

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: P799604

Luminaire Tested: **ARCH2-40-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

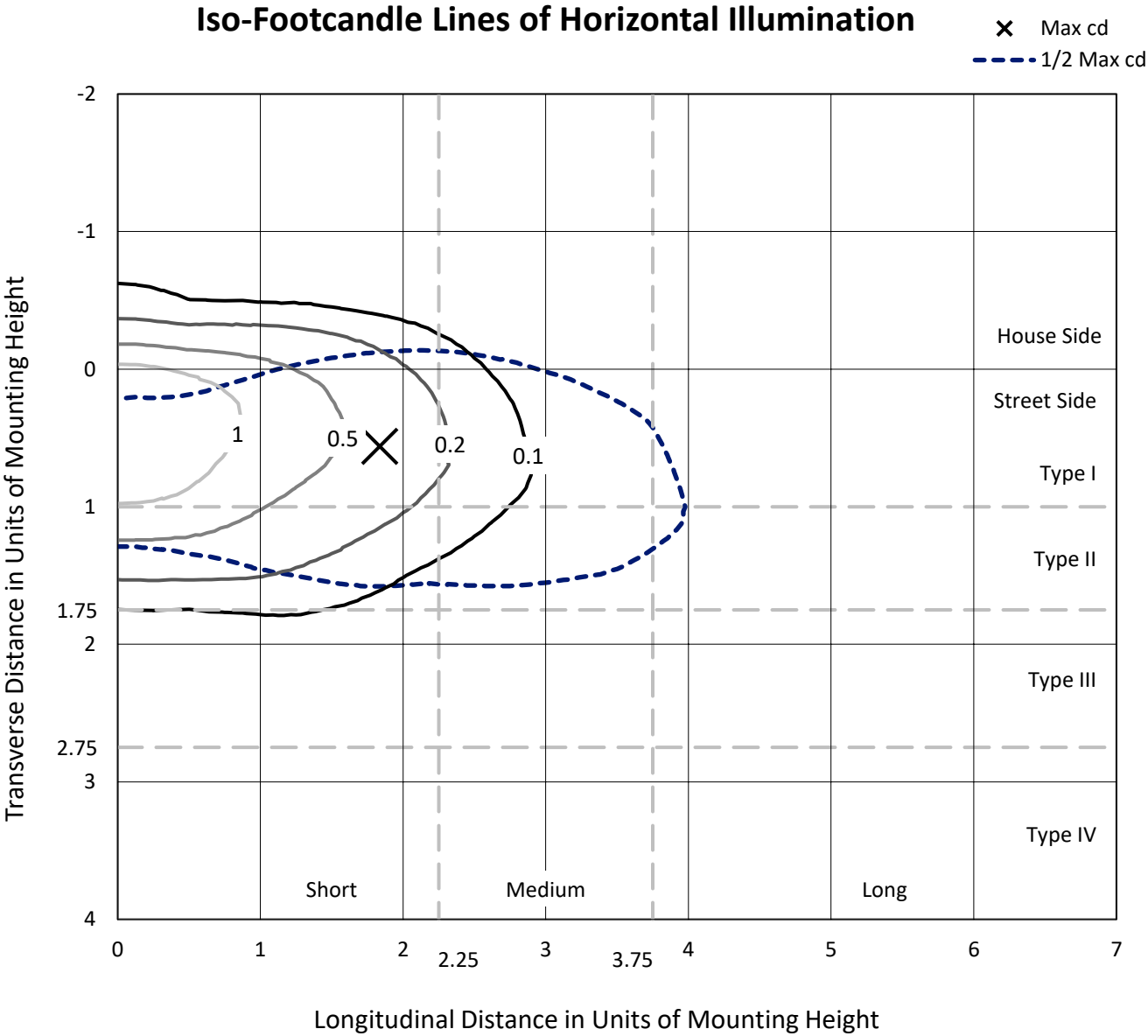
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3769 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

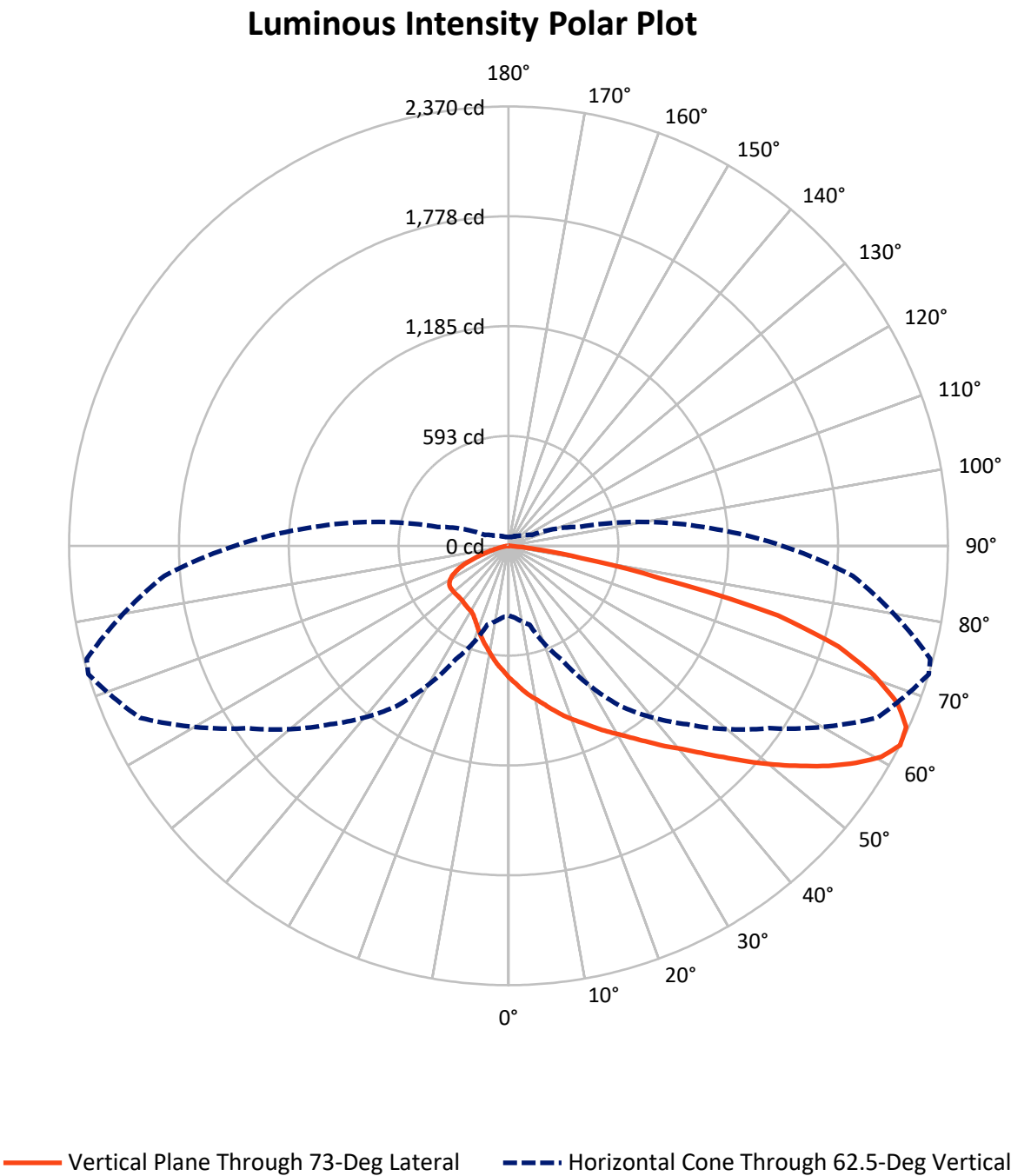


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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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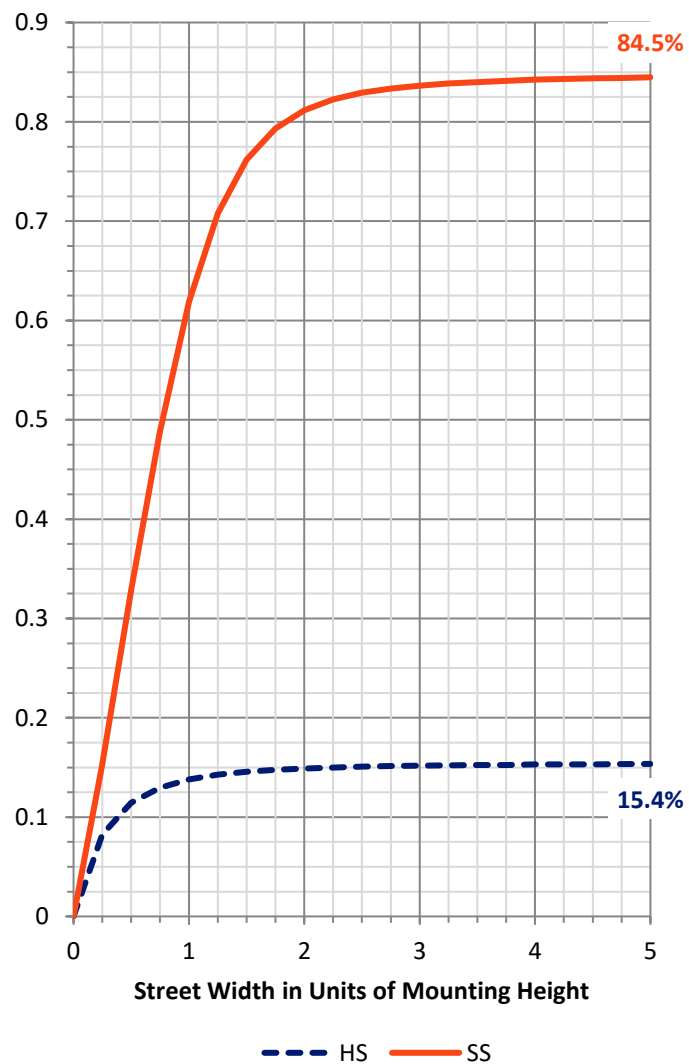
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.3	0.0	584.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3184.8	0.0	3184.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	3769.0	0.0	3769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.8
10°-20°	208.0	5.5
20°-30°	346.3	9.2
30°-40°	522.5	13.9
40°-50°	730.3	19.4
50°-60°	806.7	21.4
60°-70°	702.7	18.6
70°-80°	355.0	9.4
80°-90°	28.5	0.8
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°	3769.0	100.0
0°-180°	3769.0	100.0

Coefficient of Utilization



