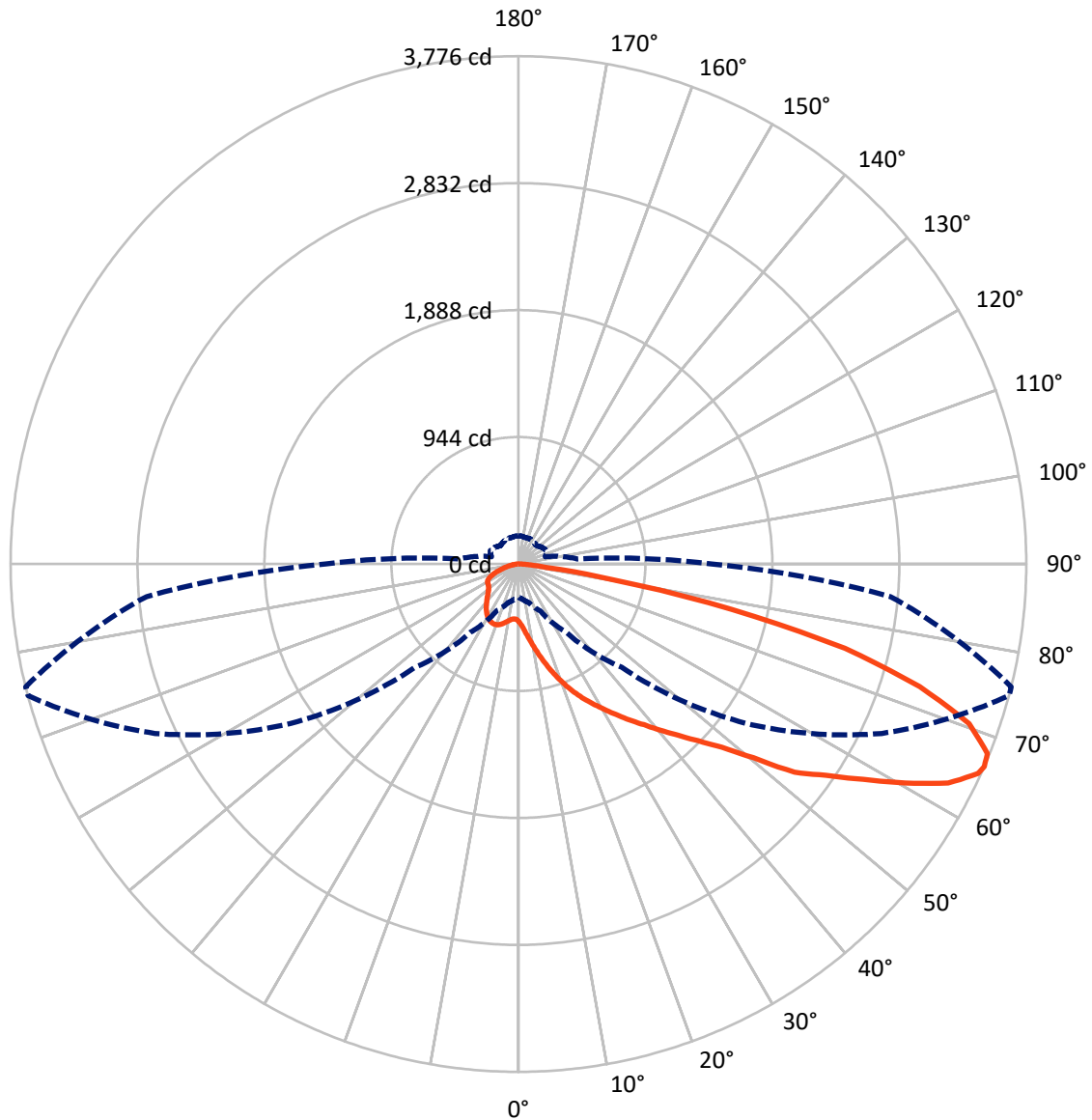
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 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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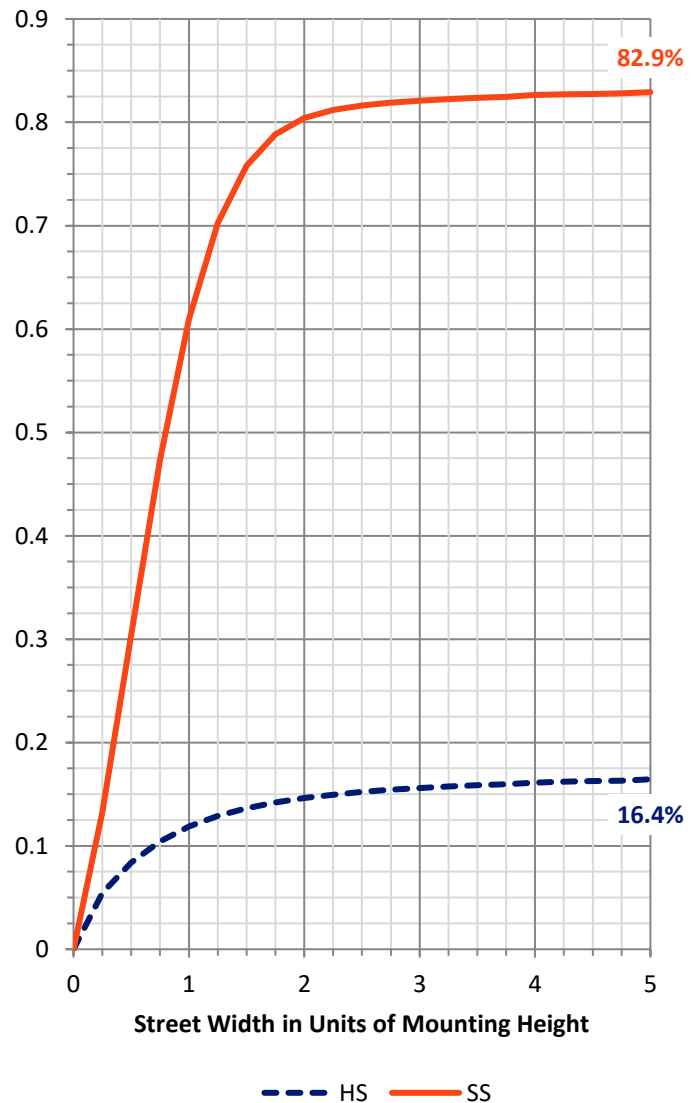
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.3	0.0	787.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3891.7	0.0	3891.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	4679.0	0.0	4679.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.1
10°-20°	204.0	4.4
20°-30°	396.5	8.5
30°-40°	647.2	13.8
40°-50°	884.2	18.9
50°-60°	1030.0	22.0
60°-70°	923.4	19.7
70°-80°	466.6	10.0
80°-90°	75.4	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°	4679.0	100.0
0°-180°	4679.0	100.0



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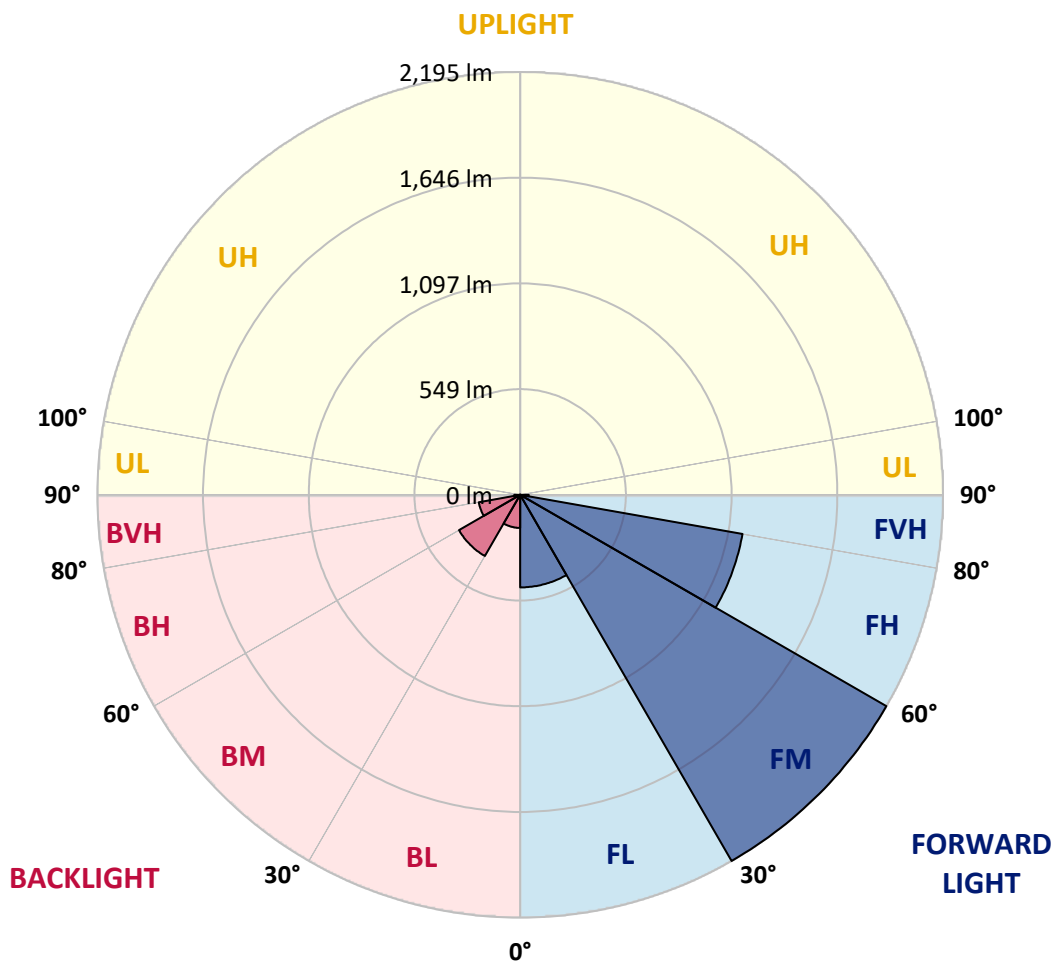
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.5	10.3			
FM (30°-60°)	2194.8	46.9			
FH (60°-80°)	1171.9	25.0			G1/1800
FVH (80°-90°)	44.5	1.0			G1/100
BL (0°-30°)	171.7	3.7	B1/500		
BM (30°-60°)	366.6	7.8	B1/1000		
BH (60°-80°)	218.1	4.7	B1/500		G1/500
BVH (80°-90°)	30.9	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°	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3
2.5°	567.2	558.7	557.9	545.3	542.5	518.5	500.8	482.4	461.5	457.3	440.8
5°	728.6	727.8	716.9	696.4	680.3	639.4	598.9	556.0	508.9	501.3	464.2
