

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: P799684

Luminaire Tested: **ARCH2-40-750-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799684
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: ARCH2-40-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA 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: 4522 lumens
Efficiency: N/A
Efficacy: 102.5 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): 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



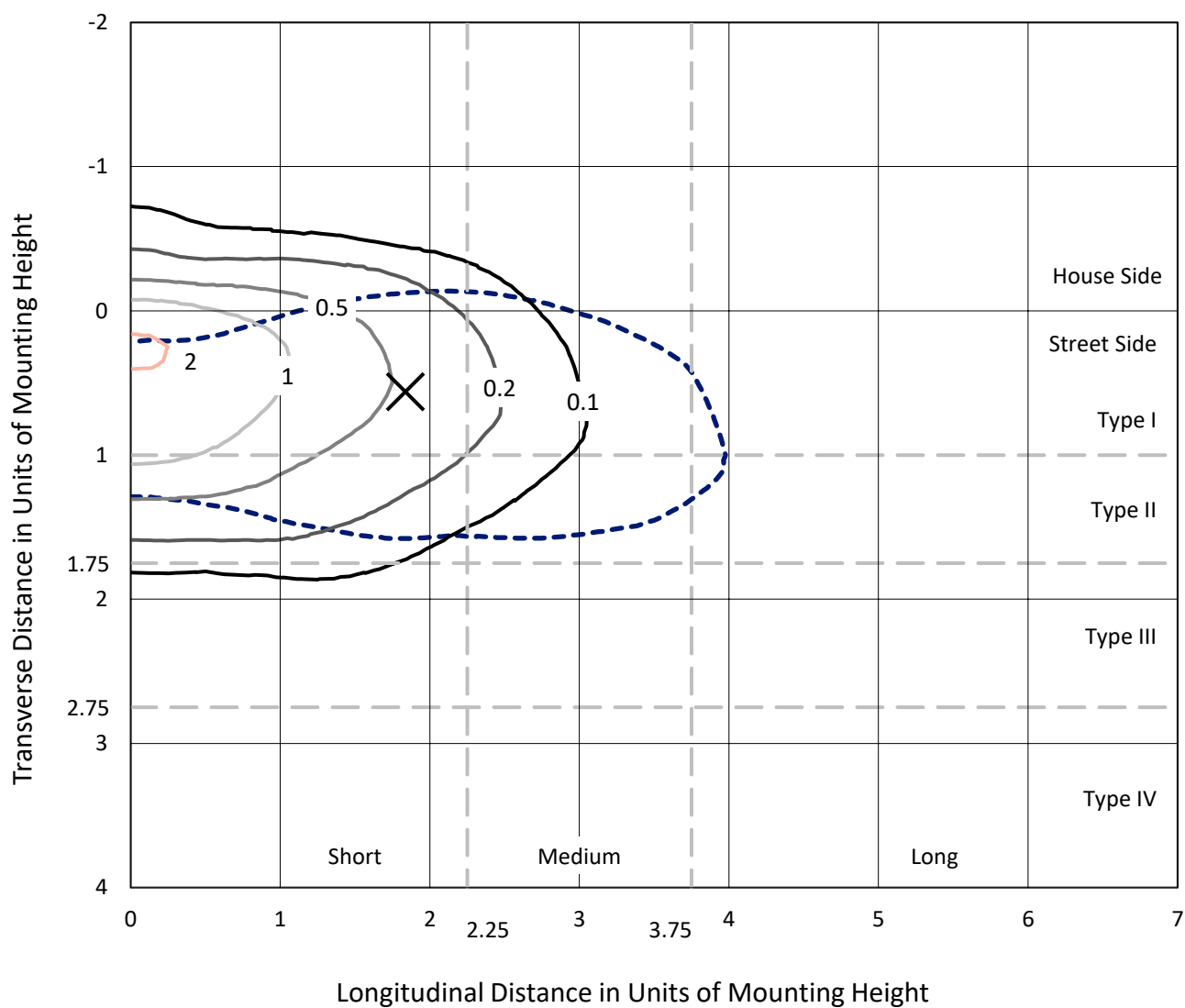
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

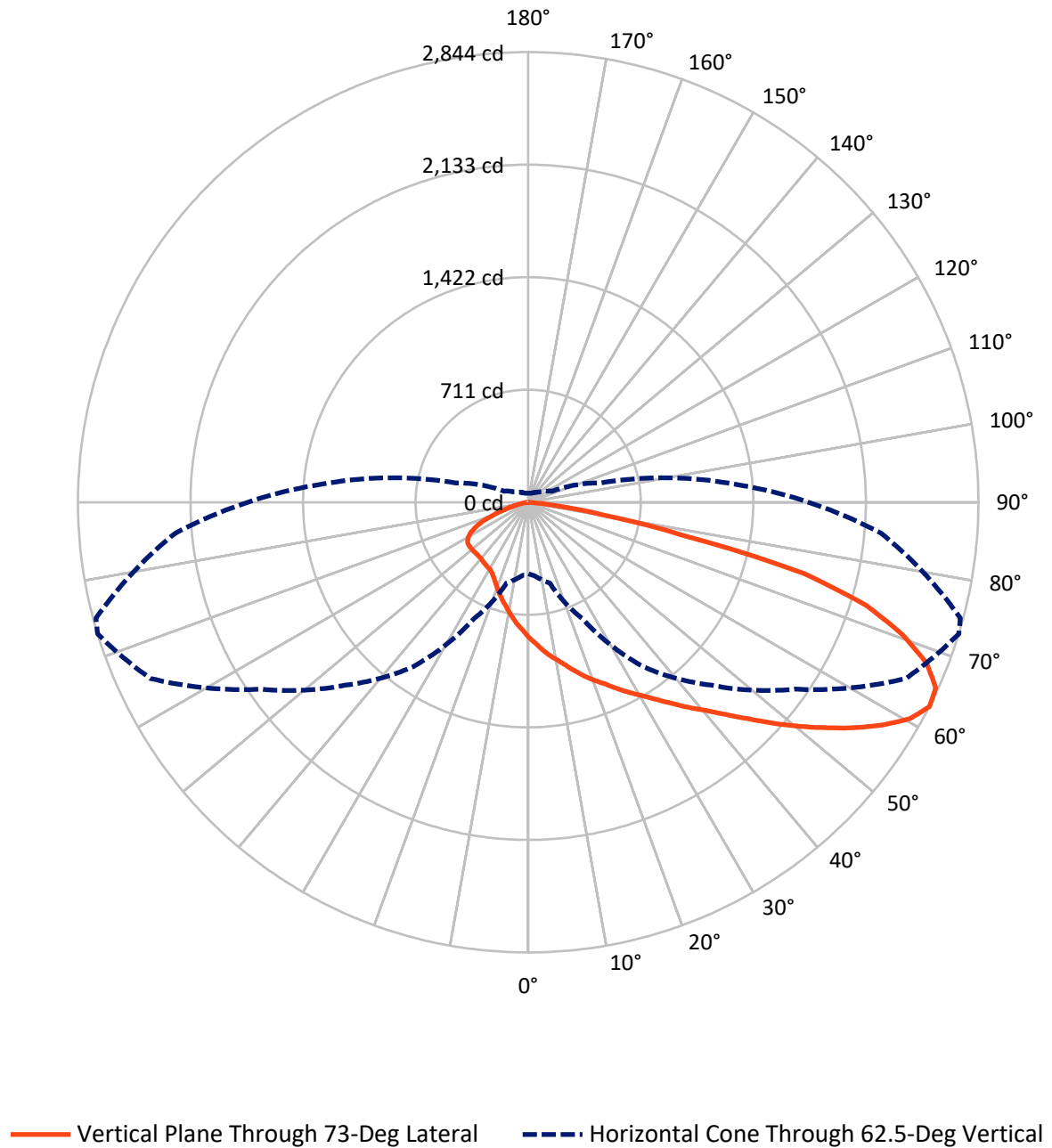


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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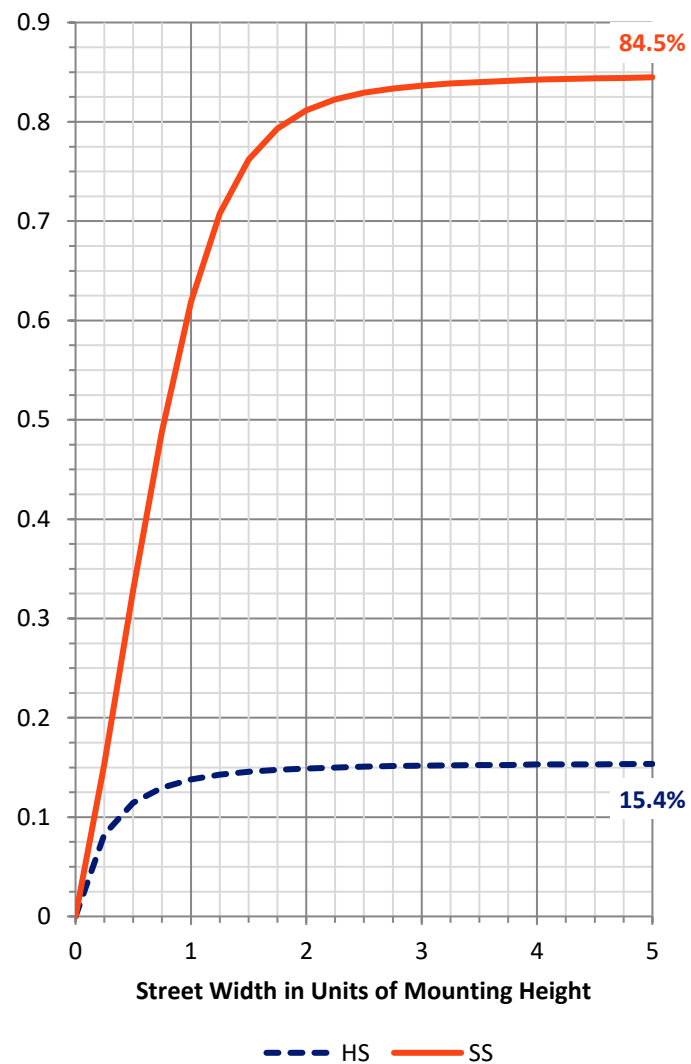
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	701.0	0.0	701.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3821.0	0.0	3821.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	4522.0	0.0	4522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.8
10°-20°	249.6	5.5
20°-30°	415.5	9.2
30°-40°	626.9	13.9
40°-50°	876.2	19.4
50°-60°	967.9	21.4
60°-70°	843.1	18.6
