

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: P799096

Luminaire Tested: **ARCH1-60-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799096
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: ARCH1-60-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

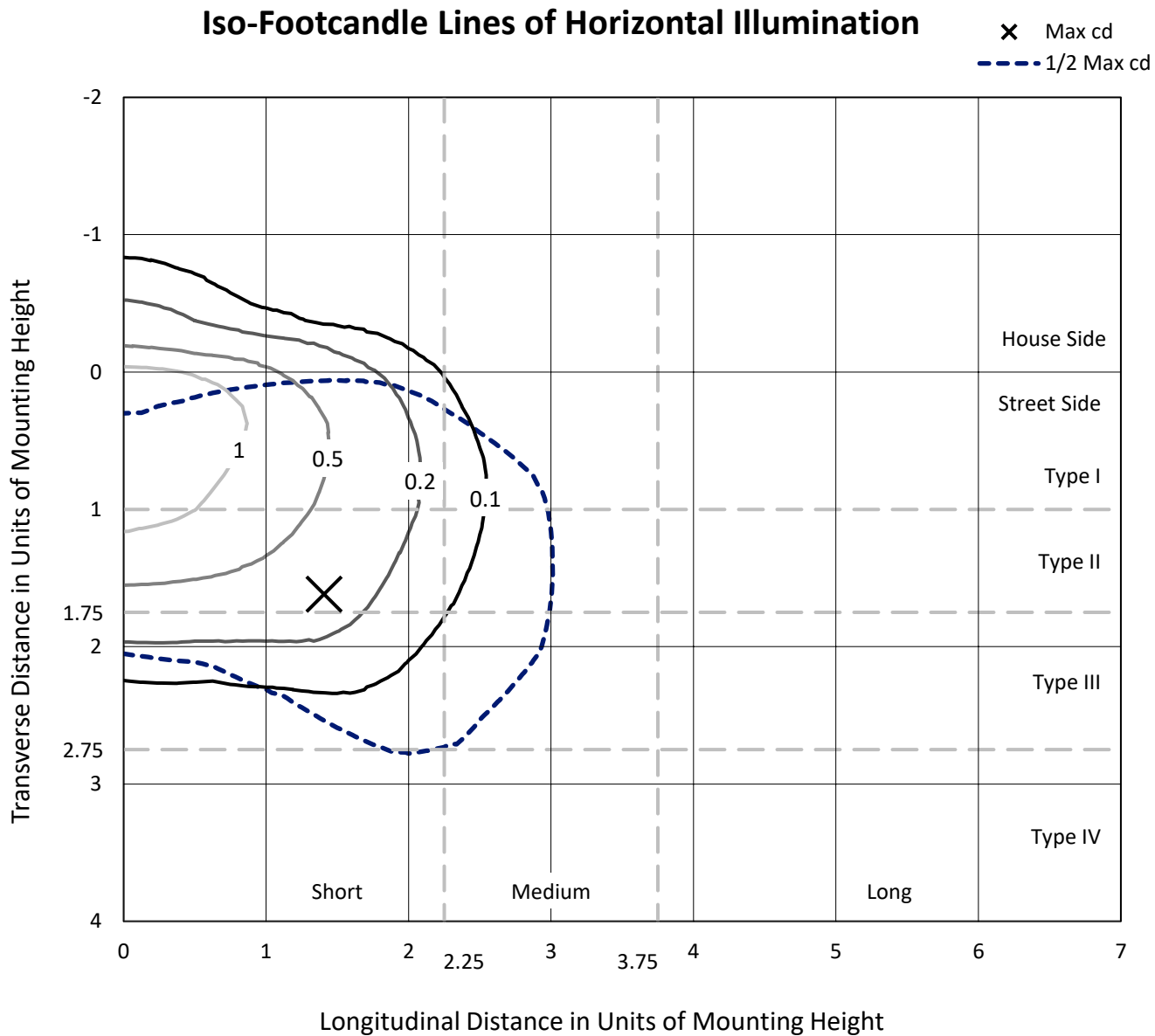
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4283 lumens
Efficiency: N/A
Efficacy: 71.4 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): 60
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

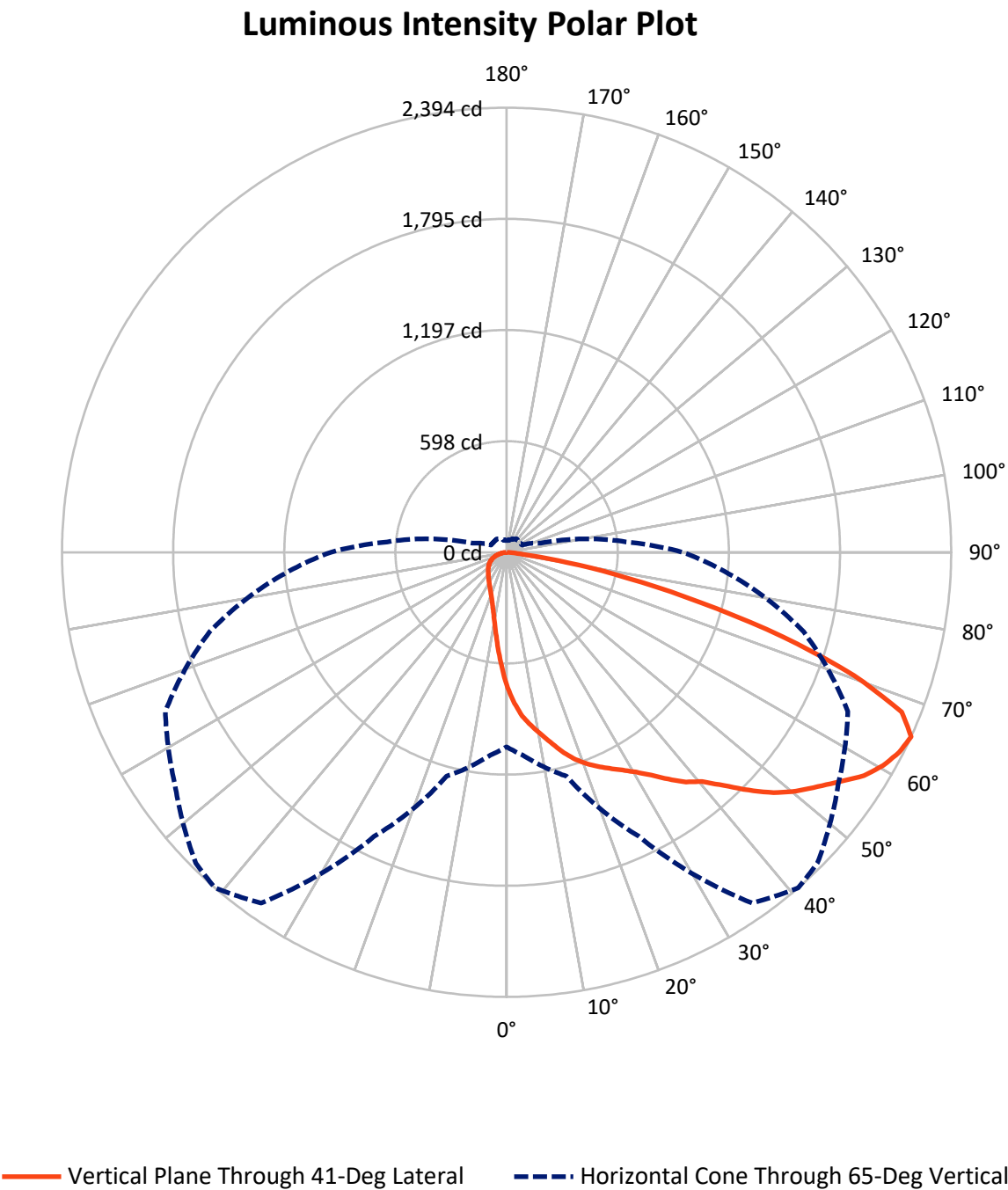


REPORT NUMBER: P799096
CATALOG NUMBER: ARCH1-60-722-U-T4W-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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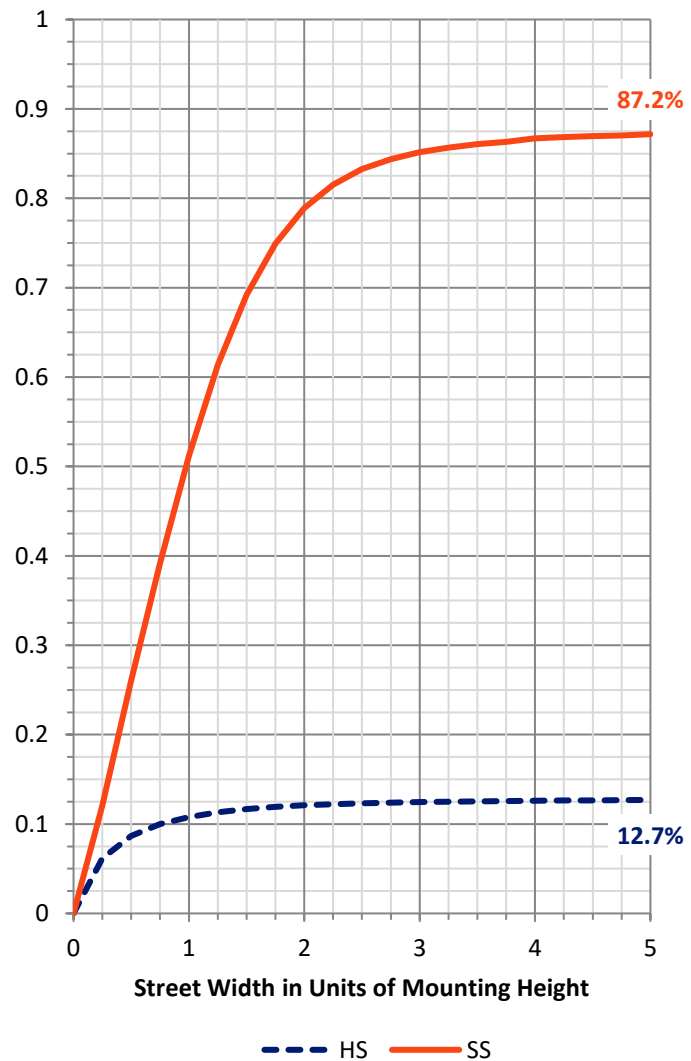
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.9	0.0	549.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3733.1	0.0	3733.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	4283.0	0.0	4283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	1.6
10°-20°	203.9	4.8
20°-30°	350.8	8.2
30°-40°	532.0	12.4
40°-50°	779.4	18.2
50°-60°	984.2	23.0
60°-70°	922.9	21.5
70°-80°	411.3	9.6
