

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: P799508

Luminaire Tested: **ARCH2-30-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799508
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: ARCH2-30-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

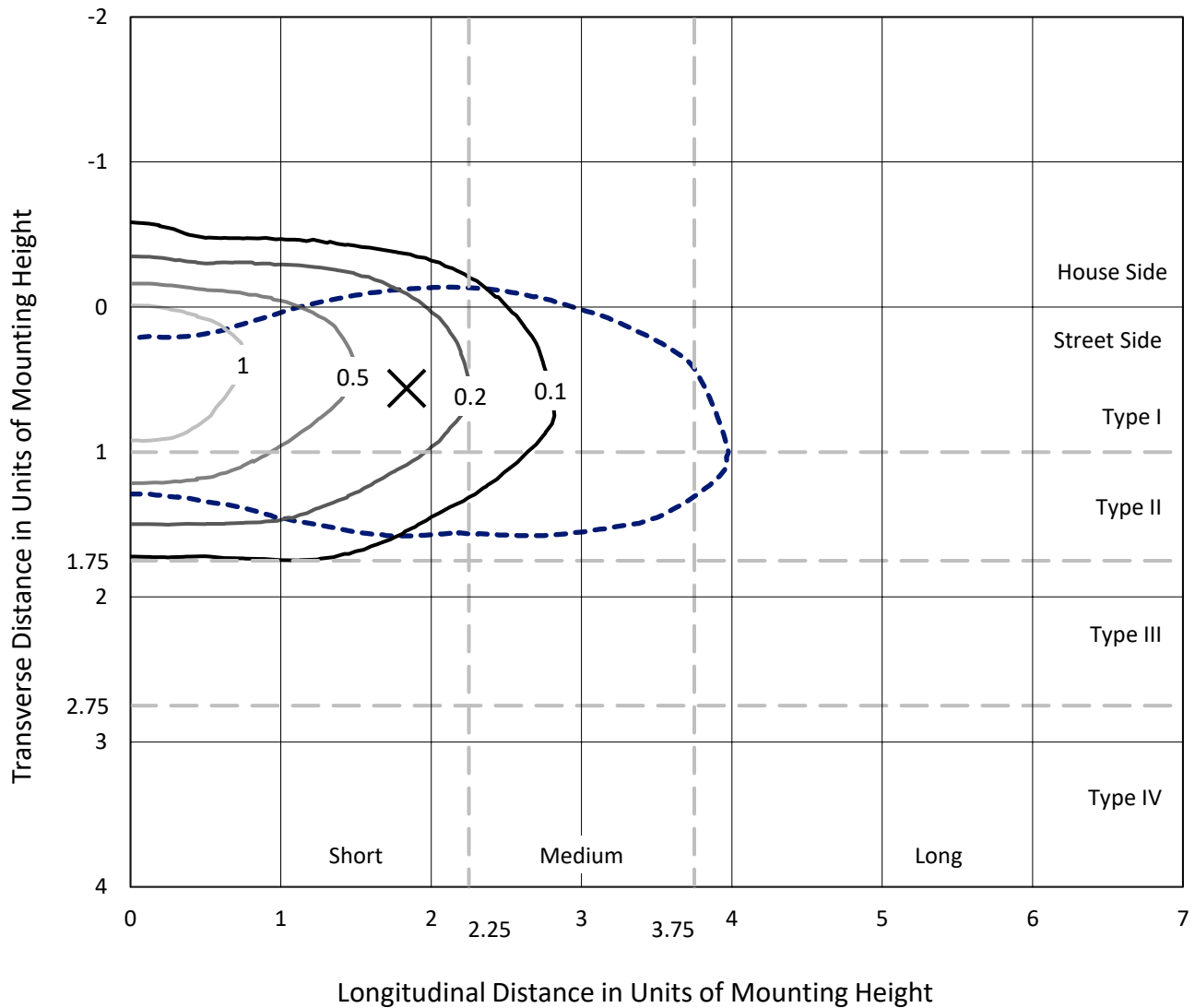
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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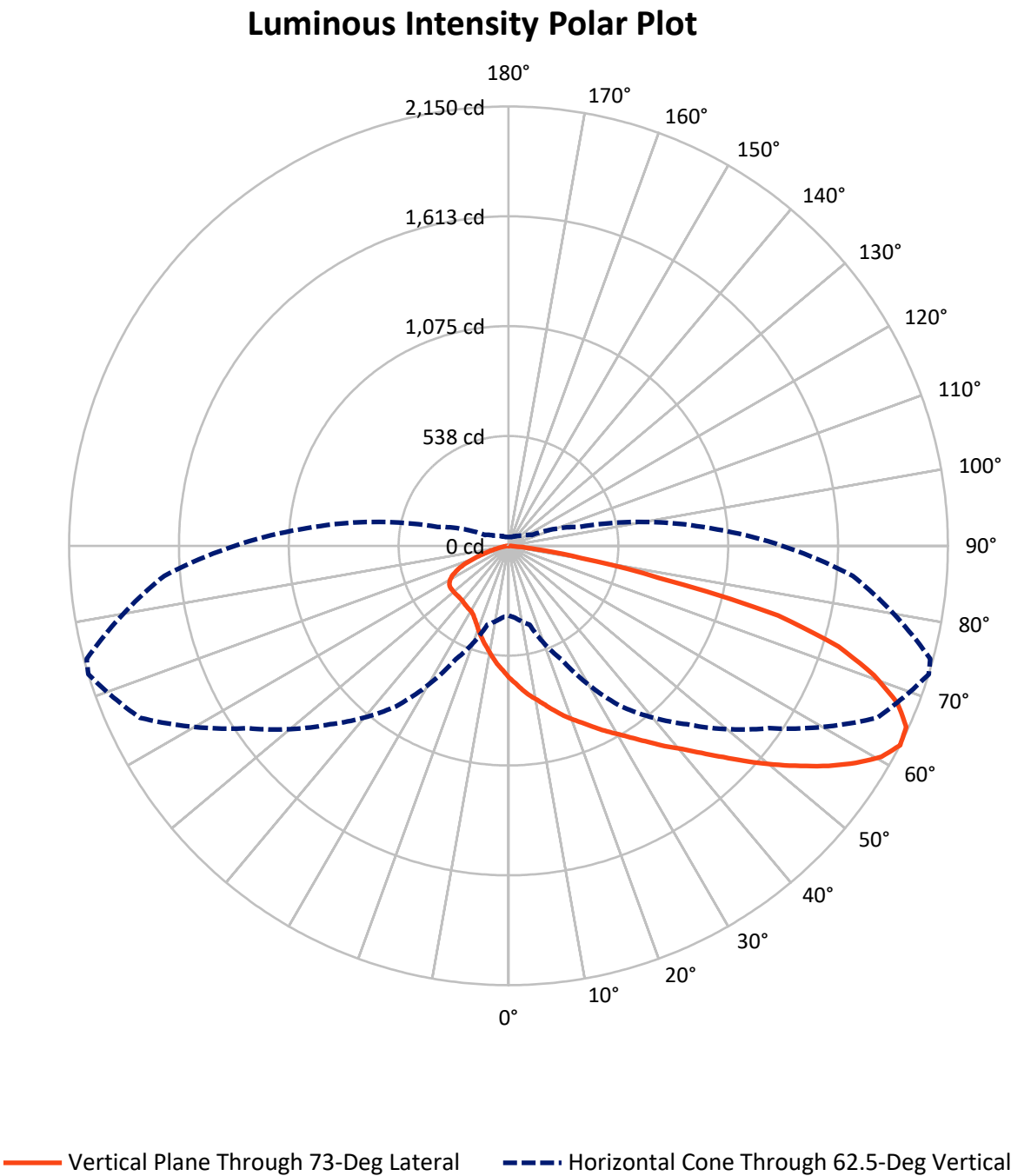
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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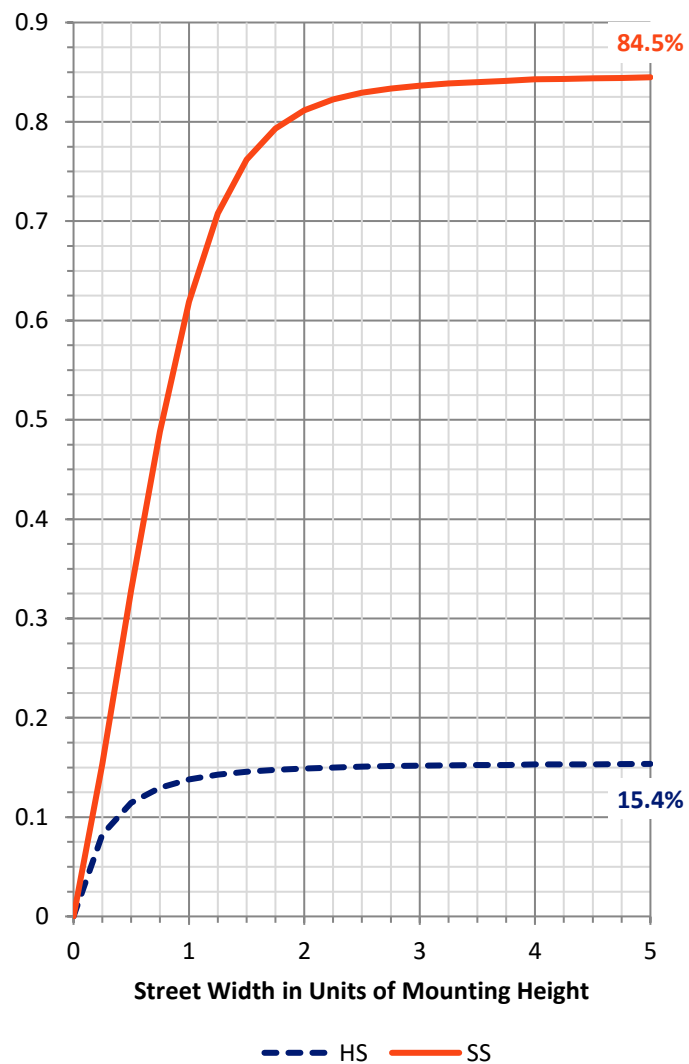
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	530.0	0.0	530.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2889.0	0.0	2889.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	3419.0	0.0	3419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	1.8
10°-20°	188.7	5.5
20°-30°	314.1	9.2
30°-40°	474.0	13.9
40°-50°	662.5	19.4
50°-60°	731.8	21.4
60°-70°	637.5	18.6
70°-80°	322.0	9.4
80°-90°	25.8	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°	3419.0	100.0
0°-180°	3419.0	100.0