70°-80°	425.9	9.4
80°-90°	34.2	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°	4522.0	100.0
0°-180°	4522.0	100.0

Coefficient of Utilization



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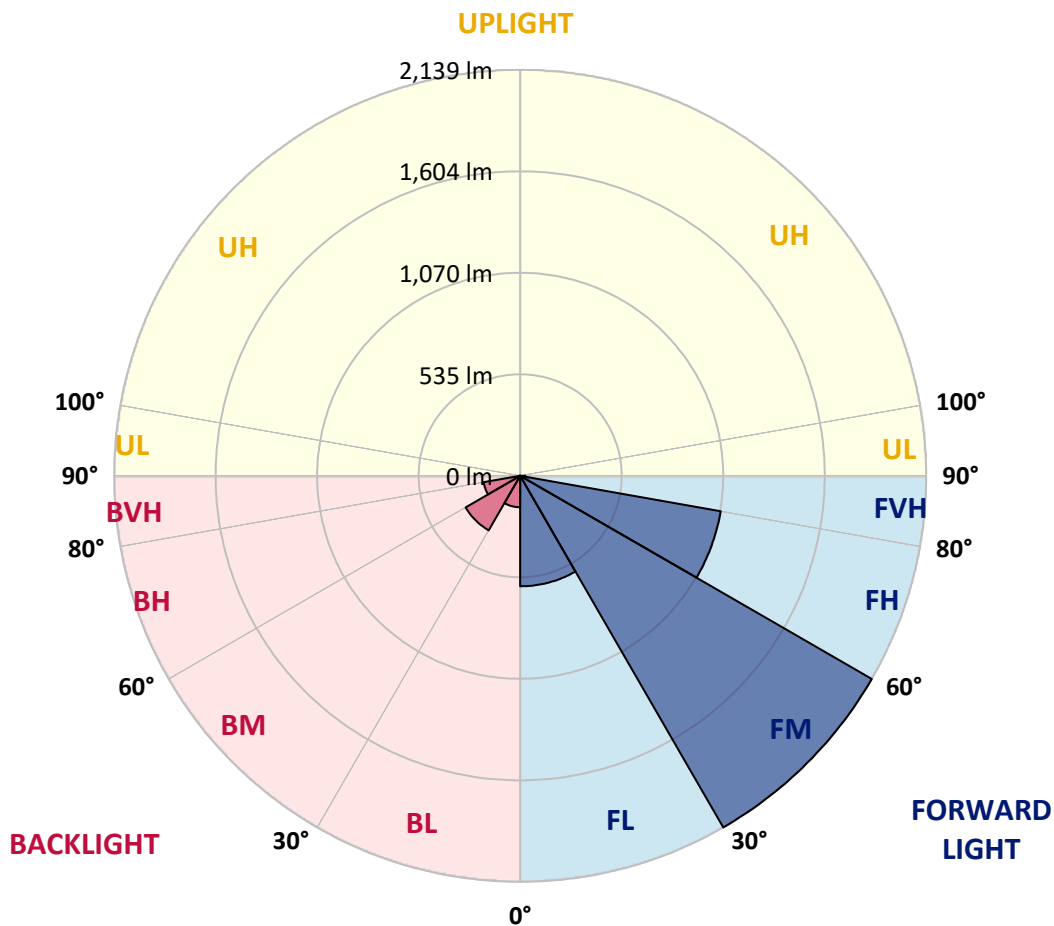
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.1	12.9			
FM	(30°-60°)	2139.1	47.3			
FH	(60°-80°)	1073.4	23.7			G1/1800
FVH	(80°-90°)	26.5	0.6			G1/100
BL	(0°-30°)	165.7	3.7	B1/500		
BM	(30°-60°)	331.9	7.3	B1/1000		
BH	(60°-80°)	195.7	4.3	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3
2.5°	974.5	985.3	979.4	983.4	963.7	950.8	936.1	907.5	891.7	889.8	871.0
5°	1117.4	1129.2	1119.3	1116.4	1081.9	1052.3	1018.8	968.6	935.1	929.2	887.8
7.5°	1260.2	1271.1	1259.2	1250.4	1204.1	1151.8	1102.6	1028.7	976.5	966.6	901.6
10°	1360.7	1370.6	1361.7	1352.9	1304.6	1251.4	1181.4	1084.8	1013.9	998.1	910.4
12.5°	1436.6	1442.5	1438.6	1430.7	1385.4	1328.2	1261.2	1147.9	1056.3	1036.6	924.2
15°	1498.7	1508.5	1503.6	1497.7	1454.3	1397.2	1333.1	1213.9	1105.5	1080.9	944.9
17.5°	1540.1	1547.0	1548.0	1548.0	1509.5	1453.4	1391.3	1274.0	1154.8	1123.3	964.6
20°	1558.8	1566.7	1571.6	1579.5	1548.0	1499.7	1436.6	1325.3	1201.1	1165.6	983.4
