

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: P798788

Luminaire Tested: **ARCH1-30-750-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798788
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: ARCH1-30-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

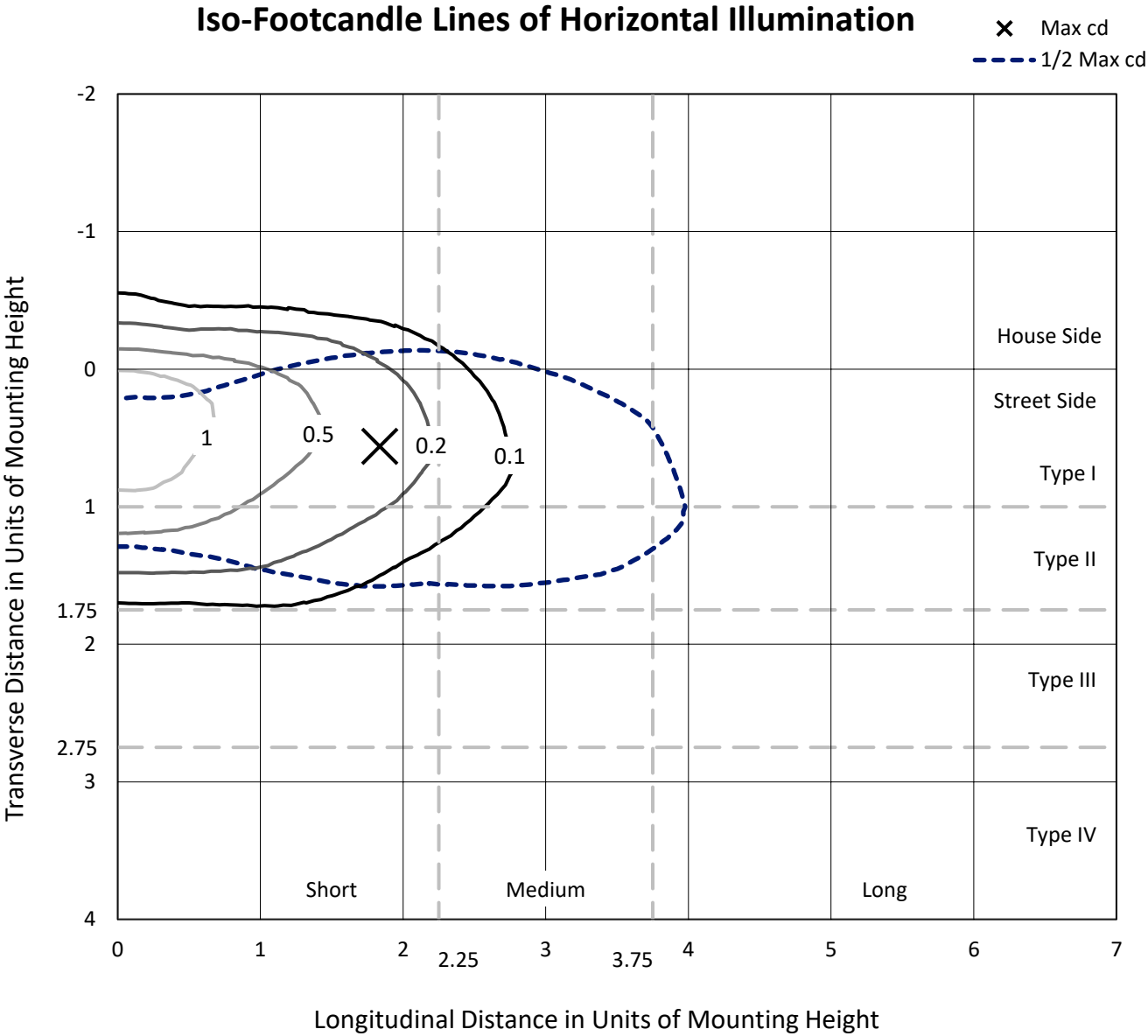
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3193 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

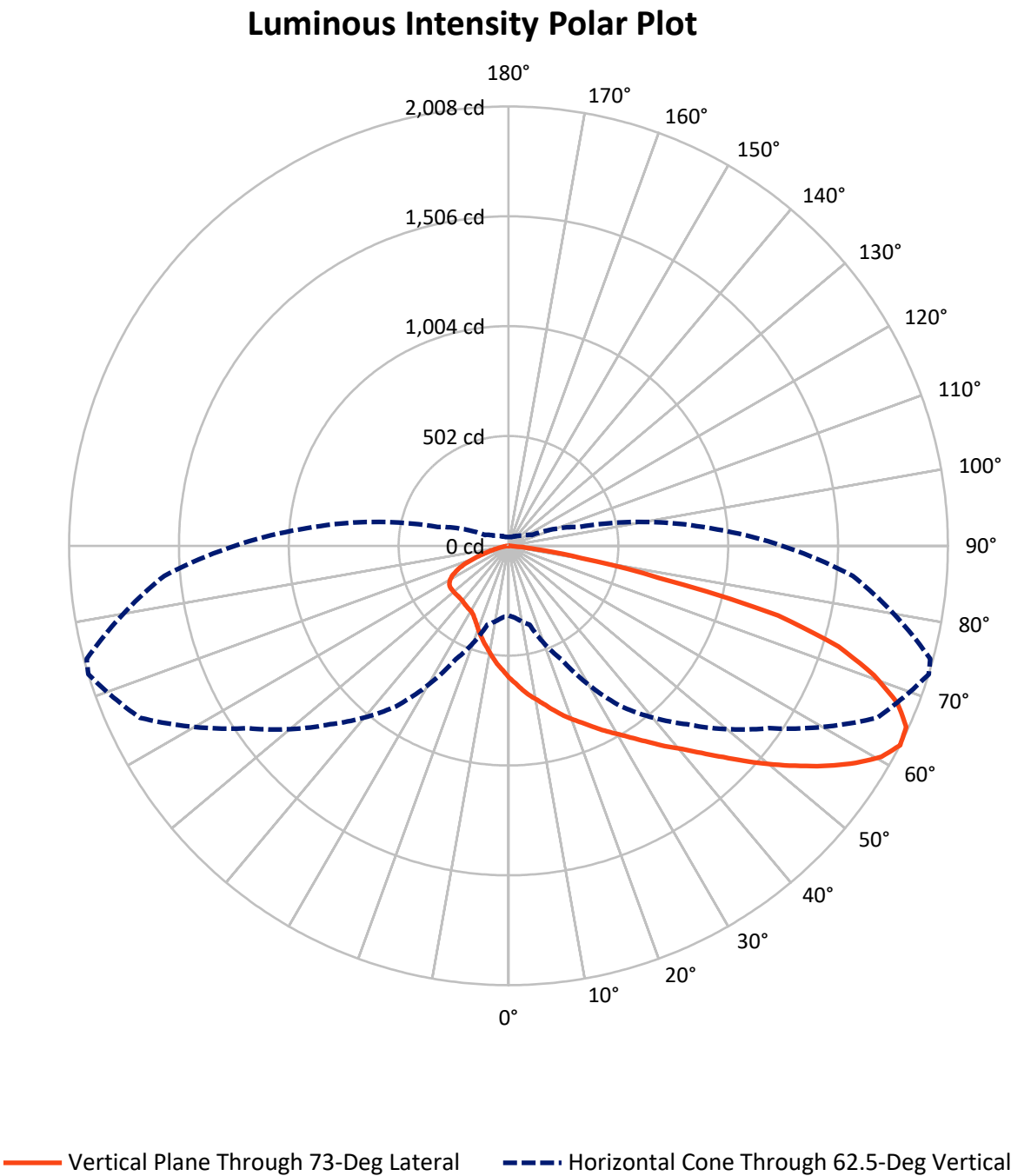


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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

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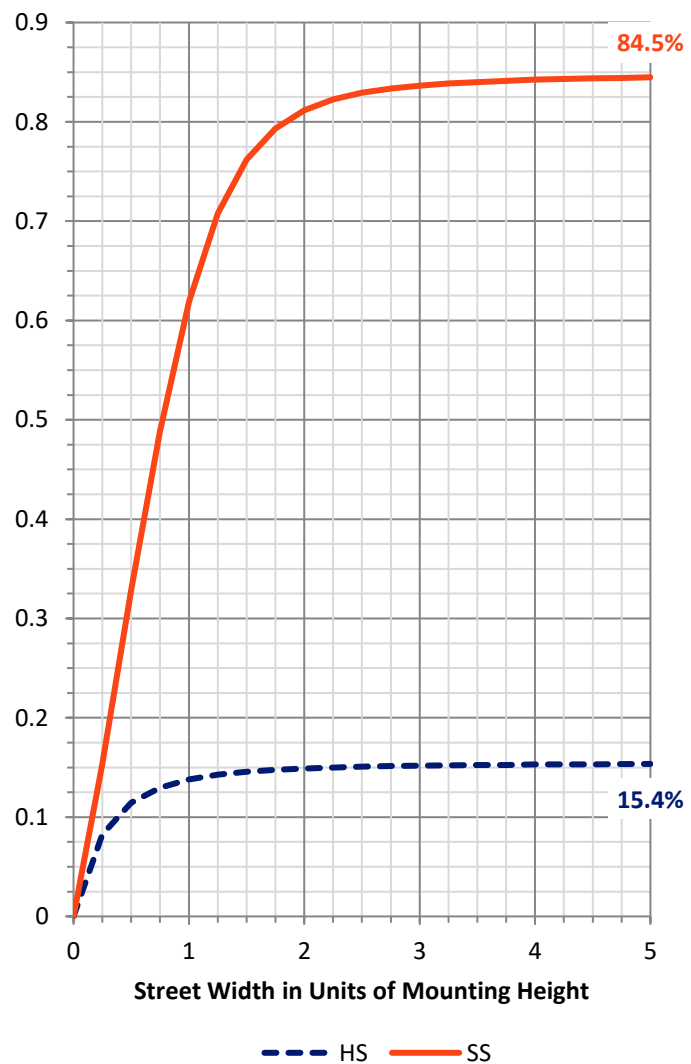
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.0	0.0	495.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2698.0	0.0	2698.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	3193.0	0.0	3193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.8
10°-20°	176.2	5.5
20°-30°	293.4	9.2
30°-40°	442.7	13.9
40°-50°	618.7	19.4
50°-60°	683.4	21.4
60°-70°	595.3	18.6
70°-80°	300.7	9.4
80°-90°	24.1	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°	3193.0	100.0
