

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: P799640

Luminaire Tested: **ARCH2-40-730-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799640
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: ARCH2-40-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

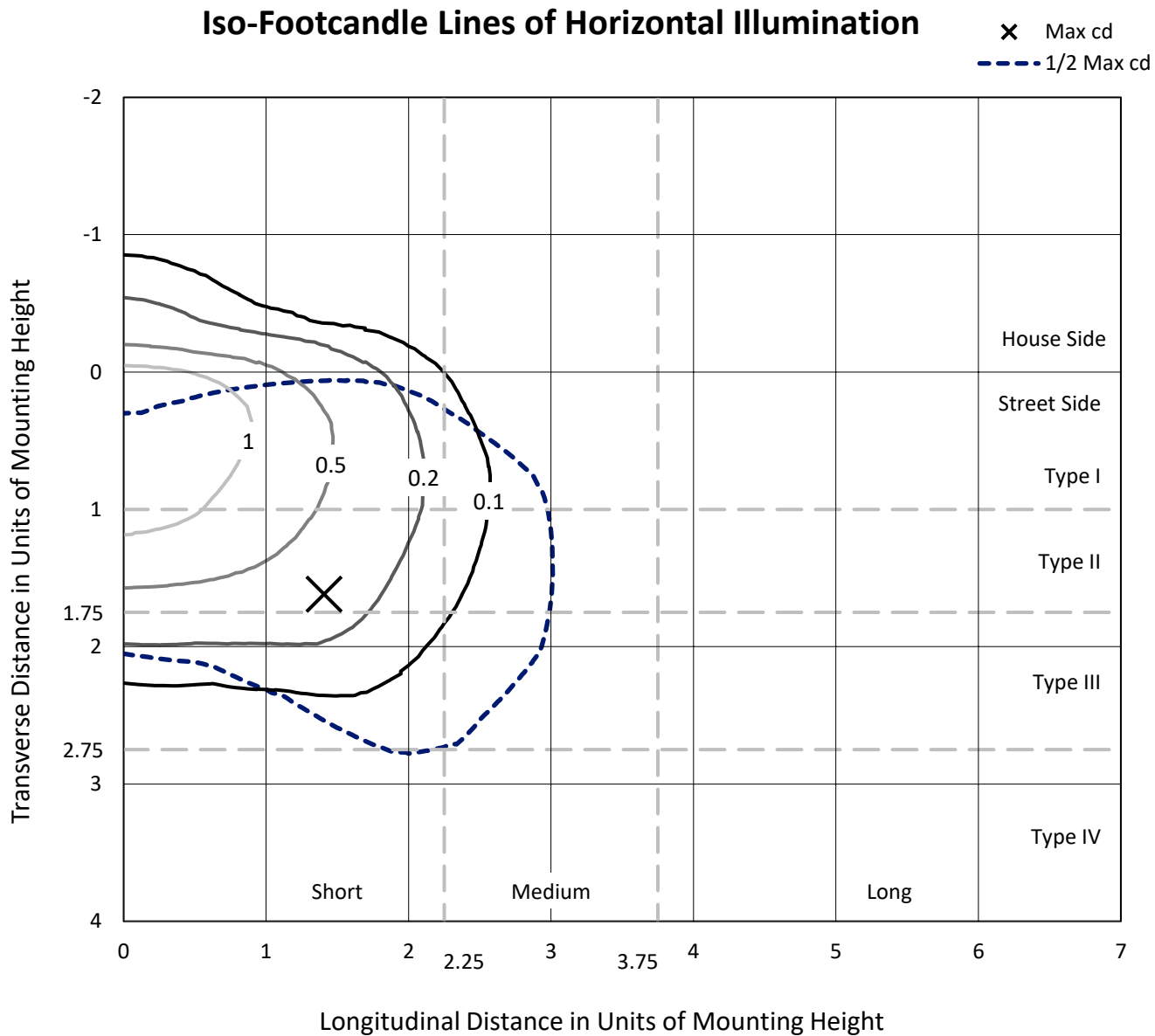
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4451 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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

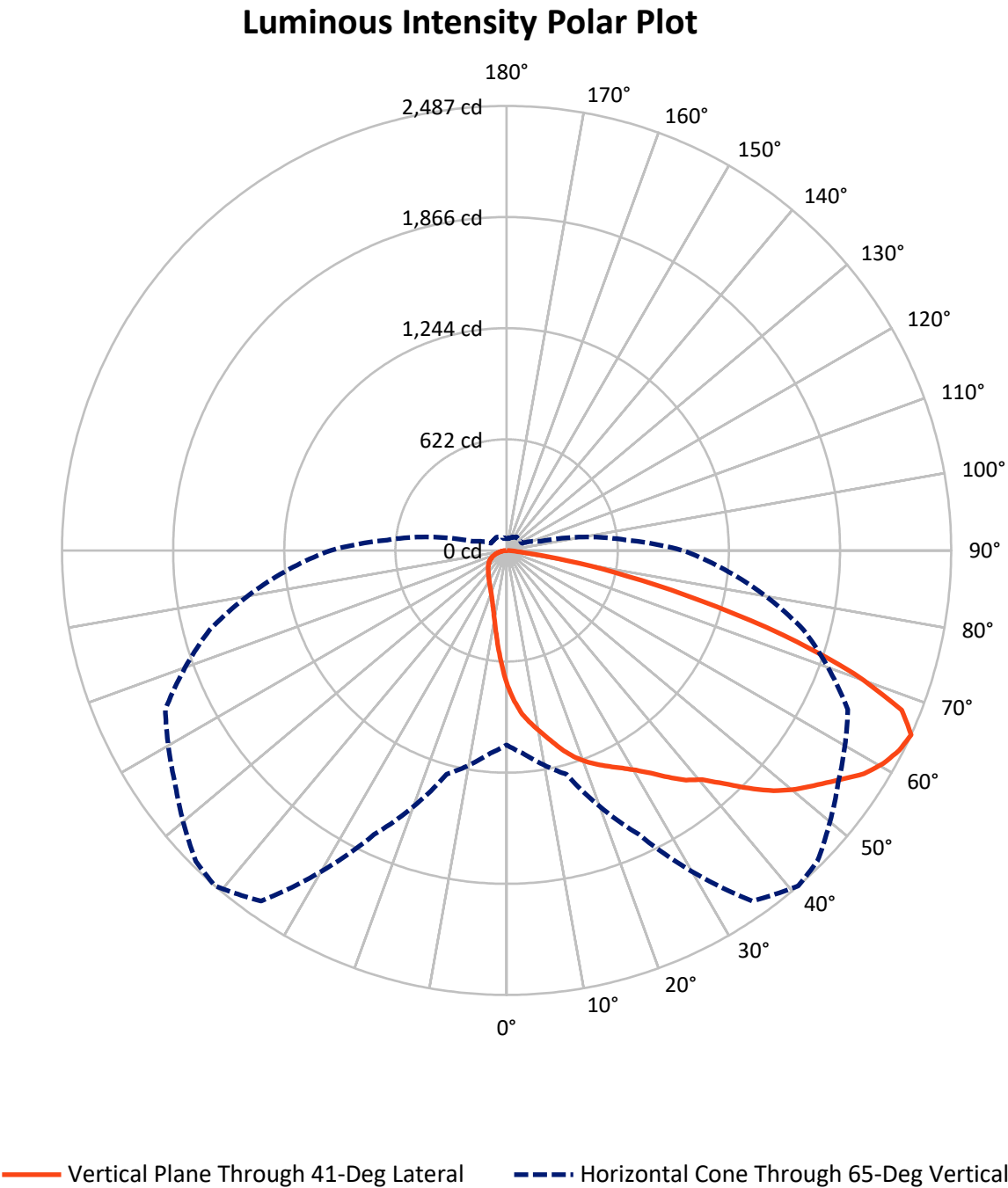


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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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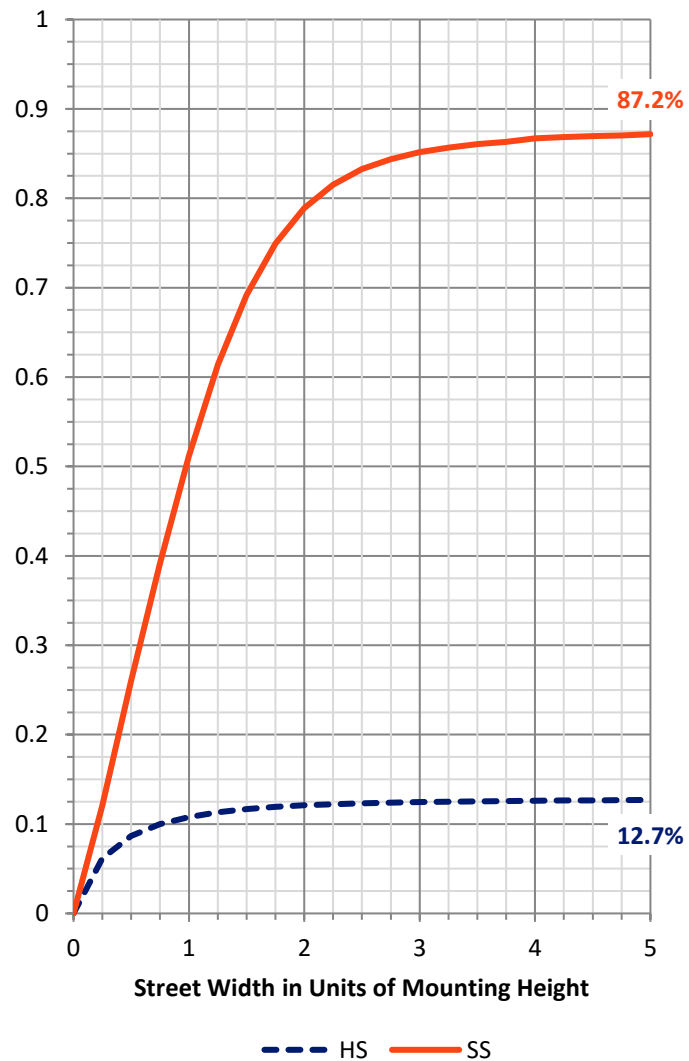
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.4	0.0	571.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3879.6	0.0	3879.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	4451.0	0.0	4451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.6
10°-20°	211.9	4.8
20°-30°	364.5	8.2
30°-40°	552.9	12.4
40°-50°	810.0	18.2
50°-60°	1022.8	23.0
60°-70°	959.1	21.5
70°-80°	427.5	9.6
80°-90°	31.7	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°	4451.0	100.0