22.5°	1567.7	1574.6	1587.4	1605.1	1579.5	1539.1	1480.9	1372.6	1247.4	1210.0	1005.0
25°	1574.6	1583.4	1602.1	1635.6	1617.9	1583.4	1533.2	1426.8	1302.6	1264.2	1036.6
27.5°	1593.3	1604.1	1621.9	1662.2	1640.6	1623.8	1588.3	1484.9	1360.7	1321.3	1075.0
30°	1658.3	1667.2	1666.2	1691.8	1665.2	1660.3	1635.6	1541.1	1416.9	1377.5	1120.3
32.5°	1776.5	1785.4	1763.7	1753.9	1695.7	1696.7	1686.9	1601.2	1483.9	1443.5	1172.5
35°	1903.7	1913.5	1884.9	1868.2	1770.6	1742.1	1747.0	1676.0	1558.8	1518.4	1237.6
37.5°	2017.0	2028.8	2004.2	1979.5	1881.0	1815.0	1814.0	1759.8	1644.5	1603.1	1309.5
40°	2079.0	2092.8	2107.6	2093.8	1990.4	1917.4	1885.9	1845.5	1729.3	1686.9	1387.3
42.5°	2108.6	2147.0	2173.6	2164.8	2080.0	2006.1	1968.7	1935.2	1832.7	1791.3	1480.0
45°	2025.8	2026.8	2083.0	2131.3	2115.5	2066.2	2059.3	2035.7	1951.0	1911.5	1584.4
47.5°	1922.4	1914.5	1953.9	2039.6	2084.0	2096.8	2137.2	2147.0	2085.9	2046.5	1690.8
50°	1674.1	1679.0	1807.1	1930.3	2017.0	2099.7	2192.4	2261.3	2224.9	2187.4	1803.2
52.5°	1361.7	1373.5	1520.4	1791.3	1928.3	2070.2	2224.9	2375.6	2366.8	2331.3	1915.5
55°	1091.7	1110.5	1266.1	1559.8	1815.0	2004.2	2238.7	2480.1	2513.6	2481.1	2025.8
