

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: P798595

Luminaire Tested: **ARCH1-20-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798595
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: ARCH1-20-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349 lumens
Efficiency: N/A
Efficacy: 142.5 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

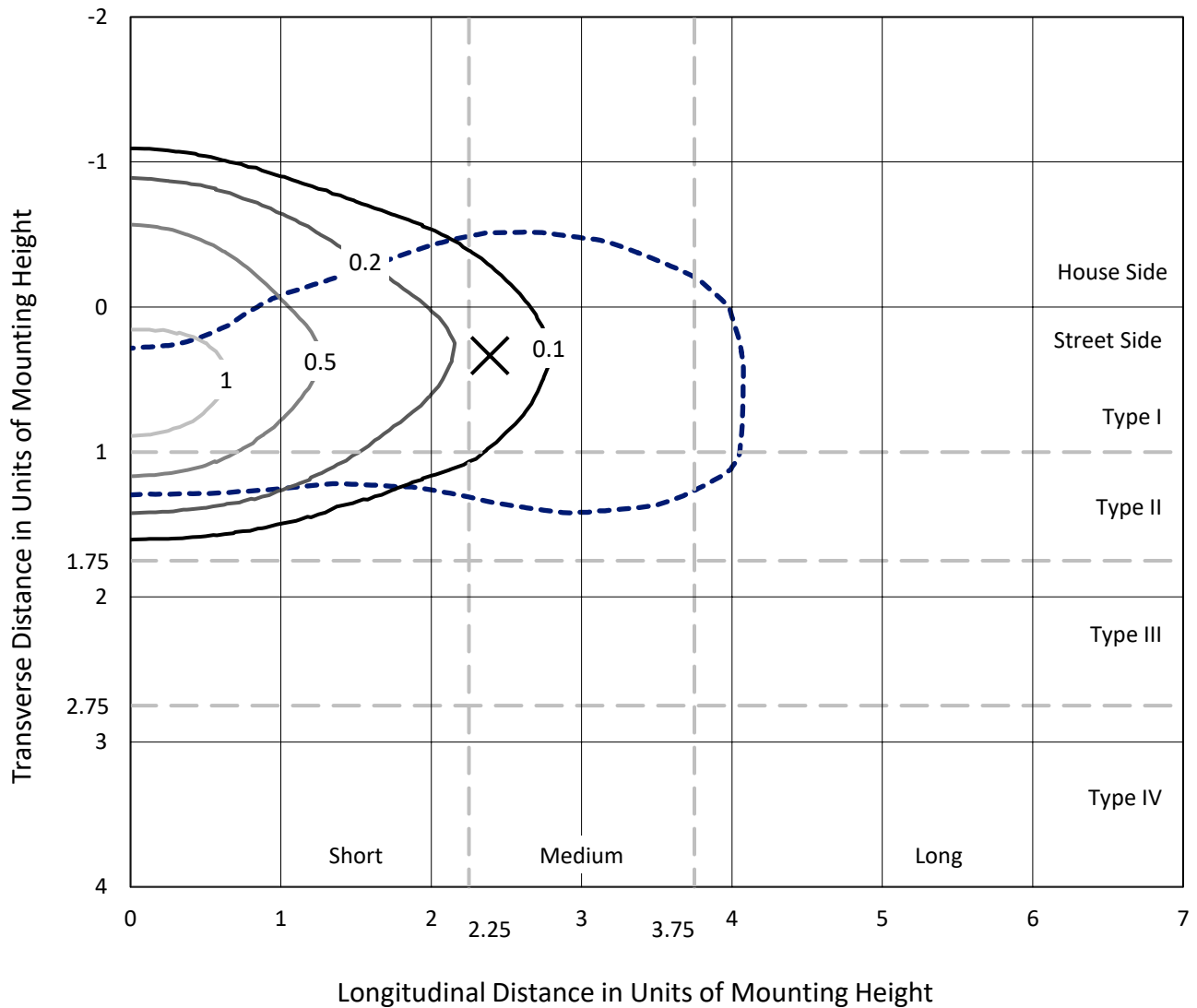
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

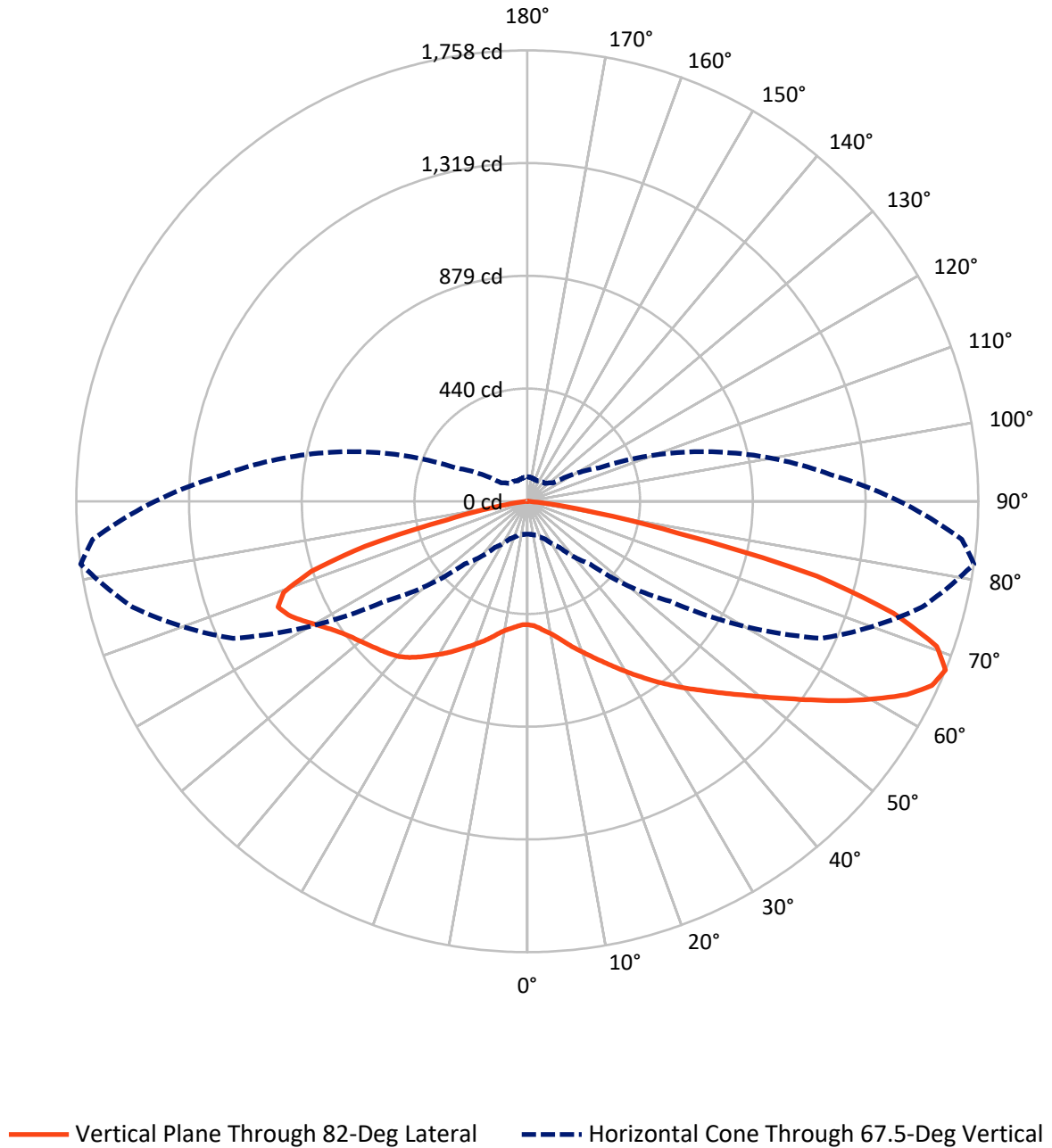
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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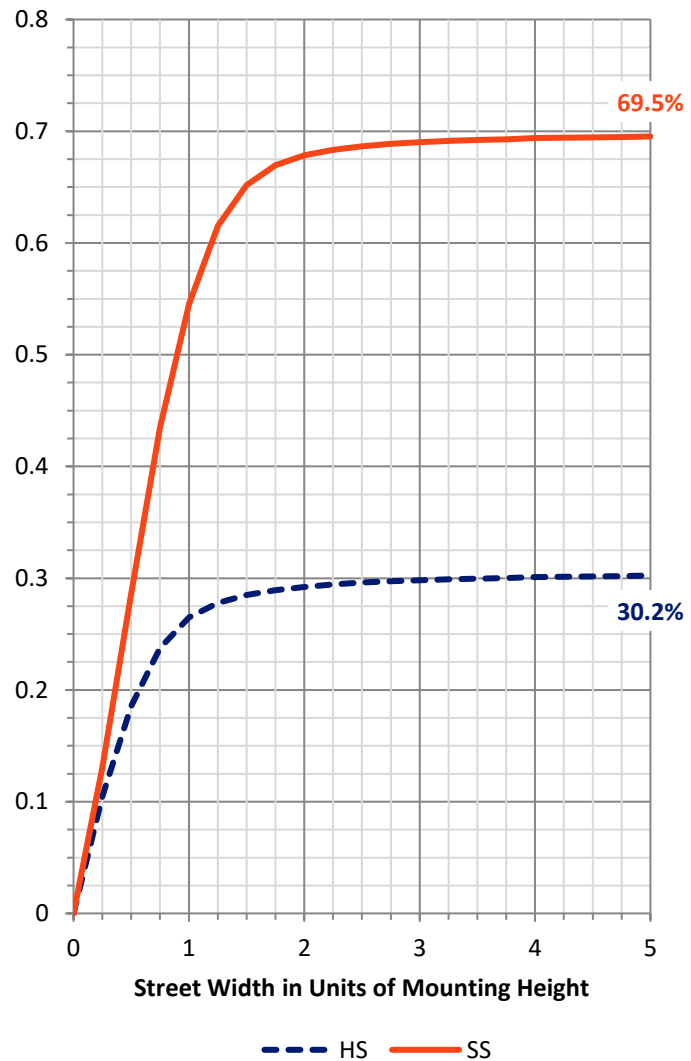
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1019.9	0.0	1019.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2329.1	0.0	2329.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	3349.0	0.0	3349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.5
10°-20°	179.2	5.4
20°-30°	360.2	10.8
30°-40°	565.8	16.9
40°-50°	689.2	20.6
50°-60°	651.2	19.4
60°-70°	537.8	16.1
70°-80°	292.8	8.7
80°-90°	23.0	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°	3349.0	100.0