0°-180°	4451.0	100.0

Coefficient of Utilization



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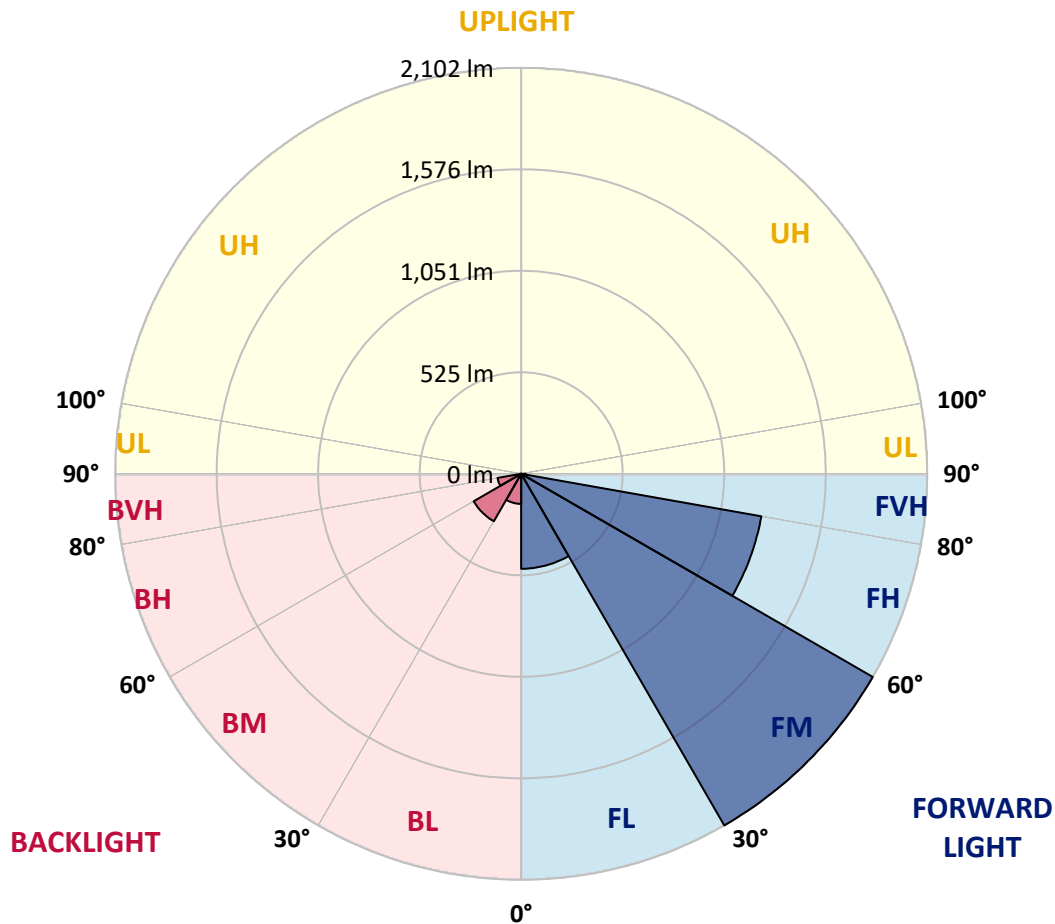
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.6	11.0			
FM	(30°-60°)	2101.9	47.2			
FH	(60°-80°)	1262.4	28.4			G1/1800
FVH	(80°-90°)	23.6	0.5			G1/100
BL	(0°-30°)	155.5	3.5	B1/500		
BM	(30°-60°)	283.8	6.4	B1/1000		
BH	(60°-80°)	124.1	2.8	B1/500		G1/500
BVH	(80°-90°)	8.0	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°	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4
2.5°	874.8	872.0	870.1	859.8	859.8	845.7	846.7	833.5	817.6	792.2	765.0
5°	957.4	953.7	949.0	938.6	934.9	920.8	918.9	900.2	872.9	828.8	780.0
7.5°	1029.7	1025.9	1019.4	1004.4	994.0	977.1	972.4	948.0	918.0	863.6	795.0
10°	1095.4	1092.6	1084.1	1065.4	1051.3	1030.6	1022.2	989.3	951.8	891.7	807.2
12.5°	1162.0	1158.3	1147.0	1131.1	1114.2	1089.8	1079.4	1037.2	989.3	922.7	825.1
15°	1224.0	1218.4	1209.9	1193.0	1178.0	1154.5	1143.3	1093.5	1035.3	957.4	848.5
17.5°	1264.4	1259.7	1252.2	1242.8	1230.6	1212.7	1201.5	1152.7	1081.3	991.2	872.9
20°	1288.8	1286.9	1284.1	1278.4	1272.8	1260.6	1252.2	1206.2	1131.1	1024.1	896.4
