

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: P348789

Luminaire Tested: **ARCH-N-PA1-40-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3228 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

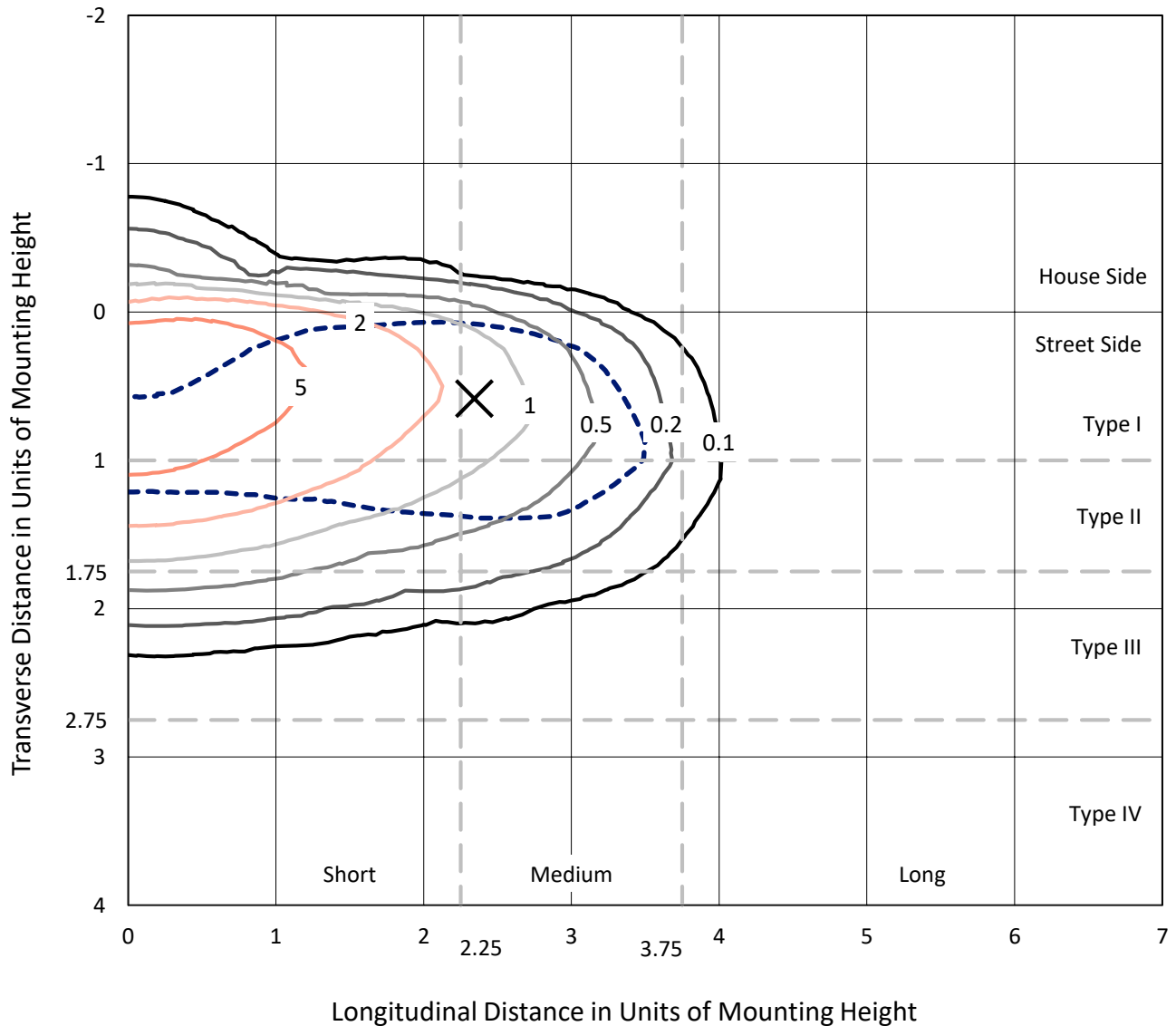
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348789
 CATALOG NUMBER: ARCH-N-PA1-40-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