80°-90°	30.5	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°	4283.0	100.0
0°-180°	4283.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799096

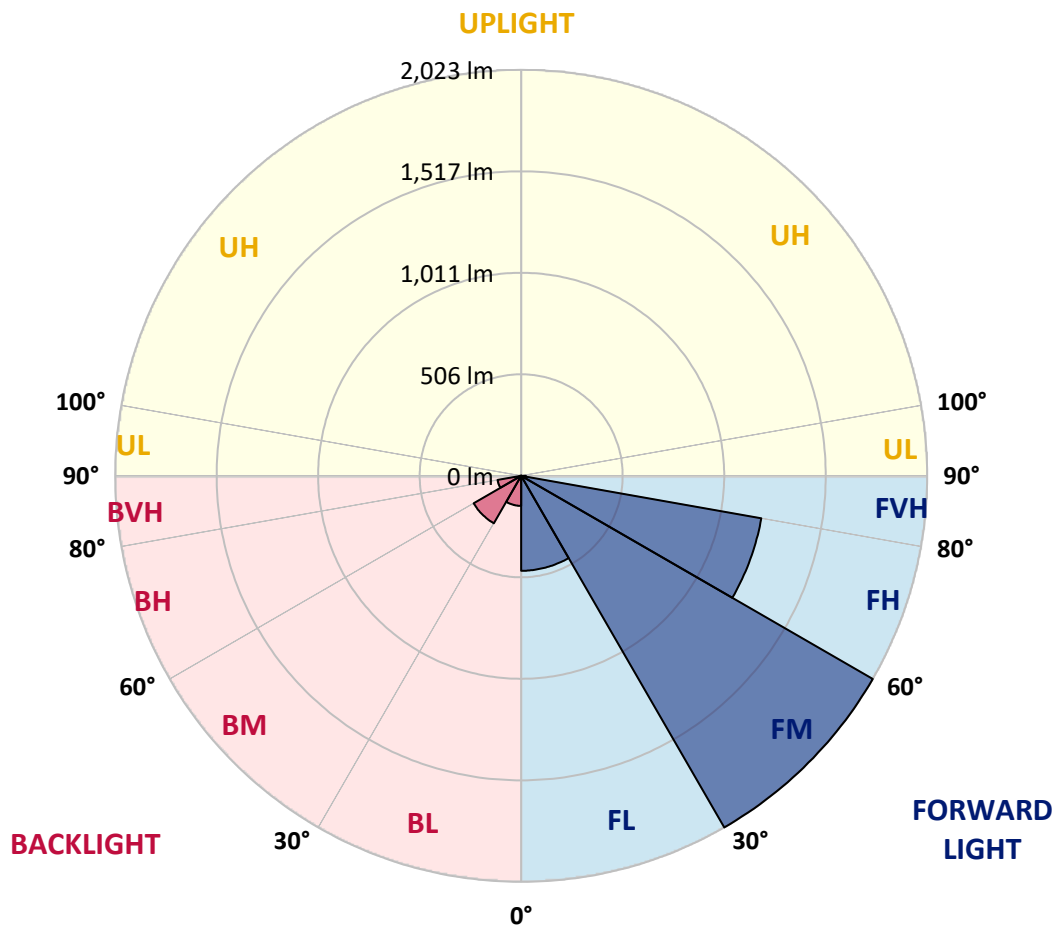
CATALOG NUMBER: ARCH1-60-722-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.0	11.0			
FM	(30°-60°)	2022.6	47.2			
FH	(60°-80°)	1214.8	28.4			G1/1800
FVH	(80°-90°)	22.8	0.5			G1/100
BL	(0°-30°)	149.7	3.5	B1/500		
BM	(30°-60°)	273.0	6.4	B1/1000		
BH	(60°-80°)	119.4	2.8	B1/500		G1/500
BVH	(80°-90°)	7.7	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



REPORT NUMBER: P799096

CATALOG NUMBER: ARCH1-60-722-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	841.8	839.1	837.3	827.3	827.3	813.8	814.7	802.1	786.7	762.3	736.1
5°	921.3	917.7	913.2	903.2	899.6	886.1	884.3	866.2	840.0	797.5	750.6
7.5°	990.8	987.2	980.9	966.4	956.5	940.3	935.7	912.3	883.3	831.0	765.0
10°	1054.1	1051.3	1043.2	1025.2	1011.6	991.7	983.6	952.0	915.9	858.1	776.8
12.5°	1118.2	1114.6	1103.7	1088.4	1072.1	1048.6	1038.7	998.1	952.0	887.9	793.9
15°	1177.8	1172.4	1164.2	1148.0	1133.5	1111.0	1100.1	1052.2	996.3	921.3	816.5
17.5°	1216.6	1212.1	1204.9	1195.9	1184.1	1167.0	1156.1	1109.2	1040.5	953.8	840.0