22.5°	1307.5	1305.7	1304.7	1304.7	1305.7	1301.0	1295.3	1255.9	1178.9	1058.8	918.0
25°	1336.6	1335.7	1333.8	1331.9	1338.5	1339.4	1337.6	1310.4	1239.0	1104.8	945.2
27.5°	1377.0	1374.2	1370.4	1368.5	1375.1	1379.8	1383.6	1364.8	1302.8	1151.7	976.2
30°	1438.9	1430.5	1421.1	1414.5	1419.2	1426.7	1435.2	1423.9	1368.5	1209.9	1008.1
32.5°	1512.2	1501.8	1480.2	1468.0	1480.2	1485.9	1492.4	1486.8	1437.1	1272.8	1040.0
35°	1601.3	1589.1	1566.6	1548.8	1570.4	1558.2	1555.3	1549.7	1501.8	1334.8	1075.7
37.5°	1749.6	1731.8	1696.1	1656.7	1656.7	1630.4	1620.1	1603.2	1560.0	1390.1	1110.4
40°	1921.4	1897.9	1852.0	1793.8	1740.3	1685.8	1679.2	1667.0	1628.6	1454.0	1149.8
42.5°	2110.1	2065.0	2001.2	1930.8	1844.4	1782.5	1767.5	1732.7	1695.2	1518.7	1189.3
45°	2319.4	2225.5	2132.6	2096.9	1954.3	1897.9	1869.8	1806.9	1764.7	1586.3	1230.6
47.5°	2353.2	2280.0	2218.0	2212.4	2056.6	2009.6	1977.7	1887.6	1839.7	1658.6	1273.7
50°	2334.4	2290.3	2296.9	2274.3	2131.7	2100.7	2076.3	1974.0	1913.9	1728.0	1313.2
52.5°	2255.6	2280.0	2317.5	2276.2	2203.0	2177.7	2165.5	2066.9	1983.4	1791.9	1348.8
55°	2161.7	2178.6	2259.3	2310.0	2285.6	2263.1	2251.8	2174.8	2051.9	1845.4	1381.7