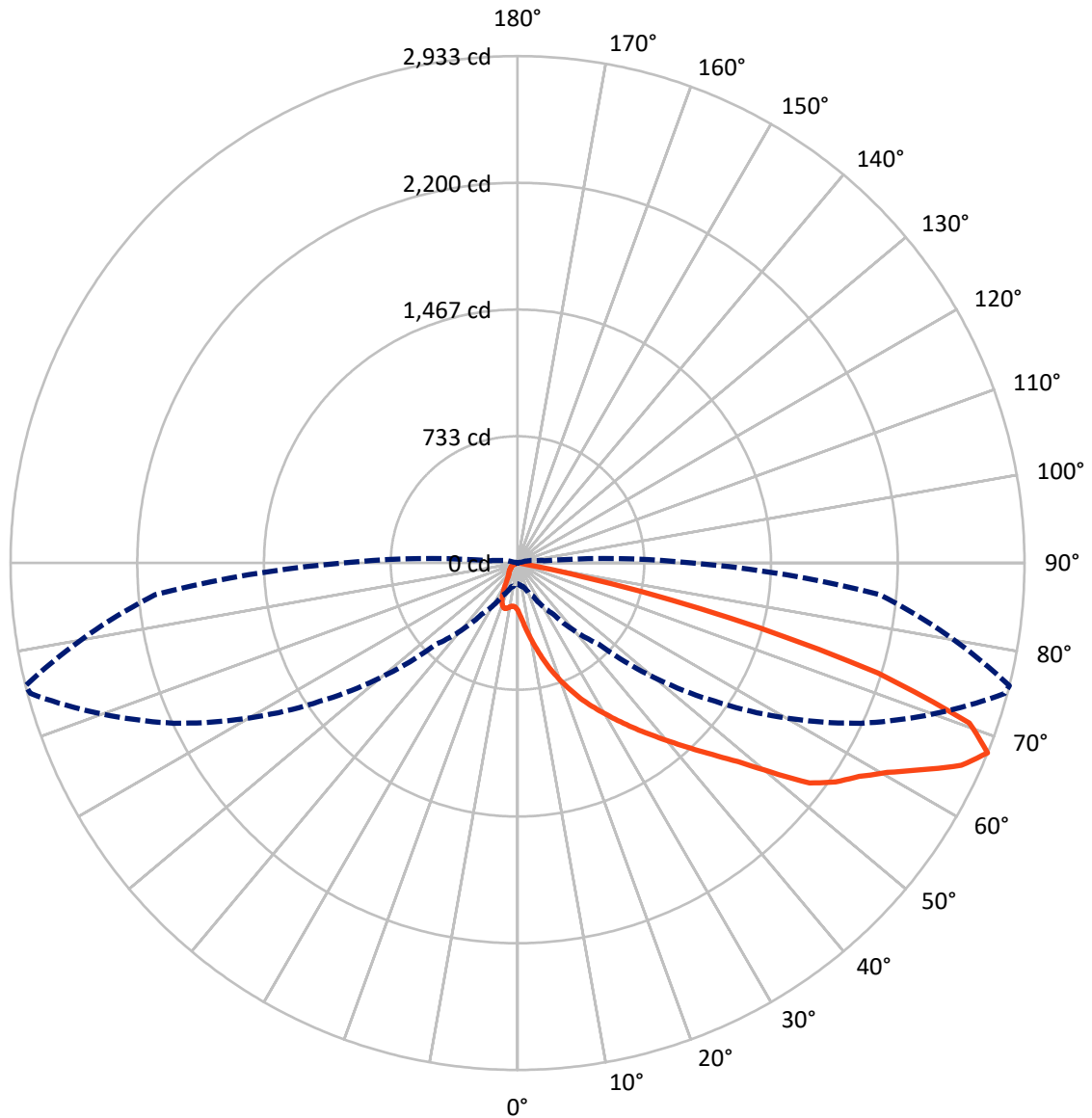
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P348789
CATALOG NUMBER: ARCH-N-PA1-40-827-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: ARCH-N-PA1-40-827-U-T2R-HSS

