

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: P798611

Luminaire Tested: **ARCH1-20-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

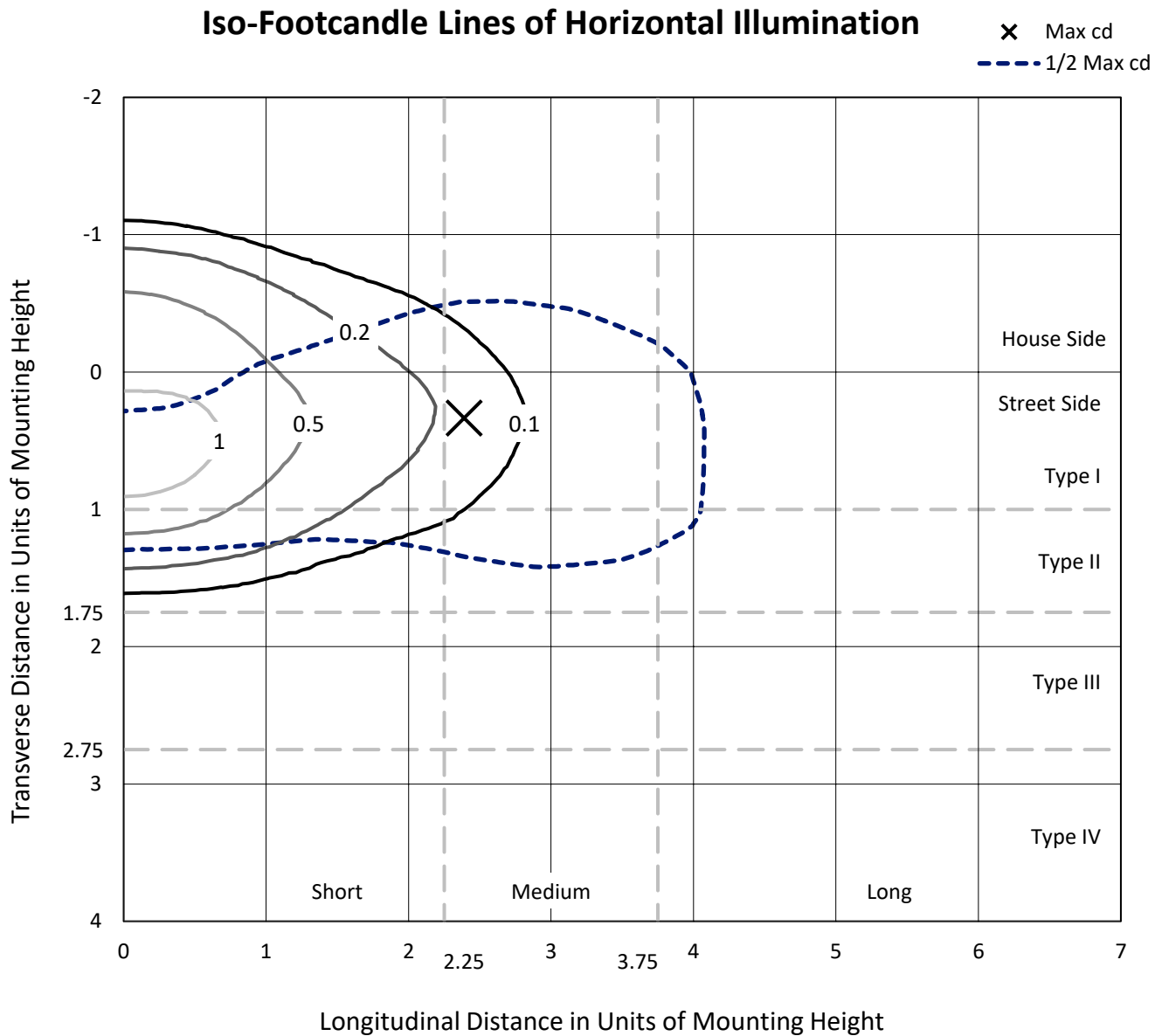
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.5
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

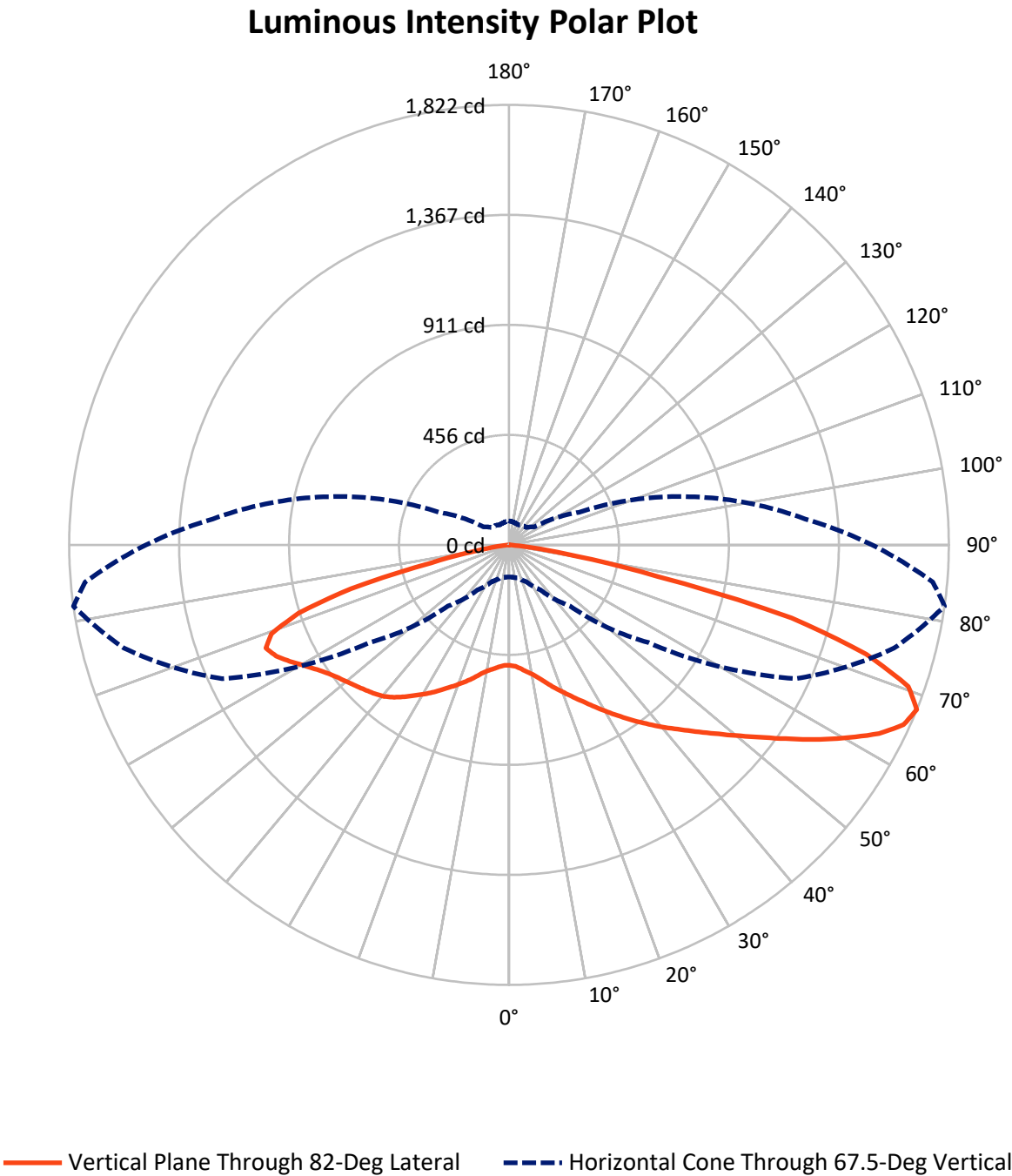


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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Medium - N/A

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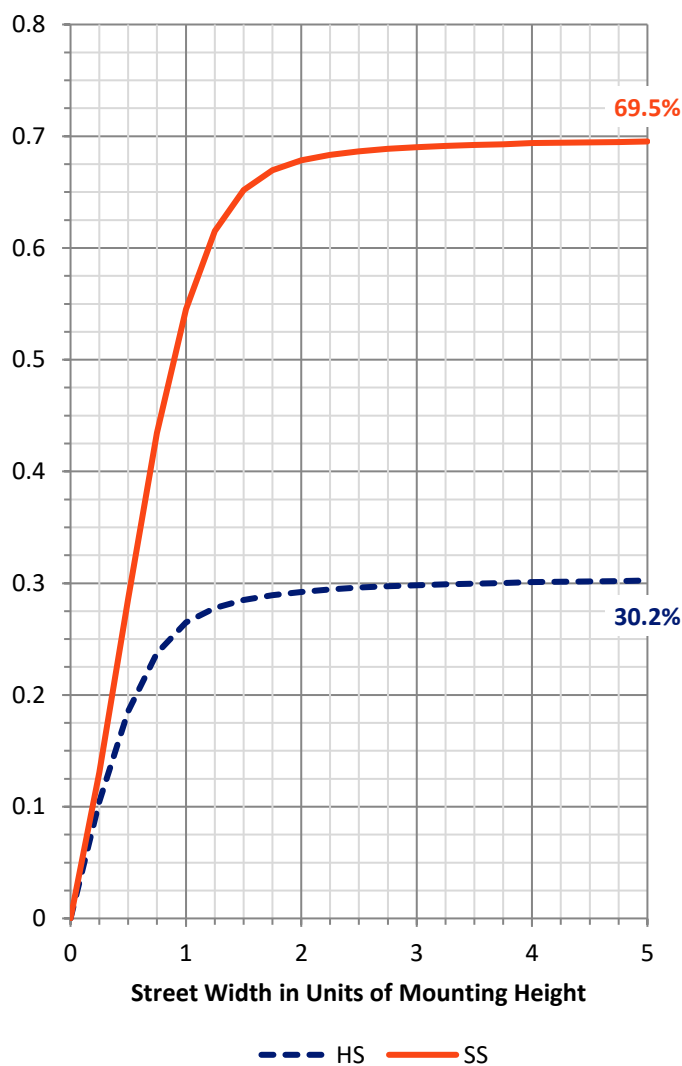
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.1	0.0	1057.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2413.9	0.0	2413.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	3471.0	0.0	3471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.5
10°-20°	185.7	5.4
20°-30°	373.3	10.8
30°-40°	586.4	16.9
40°-50°	714.3	20.6
50°-60°	675.0	19.4
60°-70°	557.4	16.1
70°-80°	303.5	8.7
80°-90°	23.9	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°	3471.0	100.0
0°-180°	3471.0	100.0

Coefficient of Utilization