20°	1240.1	1238.3	1235.6	1230.2	1224.8	1213.0	1204.9	1160.6	1088.4	985.4	862.6
22.5°	1258.2	1256.4	1255.5	1255.5	1256.4	1251.9	1246.4	1208.5	1134.4	1018.8	883.3
25°	1286.2	1285.3	1283.5	1281.7	1288.0	1288.9	1287.1	1260.9	1192.2	1063.1	909.5
27.5°	1325.0	1322.3	1318.7	1316.9	1323.2	1327.7	1331.3	1313.3	1253.7	1108.2	939.3
30°	1384.6	1376.5	1367.5	1361.2	1365.7	1372.9	1381.0	1370.2	1316.9	1164.2	970.1
32.5°	1455.1	1445.2	1424.4	1412.6	1424.4	1429.8	1436.1	1430.7	1382.8	1224.8	1000.8
35°	1540.9	1529.1	1507.5	1490.3	1511.1	1499.3	1496.6	1491.2	1445.2	1284.4	1035.1
37.5°	1683.6	1666.4	1632.1	1594.2	1594.2	1568.9	1559.0	1542.7	1501.1	1337.7	1068.5
40°	1848.9	1826.3	1782.1	1726.1	1674.6	1622.2	1615.9	1604.1	1567.1	1399.1	1106.4
42.5°	2030.4	1987.1	1925.7	1857.9	1774.8	1715.2	1700.8	1667.3	1631.2	1461.4	1144.4
45°	2231.9	2141.5	2052.1	2017.8	1880.5	1826.3	1799.2	1738.7	1698.1	1526.4	1184.1
47.5°	2264.4	2193.9	2134.3	2128.9	1979.0	1933.8	1903.1	1816.4	1770.3	1596.0	1225.7
50°	2246.3	2203.9	2210.2	2188.5	2051.2	2021.4	1997.9	1899.5	1841.7	1662.8	1263.6
52.5°	2170.4	2193.9	2230.0	2190.3	2119.9	2095.5	2083.7	1988.9	1908.5	1724.2	1297.9
55°	2080.1	2096.4	2174.0	2222.8	2199.3	2177.7	2166.8	2092.8	1974.4	1775.7	1329.5