0°-180°	3349.0	100.0

Coefficient of Utilization



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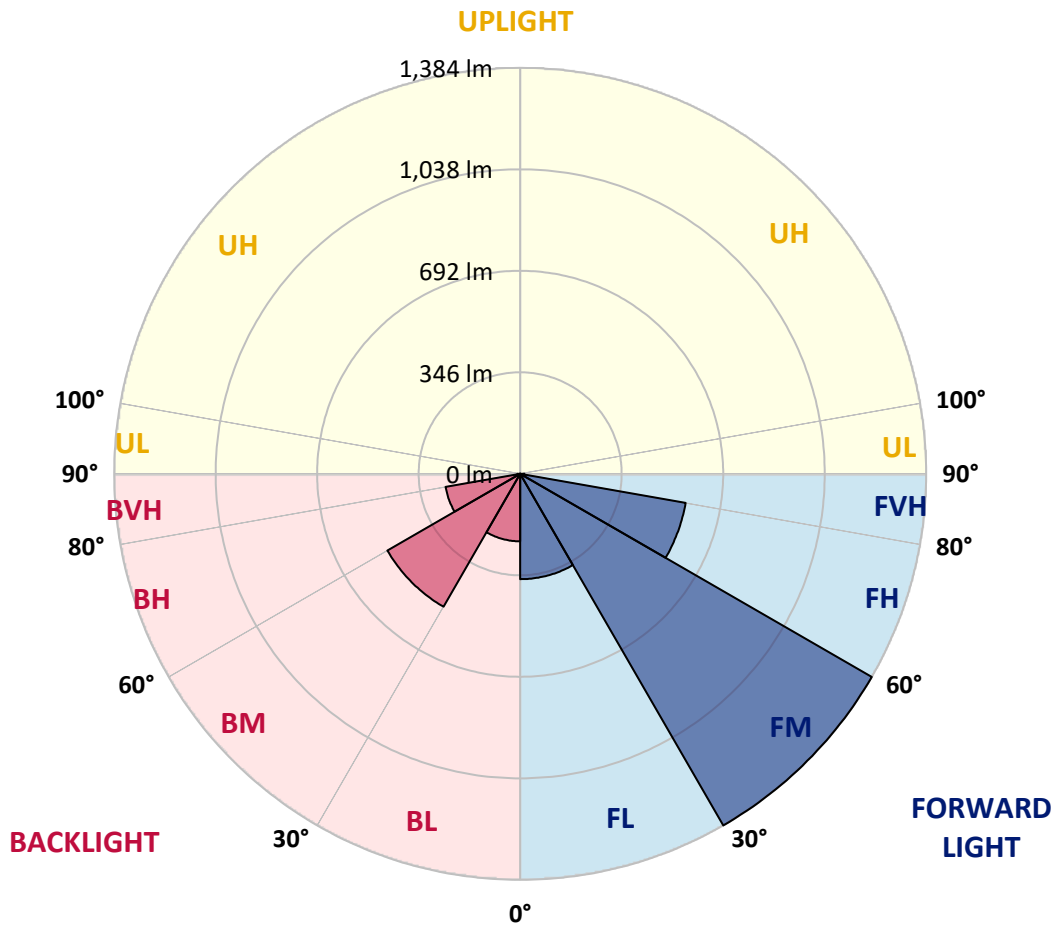
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.1	10.7			
FM (30°-60°)	1383.6	41.3			
FH (60°-80°)	572.5	17.1			G0/660
FVH (80°-90°)	13.9	0.4			G1/100
BL (0°-30°)	230.0	6.9	B1/500		
BM (30°-60°)	522.6	15.6	B1/1000		
BH (60°-80°)	258.1	7.7	B1/500		G1/500
BVH (80°-90°)	9.1	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°	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4
2.5°	503.3	503.3	507.2	507.2	503.8	498.4	497.0	491.1	485.8	485.8	486.3
5°	551.4	551.0	553.9	550.0	541.7	531.0	523.7	511.1	500.4	497.0	496.5
7.5°	610.3	609.8	611.3	604.9	589.4	571.9	557.3	536.9	519.3	512.1	510.1
10°	675.9	675.4	674.0	663.3	642.4	615.1	593.3	565.1	538.8	527.1	524.7
12.5°	751.3	750.3	746.9	731.4	702.7	667.7	636.1	599.6	564.6	548.5	543.2
15°	835.4	834.0	827.6	808.7	770.3	726.0	685.2	638.5	595.7	574.8	567.5
17.5°	923.9	923.9	914.2	886.0	843.2	788.3	737.7	678.4	628.3	602.5	593.7
20°	1013.9	1013.4	1001.3	967.2	916.6	853.4	789.2	724.1	661.8	630.7	620.0