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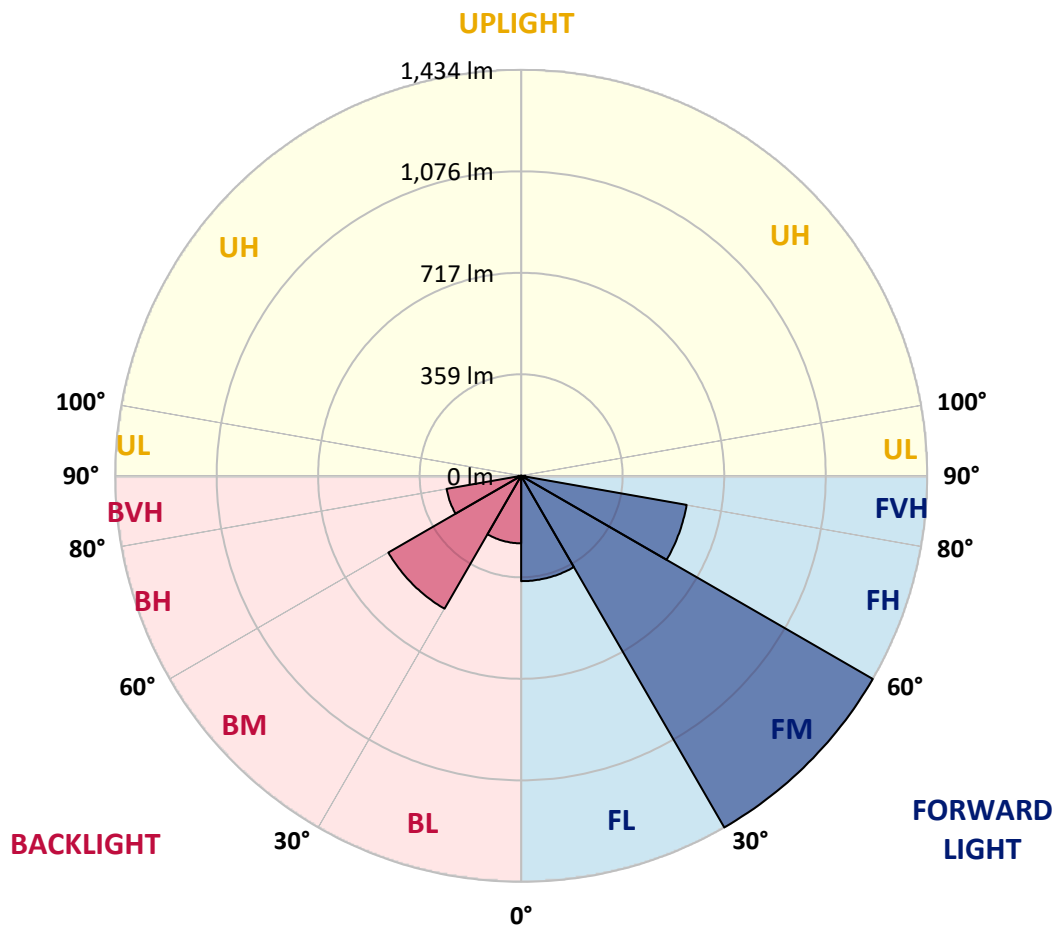
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.2	10.7			
FM	(30°-60°)	1434.0	41.3			
FH	(60°-80°)	593.3	17.1			G0/660
FVH	(80°-90°)	14.4	0.4			G1/100
BL	(0°-30°)	238.4	6.9	B1/500		
BM	(30°-60°)	541.7	15.6	B1/1000		
BH	(60°-80°)	267.5	7.7	B1/500		G1/500
BVH	(80°-90°)	9.5	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	521.6	521.6	525.7	525.7	522.1	516.6	515.1	509.0	503.5	503.5	504.0
5°	571.5	571.0	574.0	570.0	561.4	550.4	542.8	529.7	518.6	515.1	514.6
7.5°	632.5	632.0	633.5	627.0	610.8	592.7	577.6	556.4	538.3	530.7	528.7
10°	700.6	700.0	698.5	687.4	665.8	637.6	614.9	585.6	558.4	546.3	543.8
12.5°	778.7	777.7	774.1	758.0	728.3	692.0	659.2	621.4	585.1	568.5	563.0
15°	865.9	864.4	857.8	838.1	798.3	752.5	710.1	661.7	617.4	595.7	588.2
17.5°	957.6	957.6	947.5	918.3	873.9	817.0	764.6	703.1	651.2	624.4	615.4
20°	1050.8	1050.3	1037.7	1002.4	950.0	884.5	818.0	750.4	685.9	653.7	642.6
22.5°	1149.1	1148.1	1132.5	1092.2	1029.7	955.6	878.0	797.3	724.2	685.4	671.3
25°	1262.0	1260.5	1241.3	1191.9	1117.9	1034.2	945.5	852.3	768.1	720.7	704.1
