

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: P798856

Luminaire Tested: **ARCH1-40-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798856
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: ARCH1-40-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

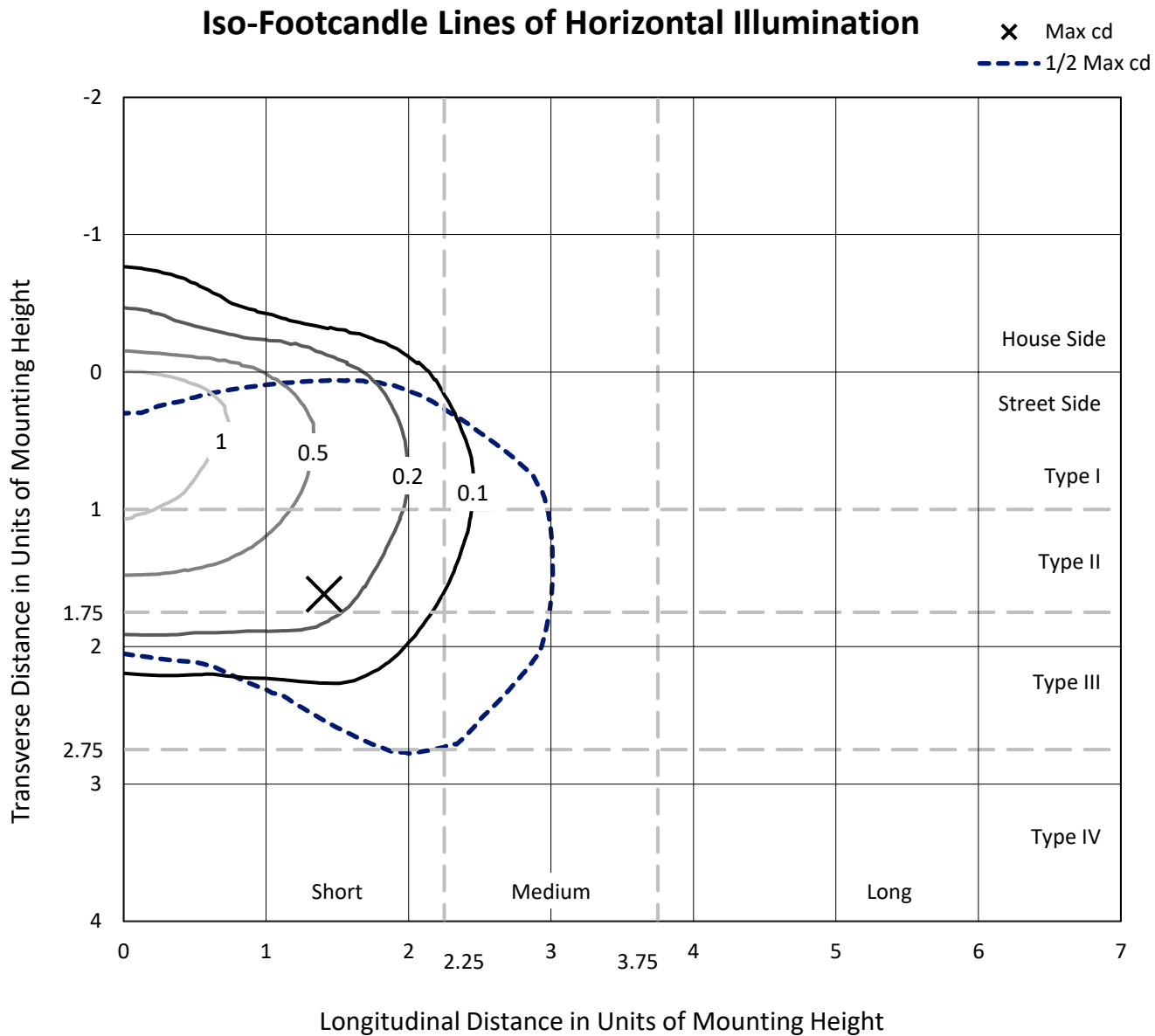
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3746 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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



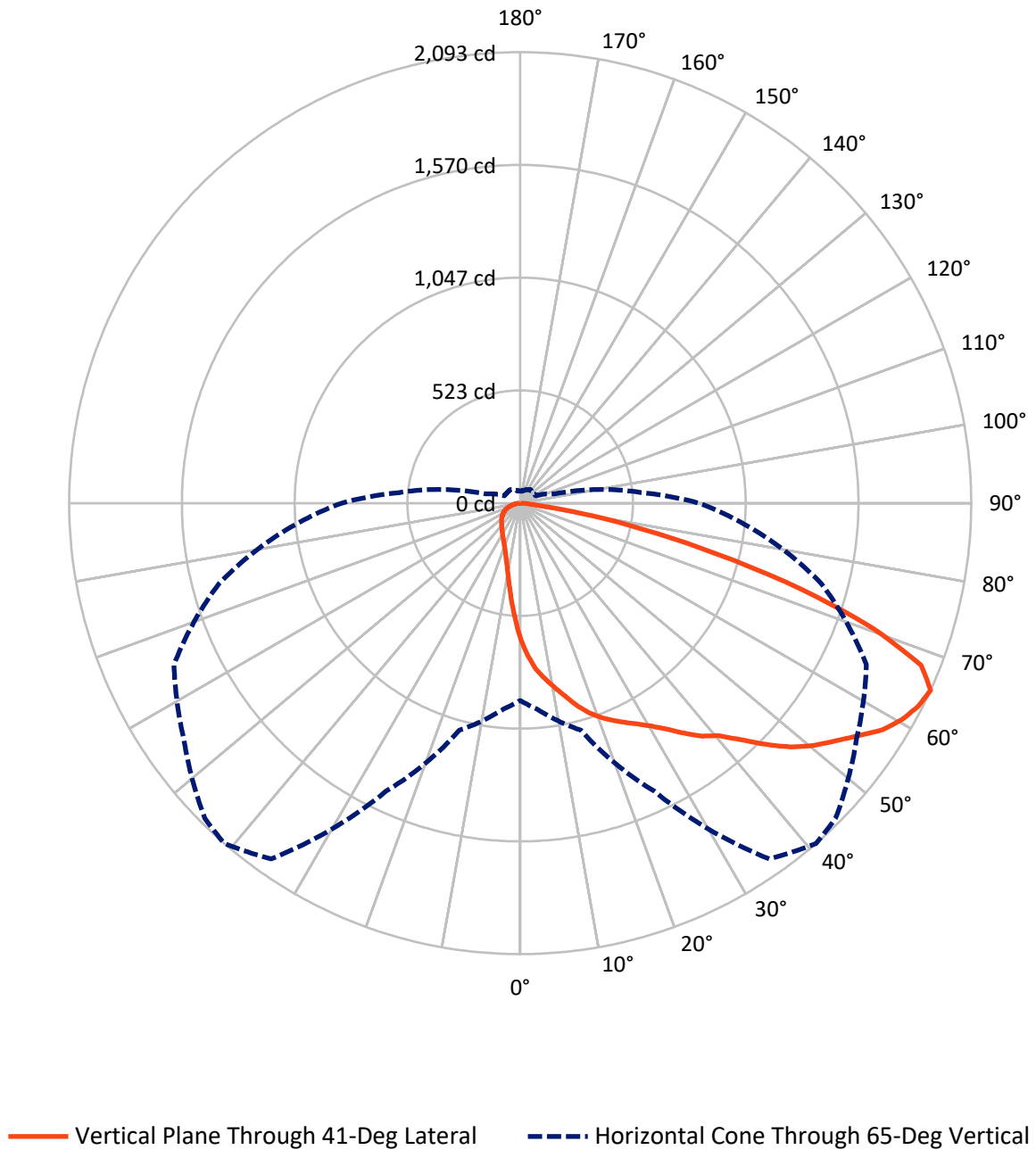
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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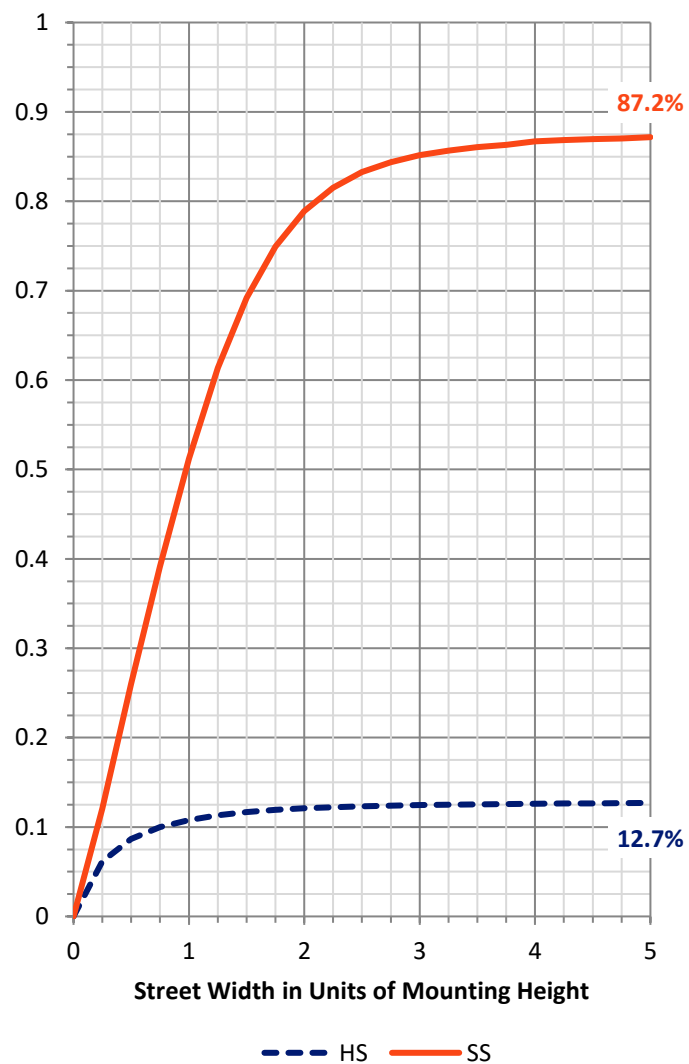
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	480.9	0.0	480.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3265.1	0.0	3265.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	3746.0	0.0	3746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	1.6
10°-20°	178.3	4.8
20°-30°	306.8	8.2
30°-40°	465.3	12.4
40°-50°	681.7	18.2
50°-60°	860.8	23.0
60°-70°	807.2	21.5
70°-80°	359.8	9.6
80°-90°	26.6	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°	3746.0	100.0