0°-180°	3193.0	100.0

Coefficient of Utilization



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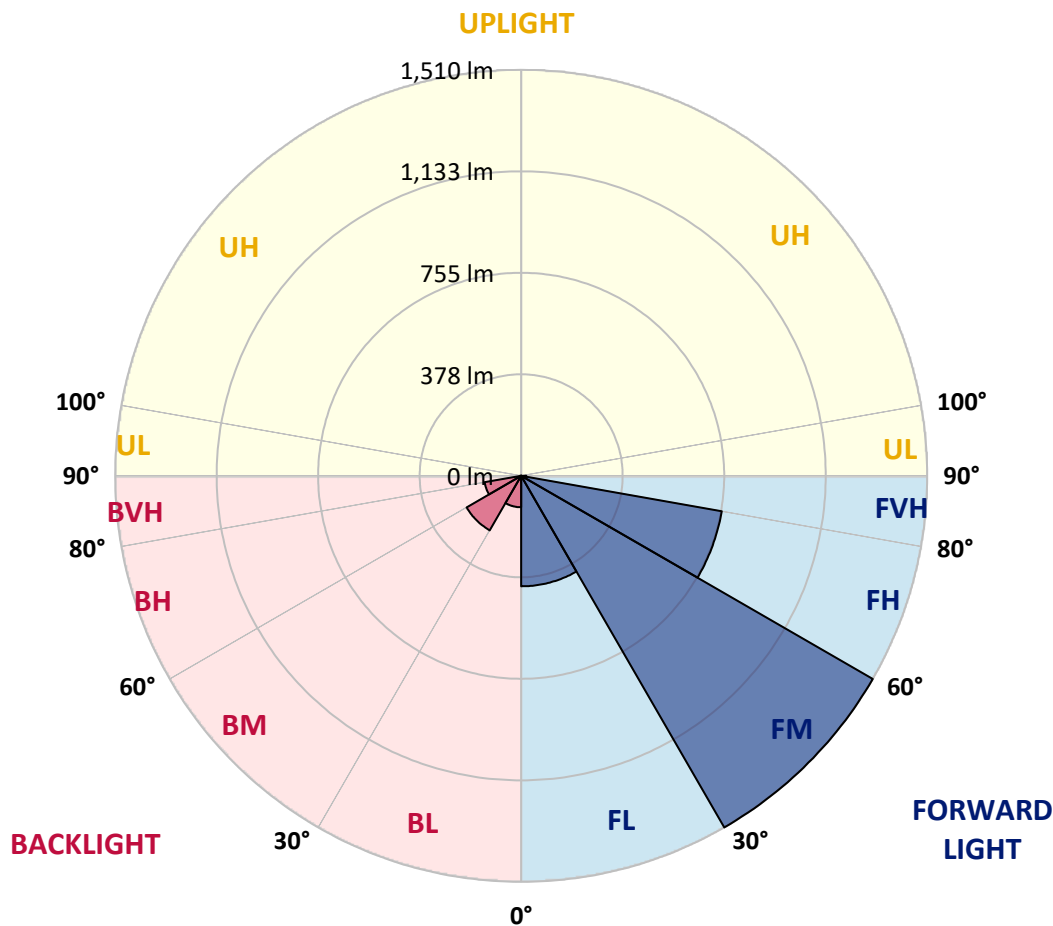
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.0	12.9			
FM	(30°-60°)	1510.4	47.3			
FH	(60°-80°)	757.9	23.7			G1/1800
FVH	(80°-90°)	18.7	0.6			G1/100
BL	(0°-30°)	117.0	3.7	B1/500		
BM	(30°-60°)	234.4	7.3	B1/1000		
BH	(60°-80°)	138.1	4.3	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6
2.5°	688.1	695.7	691.6	694.4	680.4	671.4	661.0	640.8	629.6	628.3	615.0
5°	789.0	797.3	790.4	788.3	763.9	743.1	719.4	683.9	660.3	656.1	626.9
7.5°	889.9	897.5	889.2	882.9	850.2	813.3	778.5	726.4	689.5	682.5	636.6
10°	960.8	967.8	961.5	955.3	921.2	883.6	834.2	766.0	715.9	704.8	642.9
12.5°	1014.4	1018.6	1015.8	1010.2	978.2	937.9	890.6	810.5	745.8	731.9	652.6
15°	1058.2	1065.2	1061.7	1057.5	1026.9	986.6	941.3	857.2	780.6	763.2	667.2
17.5°	1087.4	1092.3	1093.0	1093.0	1065.9	1026.2	982.4	899.6	815.4	793.1	681.1
20°	1100.7	1106.2	1109.7	1115.3	1093.0	1058.9	1014.4	935.8	848.1	823.1	694.4
22.5°	1106.9	1111.8	1120.8	1133.4	1115.3	1086.8	1045.7	969.2	880.8	854.4	709.7