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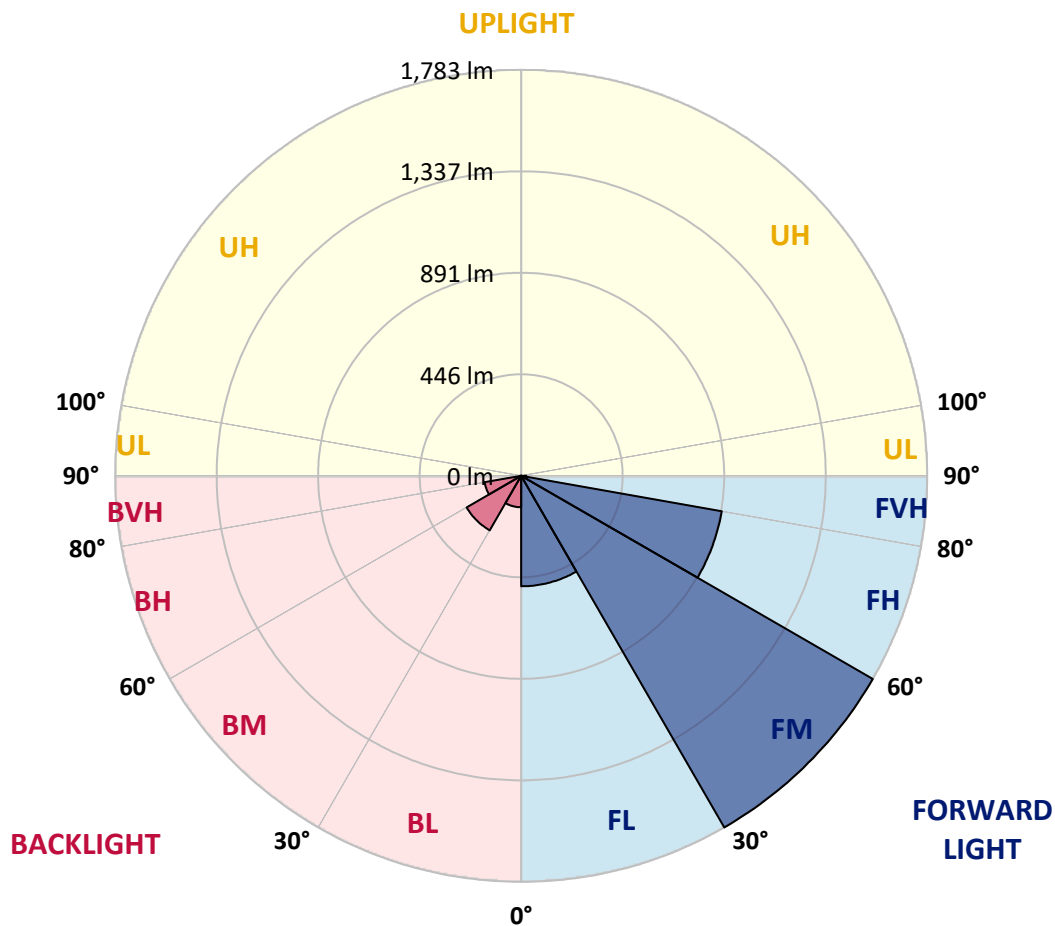
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	485.2	12.9			
FM	(30°-60°)	1782.9	47.3			
FH	(60°-80°)	894.6	23.7			G1/1800
FVH	(80°-90°)	22.1	0.6			G1/100
BL	(0°-30°)	138.1	3.7	B1/500		
BM	(30°-60°)	276.6	7.3	B1/1000		
BH	(60°-80°)	163.1	4.3	B1/500		G1/500
BVH	(80°-90°)	6.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7
2.5°	812.2	821.3	816.3	819.6	803.2	792.5	780.2	756.4	743.2	741.6	726.0
5°	931.3	941.2	932.9	930.5	901.7	877.1	849.2	807.3	779.4	774.4	739.9
7.5°	1050.4	1059.4	1049.6	1042.2	1003.6	960.0	919.0	857.4	813.9	805.6	751.4
10°	1134.1	1142.4	1135.0	1127.6	1087.3	1043.0	984.7	904.2	845.1	831.9	758.8
12.5°	1197.4	1202.3	1199.0	1192.5	1154.7	1107.0	1051.2	956.8	880.4	864.0	770.3
15°	1249.1	1257.3	1253.2	1248.3	1212.2	1164.5	1111.2	1011.8	921.4	900.9	787.6
17.5°	1283.6	1289.4	1290.2	1290.2	1258.2	1211.3	1159.6	1061.9	962.5	936.2	804.0
20°	1299.2	1305.8	1309.9	1316.5	1290.2	1249.9	1197.4	1104.6	1001.1	971.5	819.6
22.5°	1306.6	1312.4	1323.0	1337.8	1316.5	1282.8	1234.3	1144.0	1039.7	1008.5	837.7