57.5°	2024.7	2017.2	2106.3	2304.4	2372.0	2358.8	2346.6	2280.9	2115.7	1883.9	1402.3
60°	1819.1	1803.1	1915.8	2191.7	2400.1	2420.8	2415.1	2351.3	2164.5	1882.9	1393.9
62.5°	1463.4	1502.8	1658.6	2007.8	2412.3	2464.9	2454.6	2356.9	2180.5	1828.5	1340.4
65°	1087.9	1144.2	1297.2	1754.3	2395.4	2487.4	2459.3	2265.0	2106.3	1720.5	1223.1
67.5°	783.8	833.5	945.2	1443.6	2233.0	2384.2	2351.3	2114.8	1935.5	1567.5	1060.7
70°	536.0	571.6	647.7	1051.3	1906.4	2061.3	2040.6	1890.4	1666.1	1385.4	861.7
72.5°	378.3	393.3	442.1	693.7	1448.3	1617.3	1592.9	1555.3	1338.5	1151.7	670.2
75°	283.5	292.9	319.1	448.7	977.1	1120.7	1098.2	1119.8	999.7	872.0	488.1
77.5°	107.0	116.4	181.2	286.3	578.2	688.0	665.5	678.6	555.7	440.2	243.1
80°	29.1	31.0	60.1	136.1	262.8	342.6	311.6	267.5	206.5	202.7	128.6
82.5°	12.2	14.1	27.2	73.2	93.9	93.9	78.8	97.6	78.8	94.8	62.0
85°	4.7	5.6	6.6	18.8	12.2	13.1	14.1	18.8	16.0	19.7	14.1
87.5°	0.0	0.0	0.0	0.9	0.9	1.9	0.9	1.9	2.8	2.8	2.8
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°	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4	758.4
2.5°	753.7	743.4	728.4	704.0	678.6	664.6	646.7	643.9	625.1	623.3	615.8