7.5°	873.8	872.5	864.1	842.0	818.9	768.5	710.7	644.9	568.7	557.4	495.8
10°	984.1	983.6	980.7	964.5	944.8	896.5	832.7	742.9	638.1	622.7	535.3
12.5°	1069.2	1070.2	1072.1	1066.3	1057.0	1015.8	950.4	846.8	712.1	696.9	579.3
15°	1126.9	1129.7	1139.6	1147.7	1152.6	1127.3	1064.0	953.1	795.0	776.8	628.1
17.5°	1155.9	1159.1	1176.1	1200.6	1223.1	1220.6	1170.2	1054.4	874.6	857.0	680.5
20°	1181.0	1183.4	1202.5	1231.9	1271.7	1289.4	1261.1	1152.0	961.8	940.9	736.1
22.5°	1253.8	1256.8	1262.5	1279.2	1314.5	1346.9	1333.2	1244.2	1041.7	1022.2	788.8
25°	1394.2	1397.9	1385.5	1371.3	1378.0	1400.6	1403.1	1328.4	1122.7	1100.7	845.5
27.5°	1563.4	1568.6	1547.5	1511.1	1479.3	1470.6	1467.6	1397.4	1200.1	1174.5	901.6
30°	1729.0	1738.1	1710.6	1663.4	1605.1	1564.2	1533.8	1464.9	1276.3	1251.9	954.5
32.5°	1890.9	1887.3	1847.4	1801.3	1733.0	1681.7	1608.3	1537.3	1362.1	1334.0	1007.1
35°	2001.8	2003.1	1966.0	1911.4	1846.3	1806.9	1708.1	1615.5	1449.6	1423.7	1066.8
37.5°	2096.1	2090.3	2048.3	1997.3	1941.3	1924.4	1824.8	1701.6	1544.5	1516.2	1130.4
40°	2127.6	2120.8	2093.3	2056.6	2011.6	2010.2	1953.7	1799.1	1651.7	1623.7	1202.0
42.5°	2108.5	2099.8	2088.5	2078.5	2064.7	2071.0	2074.7	1913.5	1769.6	1738.3	1284.9
45°	2038.2	2025.0	2032.9	2054.7	2084.7	2120.6	2184.0	2040.1	1901.6	1875.3	1382.3