22.5°	1108.7	1107.7	1092.7	1053.8	993.5	922.0	847.1	769.3	698.8	661.3	647.7
25°	1217.6	1216.2	1197.7	1150.1	1078.6	997.8	912.3	822.3	741.1	695.4	679.3
27.5°	1333.4	1331.4	1309.6	1254.1	1175.8	1078.6	984.2	883.6	787.8	733.3	715.3
30°	1436.5	1435.0	1411.2	1354.3	1264.3	1158.8	1052.8	944.8	836.9	773.7	751.3
32.5°	1514.3	1514.3	1492.9	1437.0	1343.6	1235.6	1121.8	1002.7	887.9	817.0	790.7
35°	1561.4	1562.9	1544.4	1499.7	1411.7	1308.1	1193.3	1070.8	942.4	863.1	834.9
37.5°	1568.3	1573.1	1562.4	1532.3	1458.8	1368.4	1263.4	1136.4	998.8	909.8	878.2
40°	1536.6	1540.0	1540.5	1528.9	1478.3	1411.7	1325.1	1206.0	1058.6	958.9	922.5
42.5°	1473.4	1475.9	1480.2	1483.6	1464.2	1430.6	1372.3	1270.6	1122.3	1009.0	966.2
45°	1391.7	1391.2	1398.5	1413.1	1412.2	1419.9	1398.5	1329.5	1188.5	1065.9	1014.9
47.5°	1269.7	1267.2	1293.0	1326.1	1342.6	1379.1	1399.0	1375.7	1260.4	1128.7	1070.3
50°	1078.6	1076.1	1132.5	1210.4	1259.0	1314.4	1372.3	1403.4	1335.8	1199.2	1130.6
52.5°	846.1	843.7	915.2	1051.3	1157.3	1238.1	1318.3	1409.7	1407.3	1277.9	1198.7
55°	629.2	627.3	696.8	844.2	1015.8	1149.6	1252.2	1393.2	1474.4	1368.4	1281.3
57.5°	443.5	442.5	502.8	624.9	834.0	1041.6	1188.5	1361.1	1536.2	1466.6	1374.7