57.5°	834.6	854.3	985.3	1286.8	1670.1	1896.8	2228.8	2571.7	2650.5	2629.8	2127.3
60°	628.6	648.3	732.1	1043.5	1488.8	1776.5	2179.5	2631.8	2773.7	2752.0	2201.2
62.5°	450.3	466.1	528.1	811.9	1268.1	1633.7	2058.4	2632.8	2843.7	2825.9	2236.7
65°	324.2	324.2	374.4	579.4	1061.2	1462.2	1875.1	2511.6	2828.9	2824.0	2212.1
67.5°	233.5	235.5	275.9	405.0	846.4	1254.3	1637.6	2295.8	2714.6	2739.2	2123.4
70°	165.5	170.5	189.2	282.8	639.5	990.3	1383.4	2013.0	2508.6	2552.0	1951.9
72.5°	128.1	131.0	143.9	197.1	467.0	736.0	1102.6	1697.7	2233.7	2283.0	1718.4
75°	98.5	101.5	111.3	144.8	335.0	516.3	783.3	1317.4	1801.2	1888.9	1380.4
77.5°	71.9	75.9	82.8	105.4	195.1	328.1	474.9	741.0	994.2	1035.6	723.2
80°	33.5	38.4	48.3	68.0	105.4	154.7	168.5	285.7	477.9	499.6	392.2
82.5°	18.7	23.6	27.6	41.4	53.2	55.2	57.1	71.9	180.3	199.0	164.5
85°	8.9	11.8	12.8	17.7	17.7	15.8	18.7	13.8	29.6	35.5	34.5
87.5°	0.0	1.0	2.0	4.9	3.9	3.0	3.0	3.0	3.0	3.9	3.0
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°	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3	856.3
2.5°	862.2	849.4	819.8	794.2	777.4	762.6	742.9	734.1	718.3	721.3	712.4
5°	867.1	843.4	791.2	742.9	707.5	675.9	641.4	621.7	600.1	598.1	591.2
