

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: P397689

Luminaire Tested: **ARCH-S-PA1-30-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338 lumens
Efficiency: N/A
Efficacy: 107.7 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

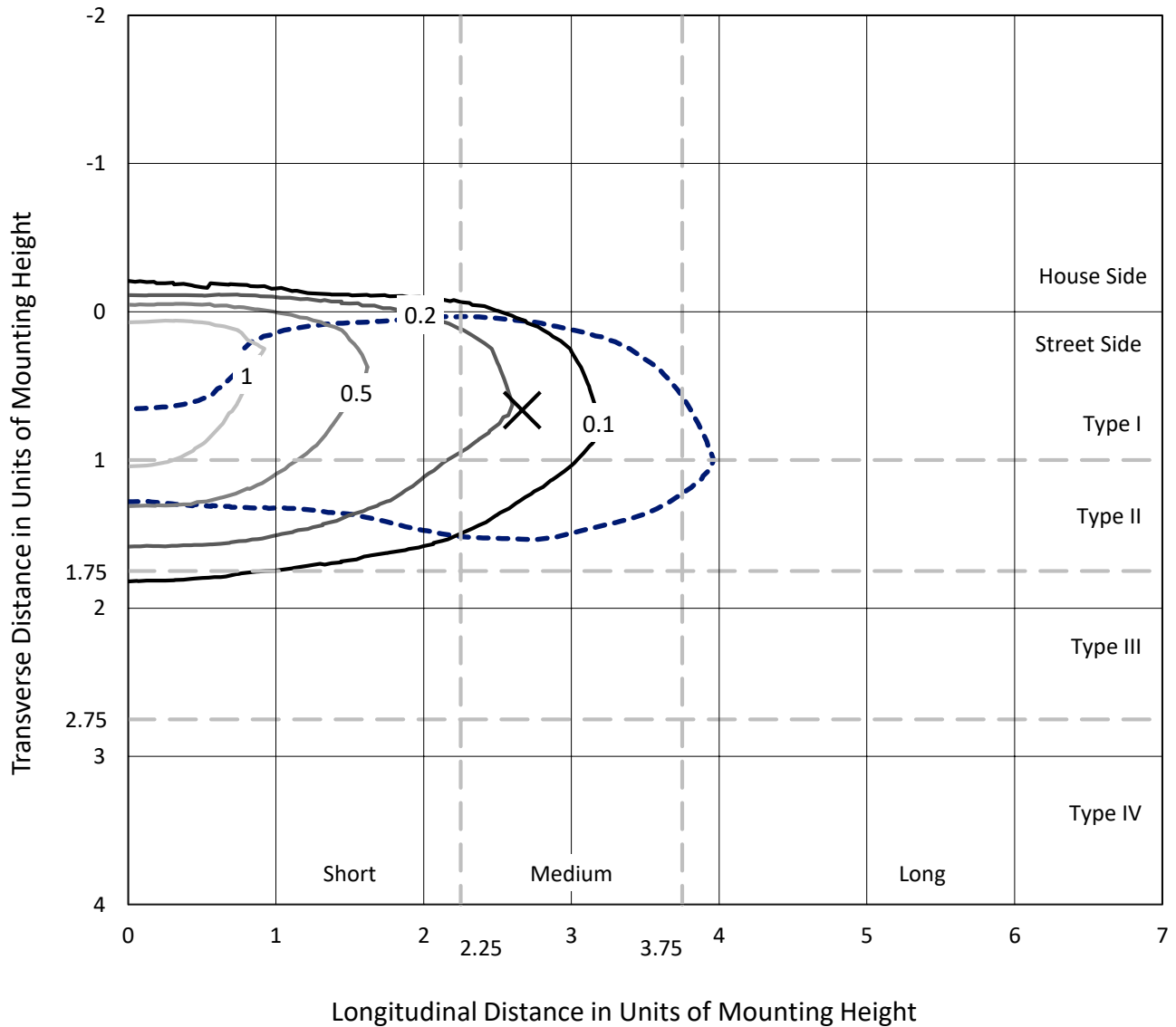
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

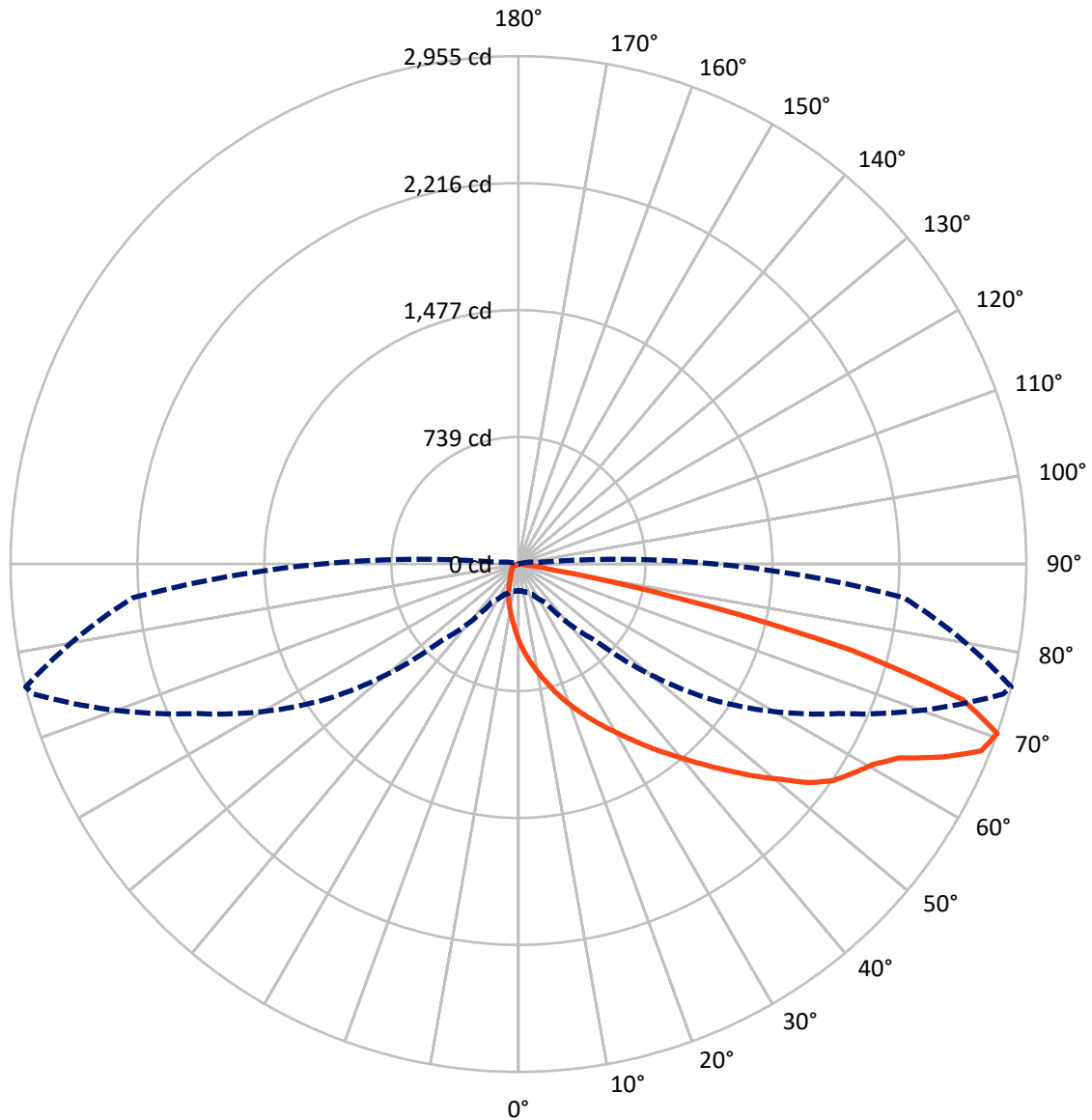


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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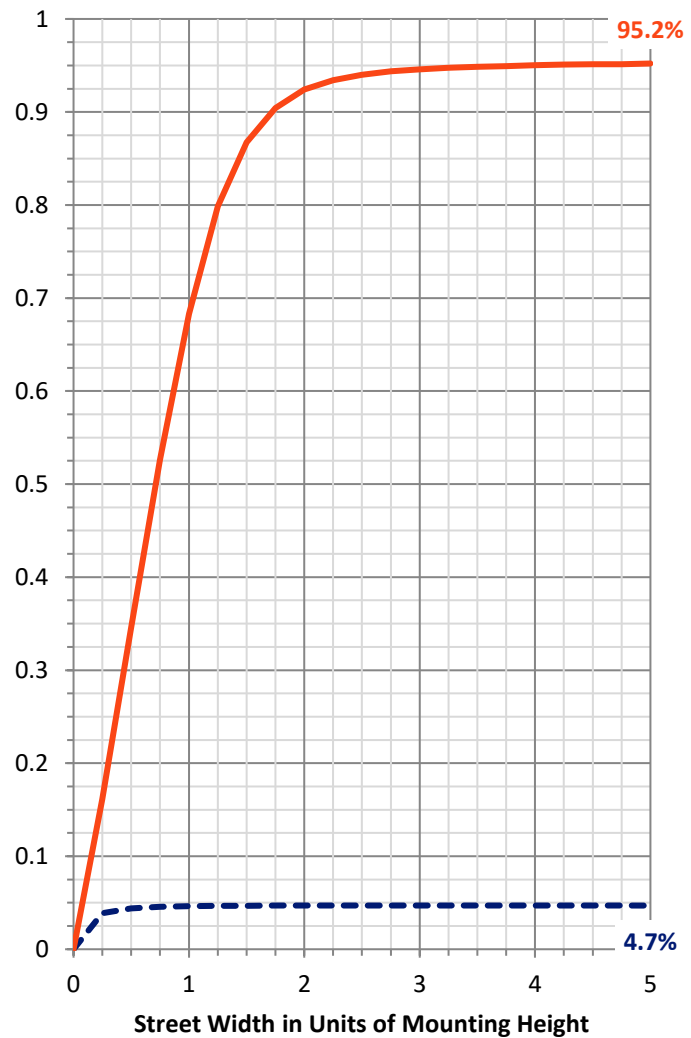
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.4	0.0	157.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	3180.6	0.0	3180.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	3338.0	0.0	3338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	1.3
10°-20°	135.9	4.1
20°-30°	253.0	7.6
30°-40°	447.5	13.4
40°-50°	684.4	20.5
50°-60°	775.9	23.2
60°-70°	665.1	19.9
70°-80°	322.2	9.7
80°-90°	12.0	0.4
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°	3338.0	100.0
0°-180°	3338.0	100.0

Coefficient of Utilization



--- HS — SS

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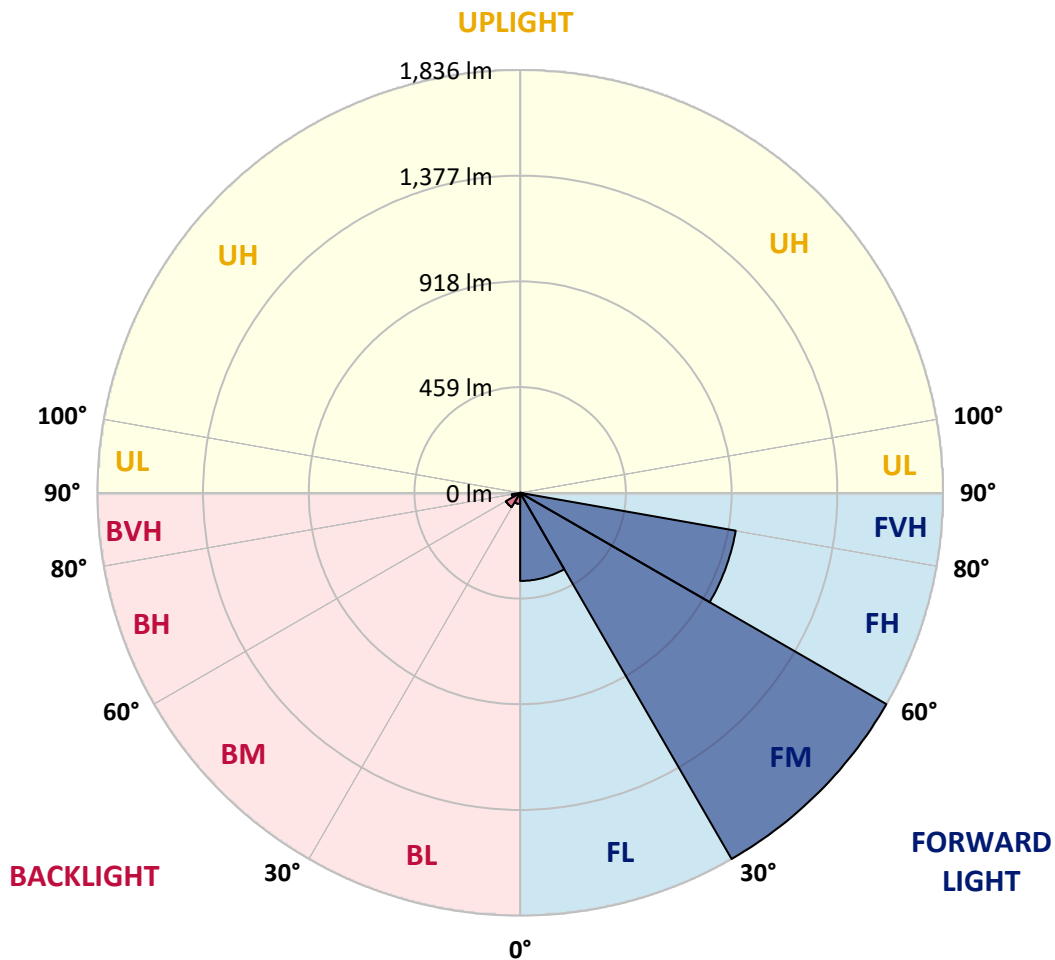
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.7	11.5			
FM	(30°-60°)	1835.9	55.0			