25°	1111.8	1118.1	1131.3	1154.9	1142.4	1118.1	1082.6	1007.4	919.8	892.6	731.9
27.5°	1125.0	1132.7	1145.2	1173.7	1158.4	1146.6	1121.5	1048.5	960.8	933.0	759.1
30°	1170.9	1177.2	1176.5	1194.6	1175.8	1172.3	1154.9	1088.1	1000.5	972.6	791.1
32.5°	1254.4	1260.7	1245.4	1238.4	1197.4	1198.1	1191.1	1130.6	1047.8	1019.3	827.9
35°	1344.2	1351.1	1331.0	1319.1	1250.3	1230.1	1233.6	1183.5	1100.7	1072.1	873.9
37.5°	1424.2	1432.5	1415.1	1397.7	1328.2	1281.6	1280.9	1242.6	1161.2	1132.0	924.6
40°	1468.0	1477.8	1488.2	1478.5	1405.4	1353.9	1331.7	1303.1	1221.0	1191.1	979.6
42.5°	1488.9	1516.0	1534.8	1528.5	1468.7	1416.5	1390.1	1366.4	1294.1	1264.9	1045.0
45°	1430.4	1431.1	1470.8	1504.9	1493.8	1459.0	1454.1	1437.4	1377.6	1349.7	1118.8
47.5°	1357.4	1351.8	1379.7	1440.2	1471.5	1480.5	1509.1	1516.0	1472.9	1445.1	1193.9
50°	1182.1	1185.5	1276.0	1363.0	1424.2	1482.6	1548.0	1596.7	1571.0	1544.6	1273.2
52.5°	961.5	969.9	1073.5	1264.9	1361.6	1461.8	1571.0	1677.4	1671.2	1646.1	1352.5
55°	770.9	784.1	894.0	1101.4	1281.6	1415.1	1580.7	1751.2	1774.8	1751.9	1430.4