0°-180°	3746.0	100.0

Coefficient of Utilization



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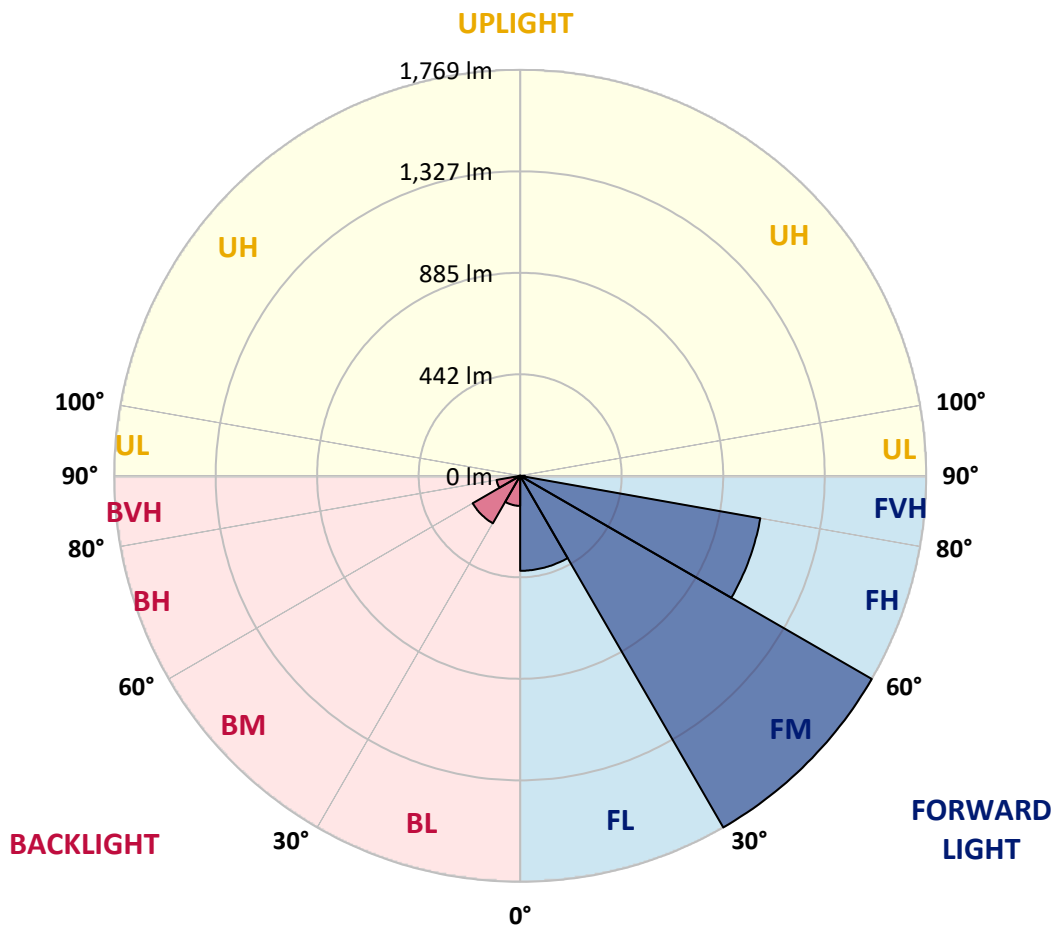
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.7	11.0			
FM	(30°-60°)	1769.0	47.2			
FH	(60°-80°)	1062.5	28.4			G1/1800
FVH	(80°-90°)	19.9	0.5			G1/100
BL	(0°-30°)	130.9	3.5	B1/500		
BM	(30°-60°)	238.8	6.4	B1/1000		
BH	(60°-80°)	104.5	2.8	B0/110		G0/110
BVH	(80°-90°)	6.7	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3
2.5°	736.3	733.9	732.3	723.6	723.6	711.8	712.6	701.5	688.1	666.7	643.8
5°	805.8	802.6	798.7	790.0	786.8	775.0	773.4	757.6	734.7	697.5	656.5
7.5°	866.6	863.4	857.9	845.3	836.6	822.4	818.4	797.9	772.6	726.8	669.1
10°	921.9	919.5	912.4	896.6	884.8	867.4	860.3	832.6	801.0	750.5	679.4
12.5°	978.0	974.8	965.3	951.9	937.7	917.2	908.5	872.9	832.6	776.5	694.4
15°	1030.1	1025.4	1018.3	1004.1	991.4	971.7	962.2	920.3	871.3	805.8	714.1
17.5°	1064.1	1060.1	1053.8	1045.9	1035.7	1020.6	1011.2	970.1	910.0	834.2	734.7
20°	1084.6	1083.1	1080.7	1075.9	1071.2	1060.9	1053.8	1015.1	951.9	861.9	754.4
22.5°	1100.4	1098.9	1098.1	1098.1	1098.9	1094.9	1090.2	1057.0	992.2	891.1	772.6