57.5°	1948.2	1941.0	2026.8	2217.4	2282.4	2269.8	2258.0	2194.8	2035.9	1812.8	1349.4
60°	1750.4	1735.1	1843.5	2109.0	2309.5	2329.4	2324.0	2262.6	2082.8	1811.9	1341.3
62.5°	1408.1	1446.1	1596.0	1932.0	2321.3	2371.9	2361.9	2268.0	2098.2	1759.5	1289.8
65°	1046.8	1101.0	1248.2	1688.1	2305.0	2393.5	2366.4	2179.5	2026.8	1655.6	1176.9
67.5°	754.2	802.1	909.5	1389.2	2148.8	2294.2	2262.6	2035.0	1862.4	1508.4	1020.6
70°	515.7	550.1	623.2	1011.6	1834.4	1983.5	1963.6	1819.1	1603.2	1333.2	829.2
72.5°	364.0	378.4	425.4	667.5	1393.7	1556.2	1532.8	1496.6	1288.0	1108.2	644.9
75°	272.8	281.8	307.1	431.7	940.3	1078.4	1056.8	1077.5	961.9	839.1	469.7
77.5°	103.0	112.0	174.3	275.5	556.4	662.1	640.4	653.0	534.7	423.6	233.9
80°	28.0	29.8	57.8	131.0	252.9	329.7	299.9	257.4	198.7	195.1	123.7
82.5°	11.7	13.5	26.2	70.5	90.3	90.3	75.9	93.9	75.9	91.2	59.6
85°	4.5	5.4	6.3	18.1	11.7	12.6	13.5	18.1	15.4	19.0	13.5
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	0.9	1.8	2.7	2.7	2.7
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: P799096

CATALOG NUMBER: ARCH1-60-722-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	725.3	715.3	700.9	677.4	653.0	639.5	622.3	619.6	601.5	599.7	592.5