FH	(60°-80°)	950.2	28.5			G1/1800
FVH	(80°-90°)	11.8	0.4			G1/100
BL	(0°-30°)	48.3	1.4	B0/110		
BM	(30°-60°)	71.9	2.2	B0/220		
BH	(60°-80°)	37.1	1.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8
2.5°	610.8	607.4	604.1	591.3	579.6	569.1	549.1	522.9	499.6	494.6	467.4
5°	717.5	713.6	708.6	695.8	680.8	663.0	633.5	593.5	552.4	543.5	492.9
7.5°	789.7	786.4	779.1	773.0	758.0	740.8	708.0	661.3	604.6	593.5	522.4
10°	839.2	836.9	835.8	830.8	819.7	805.8	773.0	724.1	657.4	644.7	553.5
12.5°	856.9	856.9	862.5	870.8	872.5	868.1	838.1	789.1	713.0	699.7	590.2
15°	833.1	835.8	848.1	874.7	902.5	920.9	902.0	856.4	774.1	759.7	633.5
17.5°	826.4	829.2	837.5	860.8	898.1	947.0	956.4	921.4	831.9	819.7	678.0
20°	845.3	848.1	855.3	875.3	903.6	953.1	992.5	984.2	893.1	880.3	723.0
22.5°	890.3	892.0	892.0	907.5	932.5	969.2	1015.3	1043.7	955.9	942.0	767.5
25°	987.0	983.7	970.3	962.5	978.7	1008.7	1044.2	1095.9	1025.9	1007.0	815.3
27.5°	1113.7	1124.8	1092.6	1055.3	1043.1	1060.3	1084.8	1142.0	1093.7	1073.7	858.6
30°	1285.4	1281.0	1238.7	1185.4	1132.6	1126.5	1134.8	1181.5	1161.5	1142.6	907.0
32.5°	1426.6	1434.9	1390.5	1325.4	1246.5	1209.3	1200.4	1228.7	1233.7	1221.5	964.2
35°	1571.6	1580.5	1537.2	1464.9	1371.0	1308.8	1283.2	1287.1	1323.2	1307.6	1024.2