25°	1124.9	1124.1	1122.6	1121.0	1126.5	1127.3	1125.7	1102.8	1042.8	929.8	795.5
27.5°	1158.9	1156.5	1153.4	1151.8	1157.3	1161.3	1164.4	1148.6	1096.5	969.3	821.6
30°	1211.0	1203.9	1196.0	1190.5	1194.4	1200.8	1207.9	1198.4	1151.8	1018.3	848.4
32.5°	1272.6	1264.0	1245.8	1235.5	1245.8	1250.5	1256.1	1251.3	1209.4	1071.2	875.3
35°	1347.7	1337.4	1318.5	1303.5	1321.6	1311.4	1309.0	1304.2	1264.0	1123.3	905.3
37.5°	1472.5	1457.5	1427.5	1394.3	1394.3	1372.2	1363.5	1349.3	1312.9	1170.0	934.5
40°	1617.1	1597.3	1558.6	1509.6	1464.6	1418.8	1413.3	1403.0	1370.6	1223.7	967.7
42.5°	1775.9	1737.9	1684.2	1625.0	1552.3	1500.2	1487.5	1458.3	1426.7	1278.2	1000.9
45°	1952.0	1873.0	1794.8	1764.8	1644.7	1597.3	1573.6	1520.7	1485.2	1335.1	1035.7
47.5°	1980.5	1918.8	1866.7	1862.0	1730.8	1691.3	1664.5	1588.6	1548.3	1395.9	1072.0
50°	1964.7	1927.5	1933.1	1914.1	1794.0	1768.0	1747.4	1661.3	1610.8	1454.3	1105.2
52.5°	1898.3	1918.8	1950.4	1915.7	1854.1	1832.7	1822.5	1739.5	1669.2	1508.1	1135.2
55°	1819.3	1833.5	1901.5	1944.1	1923.6	1904.6	1895.1	1830.4	1726.9	1553.1	1162.8
57.5°	1704.0	1697.7	1772.7	1939.4	1996.3	1985.2	1974.9	1919.6	1780.6	1585.5	1180.2