Coefficient of Utilization



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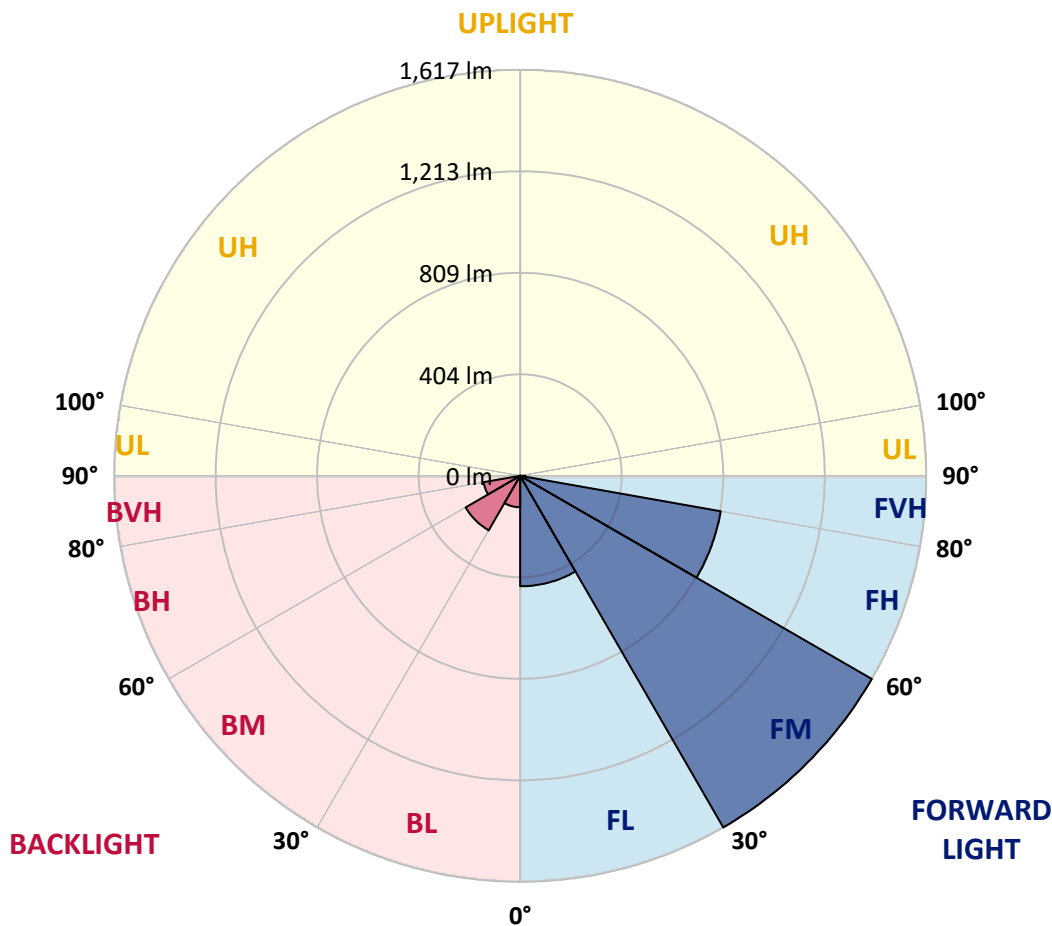
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.1	12.9			
FM	(30°-60°)	1617.3	47.3			
FH	(60°-80°)	811.6	23.7			G1/1800
FVH	(80°-90°)	20.0	0.6			G1/100
BL	(0°-30°)	125.3	3.7	B1/500		
BM	(30°-60°)	250.9	7.3	B1/1000		
BH	(60°-80°)	147.9	4.3	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	736.8	745.0	740.5	743.5	728.6	718.9	707.7	686.1	674.2	672.7	658.6
5°	844.8	853.8	846.3	844.1	818.0	795.6	770.3	732.3	707.0	702.5	671.2
7.5°	952.8	961.0	952.1	945.4	910.4	870.9	833.6	777.8	738.3	730.8	681.7
10°	1028.8	1036.3	1029.6	1022.9	986.4	946.1	893.2	820.2	766.6	754.7	688.4
12.5°	1086.2	1090.7	1087.7	1081.7	1047.5	1004.2	953.6	867.9	798.6	783.7	698.8
15°	1133.1	1140.6	1136.9	1132.4	1099.6	1056.4	1008.0	917.8	835.9	817.3	714.4
17.5°	1164.4	1169.6	1170.4	1170.4	1141.3	1098.9	1051.9	963.3	873.1	849.3	729.3
20°	1178.6	1184.5	1188.3	1194.2	1170.4	1133.9	1086.2	1002.0	908.1	881.3	743.5
22.5°	1185.3	1190.5	1200.2	1213.6	1194.2	1163.7	1119.7	1037.8	943.2	914.8	759.9