37.5°	1701.7	1709.4	1666.7	1592.7	1498.8	1422.7	1386.0	1356.0	1409.9	1396.0	1087.6
40°	1800.6	1801.7	1772.8	1706.7	1617.8	1538.8	1497.2	1438.2	1501.6	1492.2	1153.7
42.5°	1870.6	1872.8	1851.7	1795.0	1712.8	1639.4	1605.5	1535.5	1607.2	1598.9	1230.4
45°	1903.4	1907.3	1905.1	1852.8	1784.5	1721.1	1710.0	1638.9	1722.8	1715.0	1318.8
47.5°	1872.3	1872.3	1900.6	1893.4	1830.6	1788.4	1801.1	1746.7	1848.4	1841.2	1408.8
50°	1742.8	1744.5	1802.3	1885.1	1848.4	1838.9	1878.9	1852.3	1962.3	1966.8	1516.6
52.5°	1402.7	1399.9	1595.0	1753.9	1836.2	1861.7	1950.6	1960.1	2099.0	2112.4	1623.9
55°	1048.1	1046.5	1233.2	1521.6	1750.6	1850.0	1990.7	2056.2	2215.7	2224.1	1703.9
57.5°	829.7	825.3	928.1	1226.5	1557.2	1797.8	1992.3	2074.6	2280.7	2295.2	1781.7
60°	638.0	634.1	710.8	912.5	1283.2	1658.9	1944.5	2075.7	2343.5	2369.1	1886.2
62.5°	456.3	460.7	519.6	654.7	987.0	1462.7	1882.3	2091.2	2455.2	2484.1	2034.6
65°	307.9	305.7	354.6	445.7	701.9	1198.7	1786.7	2124.0	2656.4	2707.0	2212.4
67.5°	214.0	215.6	237.9	290.1	445.7	920.3	1627.8	2142.4	2864.3	2903.7	2336.9
70°	154.5	156.7	168.9	195.1	272.3	624.1	1376.0	2058.5	2920.4	2954.9	2250.2
72.5°	101.7	106.1	124.5	138.4	173.9	390.7	1013.7	1773.4	2678.7	2704.2	1887.8
75°	55.0	56.1	80.0	103.4	123.9	243.4	604.6	1195.9	2004.0	1995.7	1244.9