25°	1312.4	1319.8	1335.4	1363.3	1348.5	1319.8	1277.9	1189.2	1085.7	1053.7	864.0
27.5°	1328.0	1337.0	1351.8	1385.5	1367.4	1353.4	1323.9	1237.6	1134.1	1101.3	896.0
30°	1382.2	1389.6	1388.7	1410.1	1387.9	1383.8	1363.3	1284.4	1181.0	1148.1	933.8
32.5°	1480.7	1488.1	1470.0	1461.8	1413.4	1414.2	1406.0	1334.5	1236.8	1203.1	977.3
35°	1586.7	1594.9	1571.1	1557.1	1475.8	1452.0	1456.1	1396.9	1299.2	1265.5	1031.5
37.5°	1681.1	1691.0	1670.4	1649.9	1567.8	1512.7	1511.9	1466.8	1370.7	1336.2	1091.4
40°	1732.8	1744.3	1756.7	1745.2	1658.9	1598.2	1571.9	1538.2	1441.3	1406.0	1156.3
42.5°	1757.5	1789.5	1811.7	1804.3	1733.7	1672.1	1640.9	1612.9	1527.5	1493.0	1233.5
45°	1688.5	1689.3	1736.1	1776.4	1763.2	1722.2	1716.4	1696.7	1626.1	1593.2	1320.6
47.5°	1602.3	1595.7	1628.5	1700.0	1736.9	1747.6	1781.3	1789.5	1738.6	1705.7	1409.3
50°	1395.3	1399.4	1506.2	1608.8	1681.1	1750.1	1827.3	1884.8	1854.4	1823.2	1502.9
52.5°	1135.0	1144.8	1267.2	1493.0	1607.2	1725.5	1854.4	1980.0	1972.6	1943.1	1596.5
55°	909.9	925.6	1055.3	1300.0	1512.7	1670.4	1865.9	2067.1	2095.0	2067.9	1688.5
57.5°	695.6	712.0	821.3	1072.6	1392.0	1580.9	1857.7	2143.5	2209.2	2191.9	1773.1