47.5°	1930.0	1918.1	1942.9	1989.4	2071.0	2161.9	2287.4	2179.9	2059.1	2033.1	1521.0
50°	1777.8	1781.3	1816.7	1901.4	2024.8	2181.0	2414.8	2364.9	2288.2	2263.9	1710.1
52.5°	1528.1	1528.7	1628.5	1767.5	1942.9	2171.1	2485.5	2601.4	2601.0	2571.6	1890.3
55°	1296.2	1310.3	1389.3	1574.0	1810.1	2131.7	2534.9	2716.4	2806.3	2771.9	2058.2
57.5°	1069.7	1077.9	1152.8	1338.3	1620.6	2026.7	2585.6	2854.5	3043.0	3021.3	2266.9
60°	812.0	824.7	902.1	1073.5	1378.2	1840.4	2590.3	2998.6	3325.9	3304.0	2499.9
62.5°	527.1	549.0	621.4	782.0	1084.9	1572.4	2479.8	3092.7	3594.1	3586.3	2706.8
65°	302.9	319.4	369.8	493.7	748.5	1236.0	2216.9	3056.5	3759.1	3754.7	2784.1
66°	247.5	257.8	296.4	385.8	617.6	1085.4	2064.1	2980.1	3775.5	3775.6	2775.2
67.5°	197.9	202.5	219.8	276.2	455.7	860.3	1791.0	2811.6	3755.1	3760.7	2717.9
70°	163.8	166.2	171.6	185.2	248.8	518.8	1271.3	2373.6	3551.0	3555.3	2494.1
72.5°	146.9	148.4	150.4	152.3	175.5	289.9	776.4	1898.9	3113.4	3119.0	2153.0
75°	133.1	133.9	133.6	133.7	147.3	184.7	401.2	1417.7	2517.4	2506.3	1649.3
77.5°	116.9	117.7	116.1	116.4	130.3	142.0	199.7	992.5	1698.9	1620.4	929.3
80°	98.8	99.4	98.8	99.9	113.4	107.2	116.1	558.3	751.2	710.5	330.4
82.5°	74.7	77.4	79.3	83.7	93.4	76.2	77.7	217.5	228.7	217.8	101.3
85°	32.7	39.9	59.7	64.0	70.2	45.7	51.0	88.6	93.1	90.2	36.9
87.5°	8.6	9.4	29.5	37.2	38.9	20.7	26.5	40.3	42.6	40.3	12.2