60°	1531.0	1517.5	1612.3	1844.6	2020.0	2037.3	2032.6	1978.9	1821.7	1584.7	1173.1
62.5°	1231.6	1264.7	1395.9	1689.8	2030.2	2074.5	2065.8	1983.6	1835.1	1538.9	1128.1
65°	915.6	963.0	1091.7	1476.5	2016.0	2093.4	2069.7	1906.2	1772.7	1448.0	1029.3
67.5°	659.6	701.5	795.5	1215.0	1879.3	2006.5	1978.9	1779.8	1628.9	1319.3	892.7
70°	451.1	481.1	545.1	884.8	1604.4	1734.8	1717.4	1591.0	1402.2	1166.0	725.2
72.5°	318.4	331.0	372.1	583.8	1218.9	1361.1	1340.6	1309.0	1126.5	969.3	564.0
75°	238.6	246.5	268.6	377.6	822.4	943.2	924.3	942.4	841.3	733.9	410.8
77.5°	90.1	98.0	152.5	240.9	486.6	579.1	560.1	571.2	467.7	370.5	204.6
80°	24.5	26.1	50.6	114.5	221.2	288.3	262.3	225.1	173.8	170.6	108.2
82.5°	10.3	11.8	22.9	61.6	79.0	79.0	66.4	82.2	66.4	79.8	52.1
85°	3.9	4.7	5.5	15.8	10.3	11.1	11.8	15.8	13.4	16.6	11.8
87.5°	0.0	0.0	0.0	0.8	0.8	1.6	0.8	1.6	2.4	2.4	2.4
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°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3
2.5°	634.3	625.7	613.0	592.5	571.2	559.3	544.3	541.9	526.1	524.5	518.2
5°	638.3	620.1	587.7	548.2	509.5	479.5	457.4	445.5	422.6	422.6	416.3