7.5°	870.0	833.6	758.7	690.7	636.5	588.2	541.9	516.3	489.7	483.8	477.9
10°	867.1	818.8	725.2	636.5	564.6	504.5	452.3	419.7	392.2	385.3	379.4
12.5°	870.0	810.9	693.7	586.3	500.5	432.6	373.4	339.9	314.3	307.4	303.5
15°	876.9	806.0	667.1	540.9	443.4	367.5	309.4	280.8	260.1	253.2	251.3
17.5°	882.9	801.1	638.5	496.6	386.2	310.4	260.1	236.5	218.7	211.8	209.9
20°	890.7	794.2	609.9	454.2	336.0	265.1	220.7	200.0	186.2	181.3	180.3
22.5°	897.6	789.2	583.3	411.9	289.7	228.6	191.2	174.4	164.5	159.6	159.6
25°	915.4	791.2	560.7	372.5	255.2	200.0	168.5	155.7	147.8	144.8	144.8
27.5°	936.1	799.1	542.9	339.0	225.6	178.3	152.7	141.9	137.9	134.0	135.0
30°	965.6	814.9	531.1	311.4	204.0	161.6	139.9	132.0	128.1	127.1	127.1
32.5°	1003.1	840.5	530.1	293.6	188.2	148.8	131.0	124.2	122.2	121.2	121.2
35°	1047.4	863.1	524.2	285.7	178.3	139.9	124.2	119.2	118.2	118.2	118.2
37.5°	1100.6	900.6	520.3	274.9	173.4	135.0	119.2	115.3	115.3	115.3	115.3
40°	1155.8	931.1	514.3	265.1	171.4	132.0	116.3	111.3	111.3	111.3	111.3
42.5°	1221.8	975.5	512.4	260.1	168.5	130.1	112.3	106.4	107.4	107.4	108.4
45°	1301.6	1025.7	511.4	255.2	167.5	128.1	108.4	101.5	102.5	101.5	101.5