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°	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3	427.3
2.5°	432.1	424.3	410.3	397.9	388.5	382.2	375.8	372.7	370.7	368.8	369.2
5°	445.9	430.2	406.2	389.2	379.6	373.6	370.4	369.2	368.4	366.5	366.5
7.5°	466.7	444.5	411.4	393.9	386.5	381.9	380.0	379.3	378.4	376.1	376.5
10°	492.9	461.8	422.4	405.4	398.5	393.5	390.8	389.8	388.1	385.5	385.8
12.5°	523.7	483.2	436.8	419.0	410.8	403.9	399.5	396.8	393.8	390.4	390.6
15°	557.4	506.6	452.4	431.3	420.0	410.5	403.3	398.7	393.9	389.8	389.7
17.5°	591.5	529.1	464.3	437.9	422.7	410.1	400.5	393.3	387.4	382.3	381.9
20°	628.4	549.5	471.0	437.3	417.6	402.7	389.8	380.9	374.4	369.3	368.5
22.5°	665.9	568.5	472.1	430.8	406.3	388.1	374.6	364.7	358.0	352.8	350.9
25°	700.2	583.3	467.5	418.2	390.6	370.9	357.7	347.7	342.3	336.1	334.2
27.5°	731.5	593.6	458.3	402.2	373.0	353.6	341.2	332.6	326.7	322.0	320.4
30°	759.6	599.2	443.2	383.1	354.9	337.2	326.7	320.9	315.8	309.8	308.6
32.5°	786.3	599.2	423.8	362.3	336.9	322.8	316.6	312.9	307.2	301.3	299.7
35°	813.0	595.5	400.9	340.6	320.4	312.5	312.1	307.8	299.1	291.2	289.1
37.5°	841.1	588.1	375.2	320.2	306.9	307.8	310.5	301.0	288.6	277.3	274.3
40°	872.9	577.7	348.5	302.6	295.6	305.8	306.3	291.2	267.0	256.7	254.0
42.5°	910.2	567.4	323.7	287.0	286.7	299.6	298.2	269.9	255.4	250.2	248.8
45°	959.3	561.5	300.2	272.3	279.7	289.6	284.3	258.1	252.1	249.1	247.8