27.5°	1382.0	1379.9	1357.3	1299.8	1218.7	1117.9	1020.1	915.8	816.5	760.0	741.4
30°	1488.8	1487.3	1462.6	1403.6	1310.4	1201.0	1091.1	979.3	867.4	801.9	778.7
32.5°	1569.4	1569.4	1547.3	1489.3	1392.5	1280.6	1162.7	1039.2	920.3	846.7	819.5
35°	1618.3	1619.8	1600.7	1554.3	1463.1	1355.7	1236.8	1109.8	976.7	894.6	865.4
37.5°	1625.4	1630.4	1619.3	1588.1	1512.0	1418.2	1309.4	1177.8	1035.2	943.0	910.2
40°	1592.6	1596.2	1596.7	1584.6	1532.1	1463.1	1373.4	1249.9	1097.2	993.9	956.1
42.5°	1527.1	1529.6	1534.2	1537.7	1517.5	1482.8	1422.3	1316.9	1163.2	1045.8	1001.4
45°	1442.4	1441.9	1449.5	1464.6	1463.6	1471.7	1449.5	1377.9	1231.8	1104.8	1051.8
47.5°	1315.9	1313.4	1340.1	1374.4	1391.5	1429.3	1450.0	1425.8	1306.4	1169.8	1109.3
50°	1117.9	1115.3	1173.8	1254.4	1304.8	1362.3	1422.3	1454.5	1384.5	1242.9	1171.8
52.5°	877.0	874.4	948.5	1089.6	1199.5	1283.2	1366.3	1461.1	1458.6	1324.5	1242.3
55°	652.2	650.2	722.2	874.9	1052.8	1191.4	1297.8	1443.9	1528.1	1418.2	1328.0
57.5°	459.6	458.6	521.1	647.6	864.4	1079.6	1231.8	1410.7	1592.1	1520.0	1424.8
60°	322.6	321.0	366.4	464.2	653.7	910.7	1166.2	1366.3	1640.0	1620.3	1527.6