7.5°	641.5	613.0	560.9	502.4	449.5	409.2	379.2	366.5	346.0	344.4	339.7
10°	642.2	604.3	531.7	455.8	391.0	350.0	320.7	306.5	288.3	286.8	283.6
12.5°	648.6	599.6	505.6	415.5	349.2	304.9	276.5	264.6	250.4	248.8	245.7
15°	658.8	599.6	483.5	381.6	312.0	271.0	246.5	235.4	225.1	223.6	222.0
17.5°	669.1	598.0	461.3	350.0	281.2	244.1	222.8	214.1	206.2	205.4	203.8
20°	678.6	597.2	439.2	323.1	257.5	222.0	205.4	197.5	191.2	191.2	190.4
22.5°	688.1	595.6	417.9	297.8	237.0	205.4	191.2	182.5	177.7	177.7	177.0
25°	702.3	595.6	398.1	276.5	220.4	192.8	178.5	172.2	168.3	167.5	167.5
27.5°	718.9	600.4	380.8	257.5	206.2	180.1	169.1	162.7	158.0	156.4	157.2
30°	737.0	604.3	365.0	240.9	192.8	170.6	158.8	152.5	147.7	146.1	146.9
32.5°	755.2	609.1	350.7	225.9	179.3	161.9	150.1	143.0	138.2	137.5	137.5
35°	775.0	613.8	336.5	213.3	168.3	153.3	142.2	134.3	131.1	129.6	130.3
37.5°	794.7	621.7	323.1	201.4	160.4	145.4	135.1	127.2	124.8	124.0	124.0
40°	818.4	633.6	317.6	193.5	153.3	138.2	129.6	121.7	119.3	119.3	119.3
42.5°	838.2	643.0	312.8	184.9	147.7	131.9	124.0	117.7	116.1	115.3	116.1
45°	857.9	651.7	306.5	177.0	140.6	125.6	119.3	113.0	111.4	111.4	111.4