60°	524.0	540.4	610.2	869.7	1240.9	1480.7	1816.6	2193.6	2311.8	2293.8	1834.7
62.5°	375.3	388.5	440.2	676.7	1057.0	1361.6	1715.6	2194.4	2370.1	2355.4	1864.2
65°	270.2	270.2	312.1	482.9	884.5	1218.7	1562.8	2093.4	2357.8	2353.7	1843.7
67.5°	194.6	196.3	230.0	337.5	705.5	1045.5	1364.9	1913.5	2262.5	2283.1	1769.8
70°	138.0	142.1	157.7	235.7	533.0	825.4	1153.0	1677.8	2090.9	2127.0	1626.9
72.5°	106.8	109.2	119.9	164.3	389.3	613.5	919.0	1415.0	1861.8	1902.8	1432.3
75°	82.1	84.6	92.8	120.7	279.2	430.3	652.9	1098.0	1501.2	1574.3	1150.6
77.5°	60.0	63.2	69.0	87.9	162.6	273.5	395.8	617.6	828.6	863.1	602.8
80°	27.9	32.0	40.2	56.7	87.9	128.9	140.4	238.2	398.3	416.4	326.9
82.5°	15.6	19.7	23.0	34.5	44.3	46.0	47.6	60.0	150.3	165.9	137.1
85°	7.4	9.9	10.7	14.8	14.8	13.1	15.6	11.5	24.6	29.6	28.7
87.5°	0.0	0.8	1.6	4.1	3.3	2.5	2.5	2.5	2.5	3.3	2.5
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°	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7	713.7
2.5°	718.6	707.9	683.3	661.9	648.0	635.6	619.2	611.8	598.7	601.2	593.8
5°	722.7	703.0	659.5	619.2	589.7	563.4	534.6	518.2	500.1	498.5	492.8