77.5°	42.8	44.5	49.5	73.9	83.4	133.9	239.0	540.2	949.2	923.6	424.6
80°	26.1	27.2	34.5	43.9	58.4	77.8	70.0	146.7	192.8	180.6	62.2
82.5°	15.6	16.7	20.6	36.7	46.1	36.7	24.5	35.6	36.1	35.6	15.6
85°	2.8	2.8	14.4	25.6	24.5	10.6	14.4	11.7	10.6	11.1	3.3
87.5°	0.0	0.0	5.6	7.8	11.1	3.9	5.6	2.8	2.8	2.8	1.7
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°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8
2.5°	450.7	431.8	392.9	359.0	325.1	300.1	281.2	261.8	255.1	246.7	242.3
5°	458.5	421.2	344.0	282.3	230.1	190.1	164.5	148.9	138.9	131.7	130.0
7.5°	470.2	412.9	304.5	221.2	163.9	123.9	102.8	92.3	86.7	83.4	82.2
10°	484.0	405.7	265.6	172.3	115.6	87.3	75.6	71.1	68.9	67.8	67.2
12.5°	503.5	402.9	232.9	132.8	87.3	71.7	65.6	62.8	61.1	59.5	58.9
15°	529.1	404.0	202.8	102.8	72.2	63.9	58.9	56.1	53.9	52.2	52.2
17.5°	555.7	405.7	173.4	83.4	65.6	58.4	52.8	48.9	47.2	45.6	45.0
20°	580.7	405.1	145.0	71.1	59.5	52.2	46.7	42.8	40.0	38.3	38.3
22.5°	604.6	401.8	118.4	63.9	54.5	46.1	40.0	36.1	33.9	32.2	32.2
25°	630.2	395.1	96.7	58.4	48.3	40.6	34.5	30.6	28.9	27.2	27.2
27.5°	650.2	384.0	78.9	53.4	42.8	35.0	29.5	26.1	24.5	23.3	23.3
30°	671.9	367.9	65.6	47.8	37.2	30.0	25.0	22.2	20.6	20.0	20.0
32.5°	695.8	350.1	56.1	42.2	31.7	25.6	21.1	19.5	17.8	17.2	17.2
35°	723.6	334.6	50.6	36.7	27.8	21.7	18.3	16.7	15.6	15.6	15.6