25°	1190.5	1197.2	1211.4	1236.7	1223.3	1197.2	1159.2	1078.7	984.9	955.8	783.7
27.5°	1204.6	1212.8	1226.3	1256.8	1240.4	1227.7	1200.9	1122.7	1028.8	999.0	812.8
30°	1253.8	1260.5	1259.8	1279.1	1259.0	1255.3	1236.7	1165.2	1071.3	1041.5	847.1
32.5°	1343.2	1349.9	1333.5	1326.1	1282.1	1282.9	1275.4	1210.6	1122.0	1091.4	886.5
35°	1439.3	1446.8	1425.2	1412.5	1338.7	1317.1	1320.9	1267.2	1178.6	1148.0	935.7
37.5°	1525.0	1533.9	1515.3	1496.7	1422.2	1372.3	1371.5	1330.5	1243.4	1212.1	990.1
40°	1571.9	1582.4	1593.5	1583.1	1504.9	1449.7	1425.9	1395.4	1307.5	1275.4	1048.9
42.5°	1594.3	1623.3	1643.4	1636.7	1572.7	1516.8	1488.5	1463.2	1385.7	1354.4	1119.0
45°	1531.7	1532.4	1574.9	1611.4	1599.5	1562.2	1557.0	1539.1	1475.1	1445.3	1197.9
47.5°	1453.5	1447.5	1477.3	1542.1	1575.7	1585.3	1615.9	1623.3	1577.1	1547.3	1278.4
50°	1265.7	1269.5	1366.3	1459.4	1525.0	1587.6	1657.6	1709.7	1682.2	1653.9	1363.3
52.5°	1029.6	1038.5	1149.5	1354.4	1457.9	1565.2	1682.2	1796.2	1789.5	1762.6	1448.3
55°	825.4	839.6	957.3	1179.3	1372.3	1515.3	1692.6	1875.1	1900.5	1875.9	1531.7
57.5°	631.0	645.9	745.0	973.0	1262.8	1434.1	1685.2	1944.4	2004.0	1988.4	1608.4