62.5°	217.2	216.2	248.5	330.1	464.2	701.1	1067.0	1336.6	1667.2	1721.1	1631.4
65°	164.8	164.3	178.9	223.8	328.6	503.5	909.2	1333.1	1670.7	1796.7	1719.6
67.5°	133.1	133.6	141.6	167.3	227.3	357.8	705.1	1310.9	1652.1	1822.4	1762.5
70°	108.9	108.9	112.4	129.5	167.8	241.4	492.4	1210.1	1600.2	1755.4	1711.6
72.5°	83.2	83.7	94.8	104.8	126.5	169.3	315.5	1001.4	1477.7	1547.8	1514.5
75°	66.0	65.5	72.1	86.2	98.3	121.0	193.5	718.2	1257.5	1209.6	1188.4
77.5°	47.4	46.9	51.9	64.0	74.6	85.7	115.4	362.4	683.9	628.5	612.9
80°	32.3	31.2	35.8	44.4	49.4	50.4	56.4	139.1	298.4	281.2	277.7
82.5°	16.6	16.6	19.2	25.2	25.7	26.2	25.2	44.9	98.8	92.2	88.2
85°	6.6	6.6	7.1	8.6	8.6	9.1	9.1	11.6	10.6	10.1	9.6
87.5°	0.5	0.5	1.0	1.0	1.5	1.5	1.5	2.0	2.5	2.5	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°	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0	499.0
2.5°	503.0	501.0	494.4	492.9	491.9	490.4	490.9	487.4	485.9	486.4	484.3
5°	512.1	508.5	500.5	496.9	495.9	494.4	495.9	493.4	490.9	491.9	490.9
7.5°	524.7	519.6	509.5	506.0	505.5	504.0	506.0	504.0	502.0	503.0	501.0