5°	729.8	709.0	672.0	626.8	582.6	548.3	523.0	509.4	483.2	483.2	476.0
7.5°	733.4	700.9	641.3	574.4	513.9	467.9	433.5	419.1	395.6	393.8	388.4
10°	734.3	691.0	607.9	521.2	447.1	400.1	366.7	350.4	329.7	327.9	324.3
12.5°	741.5	685.5	578.1	475.1	399.2	348.6	316.1	302.6	286.3	284.5	280.9
15°	753.3	685.5	552.8	436.3	356.8	309.8	281.8	269.2	257.4	255.6	253.8
17.5°	765.0	683.7	527.5	400.1	321.5	279.1	254.7	244.8	235.7	234.8	233.0
20°	775.9	682.8	502.2	369.4	294.4	253.8	234.8	225.8	218.6	218.6	217.7
22.5°	786.7	681.0	477.8	340.5	271.0	234.8	218.6	208.6	203.2	203.2	202.3
25°	803.0	681.0	455.2	316.1	252.0	220.4	204.1	196.9	192.4	191.5	191.5
27.5°	821.9	686.4	435.4	294.4	235.7	205.9	193.3	186.1	180.6	178.8	179.7
30°	842.7	691.0	417.3	275.5	220.4	195.1	181.5	174.3	168.9	167.1	168.0
32.5°	863.5	696.4	401.0	258.3	205.0	185.2	171.6	163.5	158.1	157.2	157.2
35°	886.1	701.8	384.8	243.9	192.4	175.2	162.6	153.5	149.9	148.1	149.0
37.5°	908.6	710.8	369.4	230.3	183.4	166.2	154.5	145.4	142.7	141.8	141.8
40°	935.7	724.4	363.1	221.3	175.2	158.1	148.1	139.1	136.4	136.4	136.4
42.5°	958.3	735.2	357.7	211.4	168.9	150.8	141.8	134.6	132.8	131.9	132.8