57.5°	589.3	603.2	695.7	908.6	1179.3	1339.3	1573.8	1815.9	1871.6	1856.9	1502.1
60°	443.9	457.8	516.9	736.8	1051.3	1254.4	1539.0	1858.3	1958.5	1943.2	1554.3
62.5°	318.0	329.1	372.9	573.3	895.4	1153.5	1453.4	1859.0	2007.9	1995.4	1579.3
65°	228.9	228.9	264.4	409.1	749.3	1032.5	1324.0	1773.5	1997.5	1994.0	1561.9
67.5°	164.9	166.3	194.8	286.0	597.6	885.7	1156.3	1621.1	1916.8	1934.2	1499.3
70°	116.9	120.4	133.6	199.7	451.5	699.2	976.8	1421.4	1771.4	1802.0	1378.3
72.5°	90.4	92.5	101.6	139.1	329.8	519.7	778.5	1198.8	1577.3	1612.0	1213.4
75°	69.6	71.7	78.6	102.3	236.6	364.6	553.1	930.2	1271.8	1333.7	974.7
77.5°	50.8	53.6	58.4	74.4	137.8	231.7	335.3	523.2	702.0	731.2	510.7
80°	23.7	27.1	34.1	48.0	74.4	109.2	119.0	201.8	337.4	352.7	276.9
82.5°	13.2	16.7	19.5	29.2	37.6	39.0	40.4	50.8	127.3	140.5	116.2
85°	6.3	8.3	9.0	12.5	12.5	11.1	13.2	9.7	20.9	25.0	24.4
87.5°	0.0	0.7	1.4	3.5	2.8	2.1	2.1	2.1	2.1	2.8	2.1
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°	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6	604.6
2.5°	608.8	599.7	578.9	560.8	548.9	538.5	524.6	518.3	507.2	509.3	503.0
5°	612.3	595.6	558.7	524.6	499.5	477.3	452.9	439.0	423.7	422.3	417.4