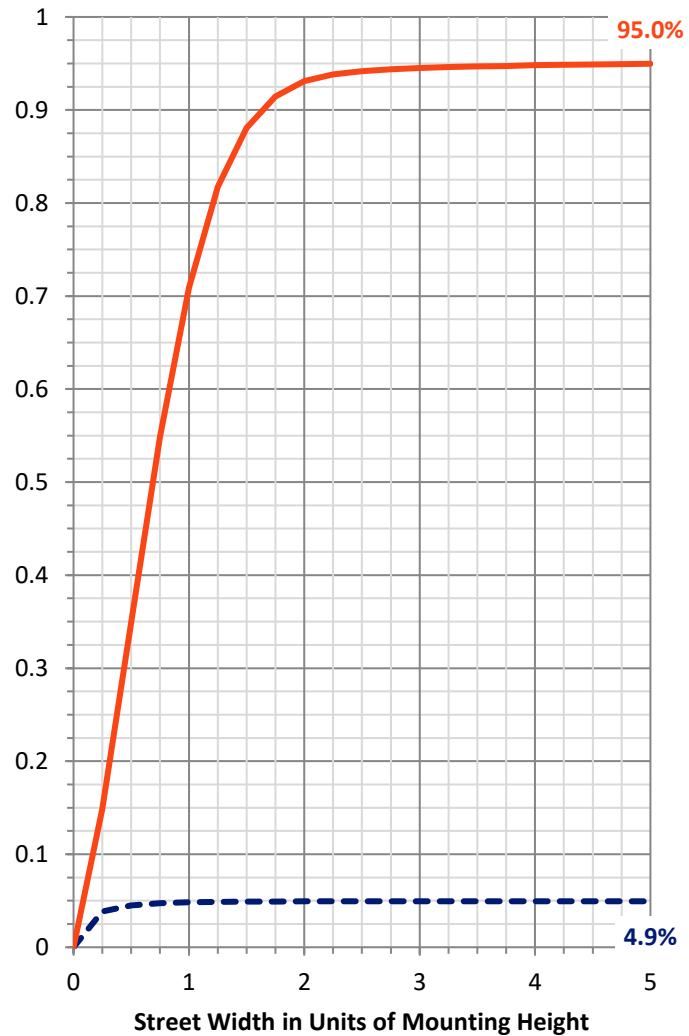
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	160.3	0.0	160.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3067.7	0.0	3067.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	3228.0	0.0	3228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.1
10°-20°	135.0	4.2
20°-30°	274.6	8.5
30°-40°	476.7	14.8
40°-50°	673.5	20.9
50°-60°	763.8	23.7
60°-70°	633.5	19.6
70°-80°	229.5	7.1
80°-90°	7.4	0.2
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°	3228.0	100.0
0°-180°	3228.0	100.0