37.5°	755.2	318.4	45.6	32.2	23.9	18.3	15.6	15.0	14.4	13.9	13.9
40°	789.7	301.2	41.1	28.3	20.6	15.6	13.3	13.3	12.8	12.8	12.8
42.5°	828.6	286.2	37.2	25.0	17.8	13.3	11.7	11.7	11.1	11.1	11.1
45°	870.8	272.3	33.9	22.2	15.6	11.7	10.6	10.0	9.4	9.4	9.4
47.5°	920.9	264.5	31.1	19.5	13.3	10.0	8.9	8.3	7.8	7.2	7.2
50°	984.8	267.9	28.3	16.1	11.7	8.3	7.2	6.7	6.1	5.6	5.6
52.5°	1035.3	266.2	24.5	13.9	9.4	6.7	5.6	5.0	4.4	3.9	3.9
55°	1072.0	259.5	21.1	11.7	7.2	5.6	4.4	3.3	2.8	2.8	2.8
57.5°	1108.1	252.9	17.8	9.4	5.6	3.9	2.8	2.2	2.2	2.2	2.2
60°	1164.3	243.4	15.6	7.8	4.4	2.8	1.7	1.7	1.1	1.1	1.1
62.5°	1232.6	231.7	12.8	6.7	3.3	2.2	1.1	1.1	0.0	0.0	0.0
65°	1307.6	211.2	10.6	5.0	2.8	1.7	1.1	0.0	0.0	0.0	0.0
67.5°	1290.4	169.5	8.9	3.3	2.2	1.1	0.6	0.0	0.0	0.0	0.0
70°	1141.5	114.5	7.2	2.8	1.7	1.1	0.6	0.0	0.0	0.0	0.0
72.5°	894.2	67.8	5.0	2.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0
75°	572.4	33.9	3.3	1.7	1.1	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	191.7	16.7	2.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.2	5.6	1.1	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.1	2.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.2	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.6	0.0	0.0	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)