7.5°	614.3	588.6	535.7	487.7	449.5	415.4	382.7	364.6	345.8	341.6	337.4
10°	612.3	578.2	512.1	449.5	398.7	356.2	319.3	296.4	276.9	272.0	267.9
12.5°	614.3	572.6	489.8	414.0	353.4	305.4	263.7	240.0	221.9	217.1	214.3
15°	619.2	569.1	471.0	382.0	313.1	259.5	218.5	198.3	183.7	178.8	177.4
17.5°	623.4	565.6	450.8	350.7	272.7	219.2	183.7	167.0	154.5	149.6	148.2
20°	629.0	560.8	430.7	320.7	237.2	187.2	155.8	141.2	131.5	128.0	127.3
22.5°	633.8	557.3	411.9	290.8	204.5	161.4	135.0	123.1	116.2	112.7	112.7
25°	646.3	558.7	395.9	263.0	180.2	141.2	119.0	109.9	104.4	102.3	102.3
27.5°	661.0	564.2	383.4	239.3	159.3	125.9	107.8	100.2	97.4	94.6	95.3
30°	681.8	575.4	375.0	219.9	144.0	114.1	98.8	93.2	90.4	89.8	89.8
32.5°	708.3	593.5	374.3	207.3	132.9	105.1	92.5	87.7	86.3	85.6	85.6
35°	739.6	609.5	370.1	201.8	125.9	98.8	87.7	84.2	83.5	83.5	83.5
37.5°	777.1	635.9	367.4	194.1	122.5	95.3	84.2	81.4	81.4	81.4	81.4
40°	816.1	657.5	363.2	187.2	121.1	93.2	82.1	78.6	78.6	78.6	78.6
42.5°	862.7	688.8	361.8	183.7	119.0	91.8	79.3	75.1	75.8	75.8	76.5
45°	919.1	724.3	361.1	180.2	118.3	90.4	76.5	71.7	72.4	71.7	71.7