47.5°	877.7	656.5	297.8	169.1	134.3	120.1	114.5	109.0	107.4	107.4	107.4
50°	893.5	660.4	285.2	160.4	127.2	115.3	109.8	104.3	102.7	102.7	102.7
52.5°	909.3	661.2	271.8	150.1	120.1	109.8	105.1	99.5	98.0	97.2	97.2
55°	923.5	660.4	256.0	138.2	112.2	103.5	99.5	94.8	91.6	88.5	90.1
57.5°	933.7	659.6	237.8	126.4	104.3	97.2	95.6	89.3	82.9	75.0	76.6
60°	929.8	650.9	218.0	111.4	95.6	90.8	90.8	82.2	71.1	67.1	67.9
62.5°	904.5	626.4	197.5	95.6	86.9	84.5	83.7	74.3	65.6	61.6	62.4
65°	828.7	564.8	167.5	81.4	78.2	77.4	77.4	68.7	60.8	56.1	56.9
67.5°	713.3	474.0	136.7	68.7	69.5	71.1	71.1	63.2	55.3	50.6	51.3
70°	571.9	370.5	109.0	59.2	60.0	62.4	64.0	56.9	49.8	45.0	45.0
72.5°	430.5	281.2	87.7	49.8	53.7	53.7	56.1	50.6	43.4	38.7	39.5
75°	312.0	201.4	69.5	41.9	46.6	45.8	45.8	42.7	37.1	34.0	34.0
77.5°	147.7	105.9	55.3	30.0	36.3	35.5	36.3	34.0	31.6	28.4	29.2
80°	72.7	52.1	35.5	21.3	25.3	26.1	28.4	26.9	26.1	23.7	23.7
82.5°	34.8	20.5	16.6	15.0	17.4	18.2	19.7	19.7	20.5	19.0	19.0
85°	9.5	5.5	7.1	9.5	11.1	11.8	13.4	14.2	14.2	13.4	14.2
87.5°	2.4	2.4	3.2	4.7	5.5	6.3	7.1	7.1	3.2	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)