60°	475.3	490.2	553.5	788.9	1125.7	1343.2	1647.9	1989.9	2097.1	2080.8	1664.3
62.5°	340.5	352.4	399.3	613.9	958.8	1235.2	1556.3	1990.6	2150.0	2136.6	1691.1
65°	245.1	245.1	283.1	438.1	802.4	1105.6	1417.7	1899.0	2138.9	2135.1	1672.5
67.5°	176.6	178.1	208.6	306.2	639.9	948.4	1238.2	1735.8	2052.4	2071.1	1605.4
70°	125.2	128.9	143.0	213.8	483.5	748.7	1046.0	1522.0	1896.7	1929.5	1475.8
72.5°	96.8	99.1	108.8	149.0	353.1	556.5	833.6	1283.6	1688.9	1726.1	1299.3
75°	74.5	76.7	84.2	109.5	253.3	390.4	592.3	996.0	1361.8	1428.1	1043.7
77.5°	54.4	57.4	62.6	79.7	147.5	248.1	359.1	560.2	751.7	783.0	546.8
80°	25.3	29.1	36.5	51.4	79.7	117.0	127.4	216.0	361.3	377.7	296.5
82.5°	14.2	17.9	20.9	31.3	40.2	41.7	43.2	54.4	136.3	150.5	124.4
85°	6.7	8.9	9.7	13.4	13.4	11.9	14.2	10.4	22.3	26.8	26.1
87.5°	0.0	0.7	1.5	3.7	3.0	2.2	2.2	2.2	2.2	3.0	2.2
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°	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4	647.4
2.5°	651.9	642.2	619.8	600.5	587.8	576.6	561.7	555.0	543.1	545.3	538.6
5°	655.6	637.7	598.2	561.7	534.9	511.1	485.0	470.1	453.7	452.2	447.0