5°	758.4	736.8	698.4	651.4	605.4	569.8	543.5	529.4	502.2	502.2	494.7
7.5°	762.2	728.4	666.4	597.0	534.1	486.2	450.6	435.5	411.1	409.3	403.6
10°	763.1	718.1	631.7	541.6	464.6	415.8	381.1	364.2	342.6	340.7	337.0
12.5°	770.6	712.4	600.7	493.7	414.9	362.3	328.5	314.4	297.6	295.7	291.9
15°	782.8	712.4	574.5	453.4	370.8	322.0	292.9	279.7	267.5	265.6	263.8
17.5°	795.0	710.6	548.2	415.8	334.2	290.0	264.7	254.4	245.0	244.0	242.2
20°	806.3	709.6	521.9	383.9	306.0	263.8	244.0	234.7	227.2	227.2	226.2
22.5°	817.6	707.7	496.5	353.9	281.6	244.0	227.2	216.8	211.2	211.2	210.3
25°	834.5	707.7	473.1	328.5	261.9	229.0	212.1	204.6	199.9	199.0	199.0
27.5°	854.2	713.4	452.4	306.0	245.0	214.0	200.9	193.4	187.7	185.9	186.8
30°	875.8	718.1	433.7	286.3	229.0	202.7	188.7	181.2	175.5	173.6	174.6
32.5°	897.3	723.7	416.8	268.5	213.1	192.4	178.3	169.9	164.3	163.3	163.3
35°	920.8	729.3	399.9	253.4	199.9	182.1	169.0	159.6	155.8	153.9	154.9
37.5°	944.3	738.7	383.9	239.4	190.5	172.7	160.5	151.1	148.3	147.4	147.4
40°	972.4	752.8	377.3	230.0	182.1	164.3	153.9	144.6	141.7	141.7	141.7
42.5°	995.9	764.1	371.7	219.6	175.5	156.8	147.4	139.9	138.0	137.0	138.0
45°	1019.4	774.4	364.2	210.3	167.1	149.2	141.7	134.2	132.3	132.3	132.3