7.5°	725.2	694.8	632.4	575.7	530.5	490.3	451.7	430.3	408.2	403.2	398.3
10°	722.7	682.5	604.4	530.5	470.6	420.5	377.0	349.9	326.9	321.1	316.2
12.5°	725.2	675.9	578.2	488.6	417.2	360.5	311.3	283.3	262.0	256.2	252.9
15°	730.9	671.8	556.0	450.9	369.6	306.3	257.9	234.1	216.8	211.1	209.4
17.5°	735.8	667.7	532.2	413.9	321.9	258.7	216.8	197.1	182.3	176.6	174.9
20°	742.4	661.9	508.4	378.6	280.0	220.9	184.0	166.7	155.2	151.1	150.3
22.5°	748.2	657.8	486.2	343.3	241.4	190.5	159.3	145.4	137.1	133.0	133.0
25°	762.9	659.5	467.3	310.4	212.7	166.7	140.4	129.8	123.2	120.7	120.7
27.5°	780.2	666.0	452.5	282.5	188.1	148.6	127.3	118.3	115.0	111.7	112.5
30°	804.8	679.2	442.7	259.5	170.0	134.7	116.6	110.0	106.8	105.9	105.9
32.5°	836.0	700.5	441.8	244.7	156.9	124.0	109.2	103.5	101.8	101.0	101.0
35°	873.0	719.4	436.9	238.2	148.6	116.6	103.5	99.4	98.6	98.6	98.6
37.5°	917.3	750.6	433.6	229.1	144.5	112.5	99.4	96.1	96.1	96.1	96.1
40°	963.3	776.1	428.7	220.9	142.9	110.0	96.9	92.8	92.8	92.8	92.8
42.5°	1018.4	813.0	427.1	216.8	140.4	108.4	93.6	88.7	89.5	89.5	90.3
45°	1084.9	854.9	426.2	212.7	139.6	106.8	90.3	84.6	85.4	84.6	84.6