--- HS — SS

REPORT NUMBER: P348789

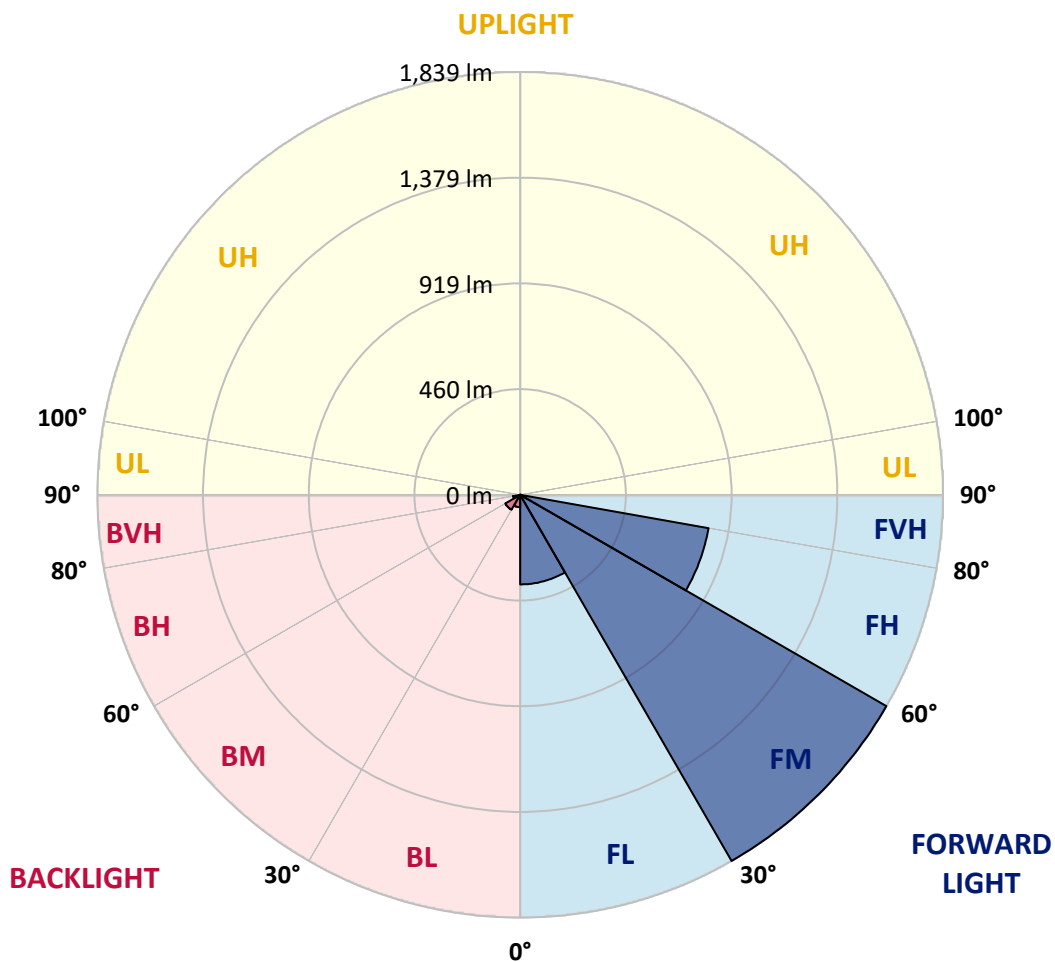
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.6	12.1			
FM	(30°-60°)	1838.9	57.0			
FH	(60°-80°)	832.0	25.8			G1/1800
FVH	(80°-90°)	7.2	0.2			G0/10
BL	(0°-30°)	54.1	1.7	B0/110		
BM	(30°-60°)	75.0	2.3	B0/220		
BH	(60°-80°)	31.0	1.0	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type II Medium