7.5°	657.8	630.3	573.6	522.2	481.3	444.8	409.7	390.4	370.3	365.8	361.3
10°	655.6	619.1	548.3	481.3	426.9	381.4	341.9	317.4	296.5	291.3	286.8
12.5°	657.8	613.1	524.5	443.3	378.5	327.0	282.4	257.0	237.7	232.4	229.5
15°	663.0	609.4	504.4	409.0	335.2	277.9	233.9	212.3	196.7	191.5	190.0
17.5°	667.5	605.7	482.8	375.5	292.0	234.7	196.7	178.8	165.4	160.2	158.7
20°	673.5	600.5	461.1	343.4	254.0	200.4	166.9	151.2	140.8	137.1	136.3
22.5°	678.7	596.7	441.0	311.4	219.0	172.8	144.5	131.9	124.4	120.7	120.7
25°	692.1	598.2	423.9	281.6	193.0	151.2	127.4	117.7	111.7	109.5	109.5
27.5°	707.7	604.2	410.5	256.3	170.6	134.8	115.5	107.3	104.3	101.3	102.1
30°	730.1	616.1	401.5	235.4	154.2	122.2	105.8	99.8	96.8	96.1	96.1
32.5°	758.4	635.5	400.8	222.0	142.3	112.5	99.1	93.9	92.4	91.6	91.6
35°	791.9	652.6	396.3	216.0	134.8	105.8	93.9	90.1	89.4	89.4	89.4
37.5°	832.2	680.9	393.4	207.9	131.1	102.1	90.1	87.2	87.2	87.2	87.2
40°	873.9	704.0	388.9	200.4	129.6	99.8	87.9	84.2	84.2	84.2	84.2
42.5°	923.8	737.5	387.4	196.7	127.4	98.3	84.9	80.5	81.2	81.2	81.9
45°	984.1	775.5	386.6	193.0	126.6	96.8	81.9	76.7	77.5	76.7	76.7