60°	311.2	309.8	353.5	447.9	630.7	878.7	1125.3	1318.3	1582.4	1563.4	1473.9
62.5°	209.6	208.6	239.7	318.5	447.9	676.4	1029.5	1289.6	1608.6	1660.6	1574.1
65°	159.0	158.5	172.6	215.9	317.1	485.8	877.2	1286.2	1612.0	1733.6	1659.2
67.5°	128.4	128.9	136.6	161.4	219.3	345.3	680.3	1264.8	1594.0	1758.4	1700.5
70°	105.0	105.0	108.4	125.0	161.9	232.9	475.1	1167.6	1543.9	1693.7	1651.4
72.5°	80.2	80.7	91.4	101.1	122.1	163.4	304.4	966.2	1425.8	1493.4	1461.3
75°	63.7	63.2	69.5	83.2	94.8	116.7	186.7	692.9	1213.3	1167.1	1146.6
77.5°	45.7	45.2	50.1	61.8	72.0	82.7	111.4	349.6	659.9	606.4	591.3
80°	31.1	30.1	34.5	42.8	47.7	48.6	54.5	134.2	287.9	271.3	267.9
82.5°	16.0	16.0	18.5	24.3	24.8	25.3	24.3	43.3	95.3	89.0	85.1
85°	6.3	6.3	6.8	8.3	8.3	8.8	8.8	11.2	10.2	9.7	9.2
87.5°	0.5	0.5	1.0	1.0	1.5	1.5	1.5	1.9	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°	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4	481.4
2.5°	485.3	483.4	477.0	475.6	474.6	473.2	473.6	470.2	468.8	469.3	467.3
5°	494.1	490.7	482.9	479.5	478.5	477.0	478.5	476.1	473.6	474.6	473.6
7.5°	506.2	501.4	491.6	488.2	487.7	486.3	488.2	486.3	484.3	485.3	483.4