REPORT NUMBER: P348789

CATALOG NUMBER: ARCH-N-PA1-40-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8
2.5°	408.8	399.6	401.7	395.7	385.0	362.9	344.1	326.3	305.5	304.8	287.7
5°	551.2	543.4	542.4	530.4	510.9	473.4	436.9	395.3	348.9	345.5	309.2
7.5°	680.5	674.2	672.0	657.7	621.3	584.9	537.3	476.2	403.7	397.4	338.2
10°	779.8	776.8	777.4	767.2	736.1	702.1	639.7	561.8	465.8	456.1	373.0
12.5°	855.0	855.7	860.8	854.6	837.2	812.0	745.4	653.0	534.5	521.3	412.7
15°	910.3	913.8	923.2	931.0	929.7	907.9	846.8	745.7	607.5	592.9	457.0
17.5°	946.1	950.1	963.6	980.9	996.7	991.6	944.7	835.1	681.3	664.5	504.4
20°	977.5	982.2	996.7	1019.5	1049.1	1055.4	1024.6	921.8	755.0	734.5	553.3
22.5°	1045.5	1045.4	1054.3	1067.6	1095.7	1112.1	1092.6	1002.2	827.8	806.5	603.2
25°	1168.6	1163.9	1160.8	1150.3	1156.6	1166.7	1155.8	1077.5	901.1	879.5	653.9
27.5°	1314.8	1317.7	1292.5	1264.3	1242.6	1232.1	1214.3	1147.2	971.6	947.8	703.4
30°	1469.1	1470.0	1440.3	1404.4	1356.4	1316.7	1285.8	1213.8	1044.0	1018.1	751.5
32.5°	1608.3	1602.8	1573.4	1524.4	1463.9	1419.2	1355.1	1288.2	1120.6	1095.6	804.9
35°	1718.6	1712.1	1676.3	1631.8	1569.0	1524.0	1446.9	1362.5	1201.3	1176.8	858.5
37.5°	1799.3	1791.6	1754.8	1709.0	1654.8	1628.7	1553.4	1443.3	1289.2	1262.9	915.0
40°	1827.3	1820.6	1797.6	1764.0	1720.5	1714.5	1666.4	1536.2	1385.0	1357.0	978.9
42.5°	1810.6	1804.1	1795.9	1784.5	1766.4	1772.1	1773.1	1642.1	1491.3	1463.8	1049.5
45°	1744.4	1738.6	1747.1	1763.6	1786.1	1814.1	1870.4	1756.0	1610.2	1580.7	1131.1
47.5°	1646.9	1642.7	1666.2	1707.5	1773.2	1850.5	1959.4	1875.6	1743.5	1716.2	1232.9
50°	1508.3	1507.6	1554.6	1630.0	1731.1	1868.0	2051.3	2011.7	1928.8	1900.1	1374.5
52.5°	1292.5	1293.9	1386.3	1506.9	1657.1	1856.1	2110.4	2186.5	2144.4	2114.5	1497.1
55°	1087.0	1095.5	1160.9	1334.9	1543.7	1812.0	2130.8	2268.1	2263.3	2235.0	1565.3
57.5°	885.7	901.1	964.2	1126.7	1378.1	1710.3	2119.6	2303.5	2351.9	2330.2	1655.3
60°	667.6	674.7	747.4	899.3	1165.5	1524.7	2038.6	2322.7	2472.9	2457.9	1785.8
62.5°	424.7	442.4	506.9	653.5	907.5	1267.0	1901.9	2322.4	2624.4	2632.6	1954.3
65°	223.8	244.4	278.6	404.9	623.6	979.2	1696.4	2300.7	2810.3	2821.7	2086.0
67.5°	120.6	126.6	144.7	210.2	361.7	663.4	1394.5	2193.2	2917.9	2933.0	2104.3
70°	88.3	91.5	98.3	116.3	182.0	385.3	1017.5	1949.5	2779.2	2773.5	1869.7
72.5°	67.7	72.8	77.9	85.1	104.7	205.7	633.5	1526.6	2217.5	2180.2	1397.6
75°	53.5	54.3	61.5	68.0	78.5	117.1	281.3	889.1	1353.4	1265.0	724.7
77.5°	42.7	43.3	47.5	53.2	63.1	76.9	87.1	349.8	432.1	385.6	157.3
80°	25.3	26.7	35.4	41.0	52.3	48.5	31.8	76.0	67.5	61.1	26.4
82.5°	14.1	15.3	19.9	32.4	36.5	23.2	15.8	20.5	15.8	15.4	7.5
85°	0.0	0.7	12.9	20.1	14.9	5.1	6.6	6.8	4.7	4.4	3.0
87.5°	0.0	0.0	4.0	3.8	0.6	0.8	1.6	2.3	1.8	1.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348789