10°	537.8	531.2	520.1	516.6	516.6	516.1	518.1	515.1	513.1	513.6	512.6
12.5°	556.9	548.3	536.3	533.2	531.7	533.2	533.7	529.7	526.2	526.7	525.2
15°	580.1	570.5	557.4	552.9	551.9	551.4	549.4	544.3	539.8	539.3	537.8
17.5°	605.3	593.2	577.6	573.0	568.5	567.0	562.0	555.4	548.3	548.3	546.3
20°	629.5	615.9	597.2	590.7	584.1	578.1	569.5	558.9	549.9	548.3	546.3
22.5°	655.7	639.6	617.9	608.3	596.7	584.6	570.0	555.9	544.3	541.8	540.3
25°	684.9	664.8	639.1	625.0	606.3	587.7	566.0	547.8	534.2	530.2	529.2
27.5°	717.2	693.0	661.7	641.1	613.9	584.6	556.9	535.2	518.6	513.6	512.1
30°	749.9	721.2	682.4	652.2	613.9	575.1	540.3	515.1	495.9	488.9	487.9
32.5°	782.7	750.4	701.1	658.2	607.8	558.9	518.6	488.9	467.2	458.6	460.7
35°	822.0	782.7	718.2	660.7	597.7	539.3	493.9	459.1	437.0	429.4	430.9
37.5°	862.8	815.0	731.8	658.7	583.6	517.1	466.2	432.4	404.7	391.6	393.1
40°	898.1	844.2	741.4	651.7	565.5	491.9	439.0	394.6	356.3	343.7	342.2
42.5°	931.4	865.9	746.4	641.1	544.8	462.7	400.2	343.2	304.9	289.3	289.8
45°	966.2	887.0	744.4	627.0	519.1	428.4	350.3	292.8	259.1	244.9	245.4
47.5°	1006.0	909.7	742.4	611.8	487.9	384.0	302.4	248.5	219.2	209.2	208.1