47.5°	976.1	765.3	363.2	178.1	117.6	89.1	74.4	68.2	68.2	67.5	67.5
50°	1036.0	802.9	364.6	176.0	116.2	86.3	71.0	65.4	64.0	62.6	63.3
52.5°	1092.3	837.7	365.3	172.5	112.0	82.1	68.2	61.9	59.8	57.7	58.4
55°	1148.7	871.1	366.7	168.4	106.4	77.9	64.7	58.4	55.7	52.9	52.9
57.5°	1199.5	900.3	363.2	157.9	100.2	73.7	61.2	54.3	50.1	47.3	47.3
60°	1234.2	921.2	352.7	142.6	91.8	68.9	57.7	50.1	45.2	43.1	43.1
62.5°	1250.9	924.6	334.0	117.6	81.4	64.0	53.6	45.9	41.7	40.4	40.4
65°	1234.9	909.3	304.7	88.4	70.3	58.4	49.4	42.4	38.3	34.8	34.8
67.5°	1179.3	866.2	264.4	66.8	59.8	52.9	45.2	39.0	34.1	31.3	31.3
70°	1067.3	776.5	204.5	53.6	50.8	45.9	41.0	34.8	30.6	27.1	27.1
72.5°	920.5	658.2	144.0	43.1	43.1	39.0	34.8	30.6	26.4	23.7	23.7
75°	706.2	487.0	96.7	34.8	35.5	32.7	28.5	25.0	22.3	20.2	20.2
77.5°	385.4	240.7	59.1	25.7	26.4	25.0	22.3	20.2	18.8	16.7	16.7
80°	187.2	105.8	34.1	18.1	18.8	18.1	16.7	14.6	14.6	13.2	13.2
82.5°	78.6	39.7	18.1	12.5	12.5	11.1	10.4	10.4	10.4	9.7	9.7
85°	19.5	7.7	7.7	7.0	7.0	7.0	6.3	6.3	6.3	4.9	5.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.1	0.7	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)