45°	980.9	745.2	350.4	202.3	160.8	143.6	136.4	129.2	127.4	127.4	127.4
47.5°	1003.5	750.6	340.5	193.3	153.5	137.3	131.0	124.6	122.8	122.8	122.8
50°	1021.5	755.1	326.1	183.4	145.4	131.9	125.5	119.2	117.4	117.4	117.4
52.5°	1039.6	756.0	310.7	171.6	137.3	125.5	120.1	113.8	112.0	111.1	111.1
55°	1055.9	755.1	292.6	158.1	128.3	118.3	113.8	108.4	104.8	101.2	103.0
57.5°	1067.6	754.2	271.9	144.5	119.2	111.1	109.3	102.1	94.8	85.8	87.6
60°	1063.1	744.3	249.3	127.4	109.3	103.9	103.9	93.9	81.3	76.8	77.7
62.5°	1034.2	716.3	225.8	109.3	99.4	96.6	95.7	84.9	75.0	70.5	71.4
65°	947.5	645.8	191.5	93.0	89.4	88.5	88.5	78.6	69.5	64.1	65.0
67.5°	815.6	541.9	156.3	78.6	79.5	81.3	81.3	72.3	63.2	57.8	58.7
70°	653.9	423.6	124.6	67.7	68.6	71.4	73.2	65.0	56.9	51.5	51.5
72.5°	492.3	321.5	100.3	56.9	61.4	61.4	64.1	57.8	49.7	44.3	45.2
75°	356.8	230.3	79.5	47.9	53.3	52.4	52.4	48.8	42.5	38.8	38.8
77.5°	168.9	121.0	63.2	34.3	41.5	40.6	41.5	38.8	36.1	32.5	33.4
80°	83.1	59.6	40.6	24.4	28.9	29.8	32.5	30.7	29.8	27.1	27.1
82.5°	39.7	23.5	19.0	17.2	19.9	20.8	22.6	22.6	23.5	21.7	21.7
85°	10.8	6.3	8.1	10.8	12.6	13.5	15.4	16.3	16.3	15.4	16.3
87.5°	2.7	2.7	3.6	5.4	6.3	7.2	8.1	8.1	3.6	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)