47.5°	1045.2	819.5	388.9	190.7	125.9	95.4	79.7	73.0	73.0	72.3	72.3
50°	1109.3	859.7	390.4	188.5	124.4	92.4	76.0	70.0	68.5	67.0	67.8
52.5°	1169.6	897.0	391.1	184.8	119.9	87.9	73.0	66.3	64.1	61.8	62.6
55°	1230.0	932.7	392.6	180.3	114.0	83.4	69.3	62.6	59.6	56.6	56.6
57.5°	1284.4	964.0	388.9	169.1	107.3	79.0	65.6	58.1	53.6	50.7	50.7
60°	1321.6	986.4	377.7	152.7	98.3	73.8	61.8	53.6	48.4	46.2	46.2
62.5°	1339.5	990.1	357.6	125.9	87.2	68.5	57.4	49.2	44.7	43.2	43.2
65°	1322.4	973.7	326.3	94.6	75.2	62.6	52.9	45.4	41.0	37.2	37.2
67.5°	1262.8	927.5	283.1	71.5	64.1	56.6	48.4	41.7	36.5	33.5	33.5
70°	1142.8	831.4	219.0	57.4	54.4	49.2	44.0	37.2	32.8	29.1	29.1
72.5°	985.6	704.8	154.2	46.2	46.2	41.7	37.2	32.8	28.3	25.3	25.3
75°	756.2	521.5	103.6	37.2	38.0	35.0	30.5	26.8	23.8	21.6	21.6
77.5°	412.7	257.8	63.3	27.6	28.3	26.8	23.8	21.6	20.1	17.9	17.9
80°	200.4	113.2	36.5	19.4	20.1	19.4	17.9	15.6	15.6	14.2	14.2
82.5°	84.2	42.5	19.4	13.4	13.4	11.9	11.2	11.2	11.2	10.4	10.4
85°	20.9	8.2	8.2	7.4	7.4	7.4	6.7	6.7	6.7	5.2	6.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.2	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)