10°	518.9	512.5	501.8	498.4	498.4	498.0	499.9	497.0	495.0	495.5	494.5
12.5°	537.3	529.1	517.4	514.5	513.0	514.5	515.0	511.1	507.7	508.2	506.7
15°	559.7	550.5	537.8	533.4	532.5	532.0	530.0	525.2	520.8	520.3	518.9
17.5°	584.0	572.4	557.3	552.9	548.5	547.1	542.2	535.9	529.1	529.1	527.1
20°	607.4	594.2	576.2	569.9	563.6	557.8	549.5	539.3	530.5	529.1	527.1
22.5°	632.7	617.1	596.2	586.9	575.8	564.1	550.0	536.4	525.2	522.8	521.3
25°	660.9	641.4	616.6	603.0	585.0	567.0	546.1	528.6	515.5	511.6	510.6
27.5°	692.0	668.6	638.5	618.5	592.3	564.1	537.3	516.4	500.4	495.5	494.1
30°	723.6	695.9	658.4	629.2	592.3	554.8	521.3	497.0	478.5	471.7	470.7
32.5°	755.2	724.1	676.4	635.1	586.5	539.3	500.4	471.7	450.8	442.5	444.5
35°	793.1	755.2	692.9	637.5	576.7	520.3	476.6	443.0	421.6	414.3	415.8
37.5°	832.5	786.3	706.1	635.6	563.1	498.9	449.8	417.2	390.5	377.8	379.3
40°	866.6	814.5	715.3	628.8	545.6	474.6	423.5	380.8	343.8	331.6	330.2
42.5°	898.6	835.4	720.2	618.5	525.7	446.4	386.1	331.2	294.2	279.1	279.6
45°	932.2	855.9	718.2	604.9	500.9	413.3	338.0	282.5	249.9	236.3	236.8