CATALOG NUMBER: ARCH-N-PA1-40-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8	273.8
2.5°	279.2	271.6	257.1	243.0	231.1	221.4	212.6	209.0	206.2	205.8	203.5
5°	291.6	276.2	248.7	226.0	210.9	200.1	190.9	185.3	180.9	179.2	177.6
7.5°	310.5	287.1	247.5	221.5	203.4	185.3	168.3	149.9	138.5	134.1	131.5
10°	333.4	301.6	251.8	220.2	188.5	150.4	122.2	98.9	89.4	86.3	85.4
12.5°	360.1	319.5	259.1	212.3	156.9	106.8	84.3	76.4	74.3	73.3	73.3
15°	390.8	339.2	264.4	189.4	116.0	80.8	73.0	69.3	67.0	65.8	65.9
17.5°	422.2	358.4	261.8	156.1	85.6	71.9	66.1	62.1	59.0	57.7	57.4
20°	453.9	376.2	247.7	116.3	72.4	65.2	58.7	54.3	51.2	49.9	49.6
22.5°	486.7	391.4	222.8	85.3	65.1	57.8	51.5	47.1	44.1	43.0	42.4
25°	518.7	403.7	188.0	69.0	58.1	50.9	44.8	40.7	38.0	36.9	36.8
27.5°	548.5	411.4	147.7	61.0	52.0	44.7	39.2	35.5	33.2	32.4	32.2
30°	575.4	412.2	109.2	55.0	46.7	39.3	34.2	31.0	29.0	28.1	27.9
32.5°	602.5	406.2	79.5	49.6	41.7	34.7	29.7	27.2	25.7	25.0	25.0
35°	628.1	392.5	62.0	45.0	36.9	30.1	26.2	24.3	23.5	22.8	22.8
37.5°	653.2	372.8	52.6	40.9	32.4	26.3	23.1	21.9	21.2	20.5	20.5
40°	678.6	348.1	47.8	37.1	28.7	23.3	20.5	19.5	18.8	18.2	18.1
42.5°	709.9	319.5	44.7	33.5	25.5	20.7	18.1	17.0	16.4	15.8	15.6
45°	746.1	294.9	42.1	30.0	22.8	18.4	15.7	14.6	13.7	13.0	12.9
47.5°	798.3	277.1	38.8	26.2	20.2	16.0	13.6	12.3	11.0	10.3	10.2
50°	864.9	262.4	34.4	22.8	17.7	13.6	11.3	9.8	8.6	7.9	7.9
52.5°	898.0	243.1	30.4	19.8	14.9	11.5	9.2	7.4	6.8	6.1	6.1
55°	911.3	228.4	26.4	16.8	12.3	9.5	7.2	5.7	5.2	4.8	4.7
57.5°	948.6	224.2	23.1	14.3	10.2	7.5	5.5	4.2	4.0	3.4	3.4
60°	1008.8	226.3	19.9	12.2	8.2	5.8	4.1	3.3	3.0	2.4	2.4
62.5°	1073.7	223.6	16.8	10.5	6.4	4.2	2.8	2.4	2.4	1.4	1.3
65°	1086.1	199.1	14.4	8.6	5.0	3.1	1.8	1.6	2.1	0.3	0.0
67.5°	1008.0	154.5	12.4	6.6	3.7	2.4	1.4	0.7	1.8	0.0	0.0
70°	806.1	98.2	10.0	4.8	2.8	2.0	1.1	0.3	1.4	0.0	0.0
72.5°	570.0	57.0	7.9	3.4	2.4	1.6	0.8	0.0	0.8	0.0	0.0
75°	288.3	30.4	5.0	2.5	1.8	1.1	0.6	0.0	0.1	0.0	0.0
77.5°	62.4	14.1	3.1	1.8	1.3	0.7	0.3	0.0	0.0	0.0	0.0
80°	13.6	6.2	2.0	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	3.3	1.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.7	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.6	0.1	0.1	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)