47.5°	1152.2	903.4	428.7	210.2	138.8	105.1	87.9	80.5	80.5	79.7	79.7
50°	1222.8	947.7	430.3	207.8	137.1	101.8	83.8	77.2	75.6	73.9	74.7
52.5°	1289.4	988.8	431.2	203.7	132.2	96.9	80.5	73.1	70.6	68.2	69.0
55°	1355.9	1028.2	432.8	198.7	125.7	92.0	76.4	69.0	65.7	62.4	62.4
57.5°	1415.8	1062.7	428.7	186.4	118.3	87.1	72.3	64.1	59.1	55.8	55.8
60°	1456.9	1087.3	416.4	168.4	108.4	81.3	68.2	59.1	53.4	50.9	50.9
62.5°	1476.6	1091.4	394.2	138.8	96.1	75.6	63.2	54.2	49.3	47.6	47.6
65°	1457.7	1073.4	359.7	104.3	82.9	69.0	58.3	50.1	45.2	41.1	41.1
67.5°	1392.0	1022.5	312.1	78.8	70.6	62.4	53.4	46.0	40.2	37.0	37.0
70°	1259.8	916.5	241.4	63.2	60.0	54.2	48.5	41.1	36.1	32.0	32.0
72.5°	1086.5	776.9	170.0	50.9	50.9	46.0	41.1	36.1	31.2	27.9	27.9
75°	833.6	574.9	114.2	41.1	41.9	38.6	33.7	29.6	26.3	23.8	23.8
77.5°	455.0	284.2	69.8	30.4	31.2	29.6	26.3	23.8	22.2	19.7	19.7
80°	220.9	124.8	40.2	21.4	22.2	21.4	19.7	17.2	17.2	15.6	15.6
82.5°	92.8	46.8	21.4	14.8	14.8	13.1	12.3	12.3	12.3	11.5	11.5
85°	23.0	9.0	9.0	8.2	8.2	8.2	7.4	7.4	7.4	5.7	6.6
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	0.8	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)