50°	1048.3	934.9	739.9	593.2	453.1	334.7	255.0	207.1	182.4	175.9	174.4
52.5°	1096.2	962.1	738.4	571.0	411.3	282.2	212.7	170.9	154.2	149.7	149.2
55°	1153.6	993.9	740.4	544.3	360.9	232.8	176.9	147.2	136.1	133.6	133.1
57.5°	1223.7	1034.7	746.4	513.1	307.9	190.0	150.7	132.6	125.5	123.5	123.5
60°	1299.8	1081.1	757.5	477.8	255.0	156.7	133.6	121.0	117.9	120.5	120.5
62.5°	1382.0	1135.5	777.2	434.9	205.6	132.6	120.0	111.4	109.4	114.4	114.9
65°	1458.1	1188.4	789.8	383.5	163.3	114.9	109.4	101.8	102.8	107.9	107.4
67.5°	1504.9	1232.3	772.1	319.0	129.5	101.8	98.3	91.7	94.2	98.3	98.8
70°	1476.2	1207.6	684.9	240.9	101.3	88.7	86.2	82.2	84.2	89.2	91.2
72.5°	1335.6	1081.6	532.7	162.8	81.6	74.6	75.6	73.6	76.1	80.6	85.2
75°	1084.1	817.5	357.3	104.3	64.5	63.5	65.0	63.5	64.5	69.0	71.6
77.5°	566.0	398.7	177.9	65.0	47.9	49.4	51.9	52.4	55.4	56.4	57.5
80°	264.1	179.4	74.1	36.3	31.8	34.8	39.8	40.3	41.3	42.8	43.3
82.5°	86.2	53.9	34.3	19.7	18.1	19.7	25.7	30.7	31.2	34.3	34.3
85°	9.1	5.5	7.6	8.1	7.1	8.6	11.6	11.1	5.0	3.0	3.0
87.5°	2.5	2.0	2.5	2.5	2.0	2.0	1.5	0.5	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)