47.5°	1382.4	1083.9	514.3	252.2	166.5	126.1	105.4	96.6	96.6	95.6	95.6
50°	1467.2	1137.1	516.3	249.3	164.5	122.2	100.5	92.6	90.7	88.7	89.7
52.5°	1547.0	1186.3	517.3	244.4	158.6	116.3	96.6	87.7	84.7	81.8	82.8
55°	1626.8	1233.6	519.3	238.4	150.8	110.4	91.6	82.8	78.8	74.9	74.9
57.5°	1698.7	1275.0	514.3	223.7	141.9	104.4	86.7	76.9	70.9	67.0	67.0
60°	1748.0	1304.6	499.6	202.0	130.1	97.5	81.8	70.9	64.0	61.1	61.1
62.5°	1771.6	1309.5	473.0	166.5	115.3	90.7	75.9	65.0	59.1	57.1	57.1
65°	1749.0	1287.8	431.6	125.1	99.5	82.8	70.0	60.1	54.2	49.3	49.3
67.5°	1670.1	1226.7	374.4	94.6	84.7	74.9	64.0	55.2	48.3	44.3	44.3
70°	1511.5	1099.6	289.7	75.9	71.9	65.0	58.1	49.3	43.4	38.4	38.4
72.5°	1303.6	932.1	204.0	61.1	61.1	55.2	49.3	43.4	37.4	33.5	33.5
75°	1000.1	689.7	137.0	49.3	50.3	46.3	40.4	35.5	31.5	28.6	28.6
77.5°	545.9	340.9	83.8	36.5	37.4	35.5	31.5	28.6	26.6	23.6	23.6
80°	265.1	149.8	48.3	25.6	26.6	25.6	23.6	20.7	20.7	18.7	18.7
82.5°	111.3	56.2	25.6	17.7	17.7	15.8	14.8	14.8	14.8	13.8	13.8
85°	27.6	10.8	10.8	9.9	9.9	9.9	8.9	8.9	8.9	6.9	7.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.0	1.0	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)