47.5°	1042.8	780.0	353.9	200.9	159.6	142.7	136.1	129.5	127.7	127.7	127.7
50°	1061.6	784.7	338.9	190.5	151.1	137.0	130.5	123.9	122.0	122.0	122.0
52.5°	1080.4	785.6	322.9	178.3	142.7	130.5	124.8	118.3	116.4	115.5	115.5
55°	1097.3	784.7	304.1	164.3	133.3	123.0	118.3	112.6	108.9	105.1	107.0
57.5°	1109.5	783.8	282.5	150.2	123.9	115.5	113.6	106.1	98.6	89.2	91.0
60°	1104.8	773.4	259.1	132.3	113.6	107.9	107.9	97.6	84.5	79.8	80.7
62.5°	1074.8	744.3	234.7	113.6	103.3	100.4	99.5	88.2	77.9	73.2	74.2
65°	984.6	671.1	199.0	96.7	92.9	92.0	92.0	81.7	72.3	66.6	67.6
67.5°	847.6	563.2	162.4	81.7	82.6	84.5	84.5	75.1	65.7	60.1	61.0
70°	679.6	440.2	129.5	70.4	71.3	74.2	76.0	67.6	59.1	53.5	53.5
72.5°	511.6	334.2	104.2	59.1	63.8	63.8	66.6	60.1	51.6	46.0	46.9
75°	370.8	239.4	82.6	49.7	55.4	54.4	54.4	50.7	44.1	40.4	40.4
77.5°	175.5	125.8	65.7	35.7	43.2	42.2	43.2	40.4	37.5	33.8	34.7
80°	86.4	62.0	42.2	25.3	30.0	31.0	33.8	31.9	31.0	28.2	28.2
82.5°	41.3	24.4	19.7	17.8	20.7	21.6	23.5	23.5	24.4	22.5	22.5
85°	11.3	6.6	8.4	11.3	13.1	14.1	16.0	16.9	16.9	16.0	16.9
87.5°	2.8	2.8	3.8	5.6	6.6	7.5	8.4	8.4	3.8	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)