47.5°	970.6	877.7	716.3	590.3	470.7	370.5	291.8	239.7	211.5	201.8	200.8
50°	1011.5	902.0	713.9	572.4	437.2	322.9	246.1	199.9	176.0	169.7	168.3
52.5°	1057.7	928.3	712.4	551.0	396.8	272.3	205.2	164.8	148.8	144.4	143.9
55°	1113.1	958.9	714.3	525.2	348.2	224.7	170.7	142.0	131.3	128.9	128.4
57.5°	1180.7	998.3	720.2	495.0	297.1	183.3	145.4	127.9	121.1	119.1	119.1
60°	1254.1	1043.1	730.9	461.0	246.1	151.2	128.9	116.7	113.8	116.2	116.2
62.5°	1333.4	1095.6	749.8	419.7	198.4	127.9	115.7	107.5	105.5	110.4	110.9
65°	1406.8	1146.6	762.0	370.1	157.6	110.9	105.5	98.2	99.2	104.1	103.6
67.5°	1452.0	1189.0	745.0	307.8	125.0	98.2	94.8	88.5	90.9	94.8	95.3
70°	1424.3	1165.1	660.9	232.4	97.7	85.6	83.2	79.3	81.2	86.1	88.0
72.5°	1288.6	1043.6	514.0	157.1	78.8	72.0	72.9	71.0	73.4	77.8	82.2
75°	1046.0	788.7	344.8	100.7	62.2	61.3	62.7	61.3	62.2	66.6	69.1
77.5°	546.1	384.6	171.7	62.7	46.2	47.7	50.1	50.6	53.5	54.5	55.4
80°	254.8	173.1	71.5	35.0	30.6	33.6	38.4	38.9	39.9	41.3	41.8
82.5°	83.2	52.0	33.1	19.0	17.5	19.0	24.8	29.7	30.1	33.1	33.1
85°	8.8	5.3	7.3	7.8	6.8	8.3	11.2	10.7	4.9	2.9	2.9
87.5°	2.4	1.9	2.4	2.4	1.9	1.9	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)