47.5°	1036.6	564.5	278.6	260.5	272.7	279.6	258.6	253.4	249.1	245.4	244.1
50°	1133.5	562.8	261.1	252.4	264.8	269.1	247.0	247.2	244.9	240.8	238.9
52.5°	1206.4	549.1	249.9	247.8	257.8	250.5	239.7	241.1	240.0	234.0	231.9
55°	1276.8	537.4	244.1	246.1	252.7	227.3	231.1	234.6	233.5	227.6	226.7
57.5°	1364.3	535.2	240.7	246.5	248.4	215.7	222.9	227.5	226.7	224.1	223.7
60°	1471.6	535.8	237.5	247.3	243.7	207.1	215.1	221.0	221.4	221.0	220.6
62.5°	1530.5	518.5	229.5	245.1	235.3	199.7	207.0	215.6	215.7	216.7	216.5
65°	1480.5	466.7	214.8	237.3	221.1	193.5	200.0	209.4	207.0	211.3	211.3
66°	1431.8	436.8	207.5	232.2	215.1	191.1	197.8	206.2	203.2	209.0	209.0
67.5°	1332.6	386.5	194.3	221.4	206.5	187.8	195.2	200.9	196.8	205.5	204.9
70°	1151.2	298.9	167.7	197.0	192.4	182.8	191.7	190.5	184.4	197.8	195.2
72.5°	970.6	227.2	134.7	164.9	170.9	176.6	186.8	177.1	169.5	178.9	173.3
75°	753.1	170.8	106.4	128.2	144.4	166.9	180.9	161.7	150.7	149.8	146.8
77.5°	407.1	117.2	84.3	97.8	114.7	154.9	177.0	145.2	128.7	124.9	122.5
80°	161.2	76.2	61.3	74.2	80.2	137.4	167.4	126.0	106.1	102.3	98.6
82.5°	66.6	45.1	39.6	49.7	52.3	117.5	150.3	103.3	82.0	113.4	120.4
85°	28.6	24.8	23.5	25.7	29.5	82.4	119.6	78.8	88.5	78.9	62.7
87.5°	8.6	10.5	10.0	9.8	10.8	19.7	63.7	43.8	65.0	24.6	18.4
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)