

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: P799688

Luminaire Tested: **ARCH2-40-750-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4673 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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

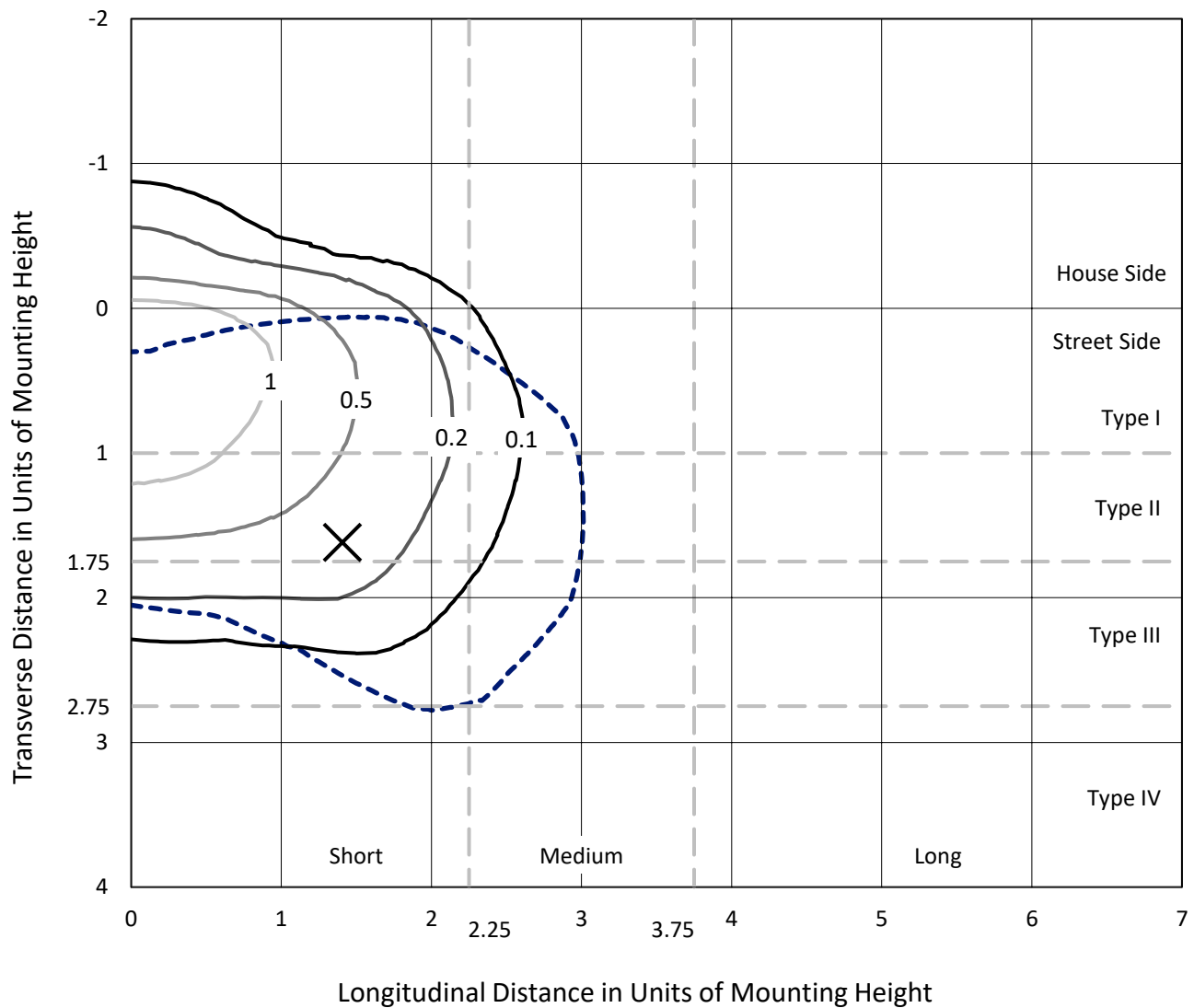


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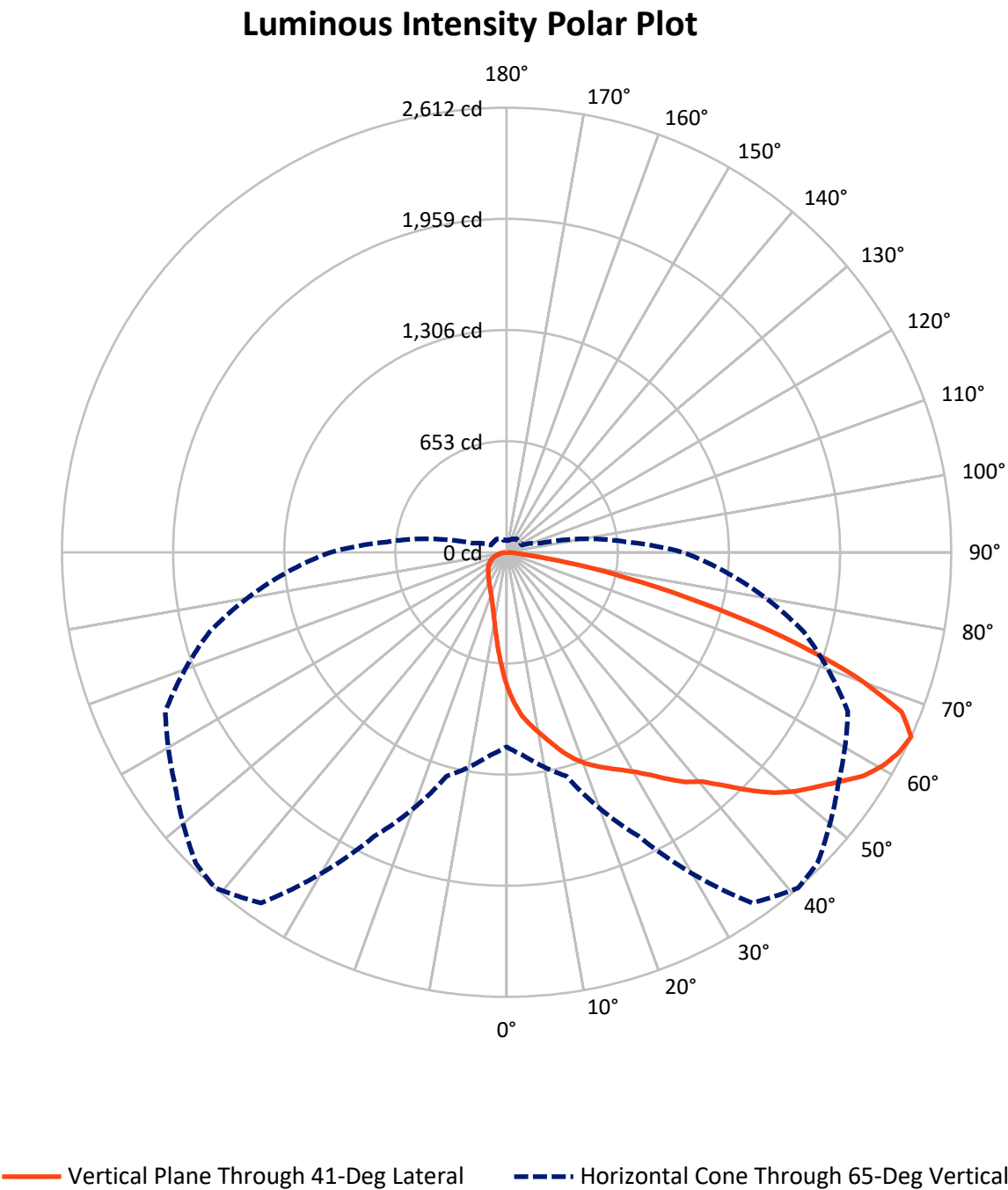
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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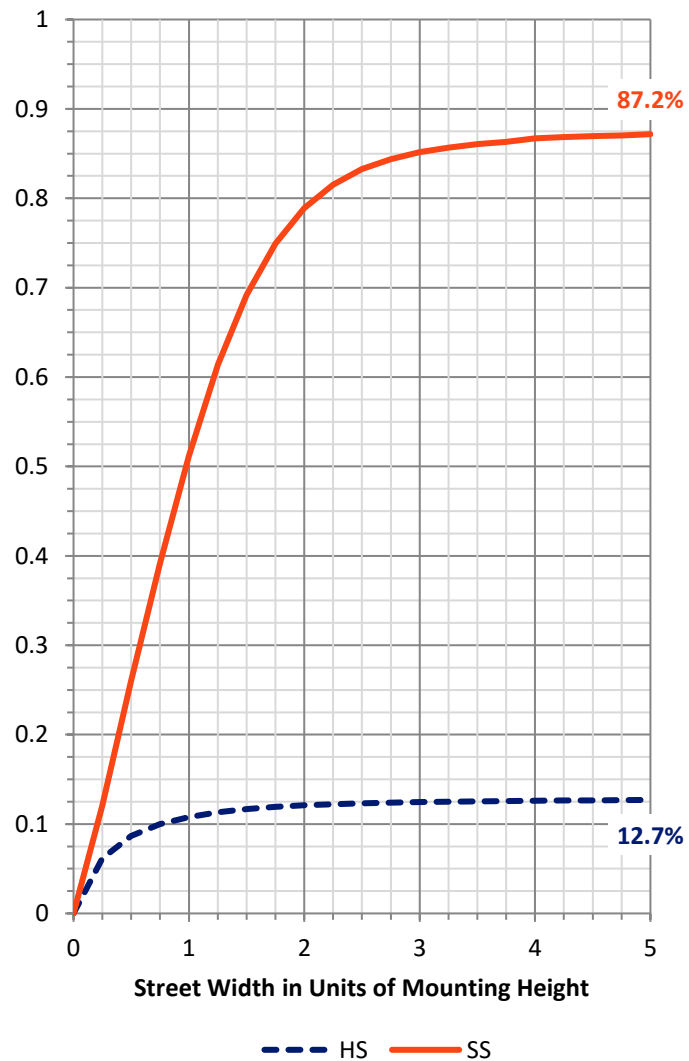
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.9	0.0	599.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4073.1	0.0	4073.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	4673.0	0.0	4673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.6
10°-20°	222.5	4.8
20°-30°	382.7	8.2
30°-40°	580.5	12.4
40°-50°	850.4	18.2
50°-60°	1073.8	23.0
60°-70°	1006.9	21.5
70°-80°	448.8	9.6
80°-90°	33.2	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°	4673.0	100.0
0°-180°	4673.0	100.0

Coefficient of Utilization



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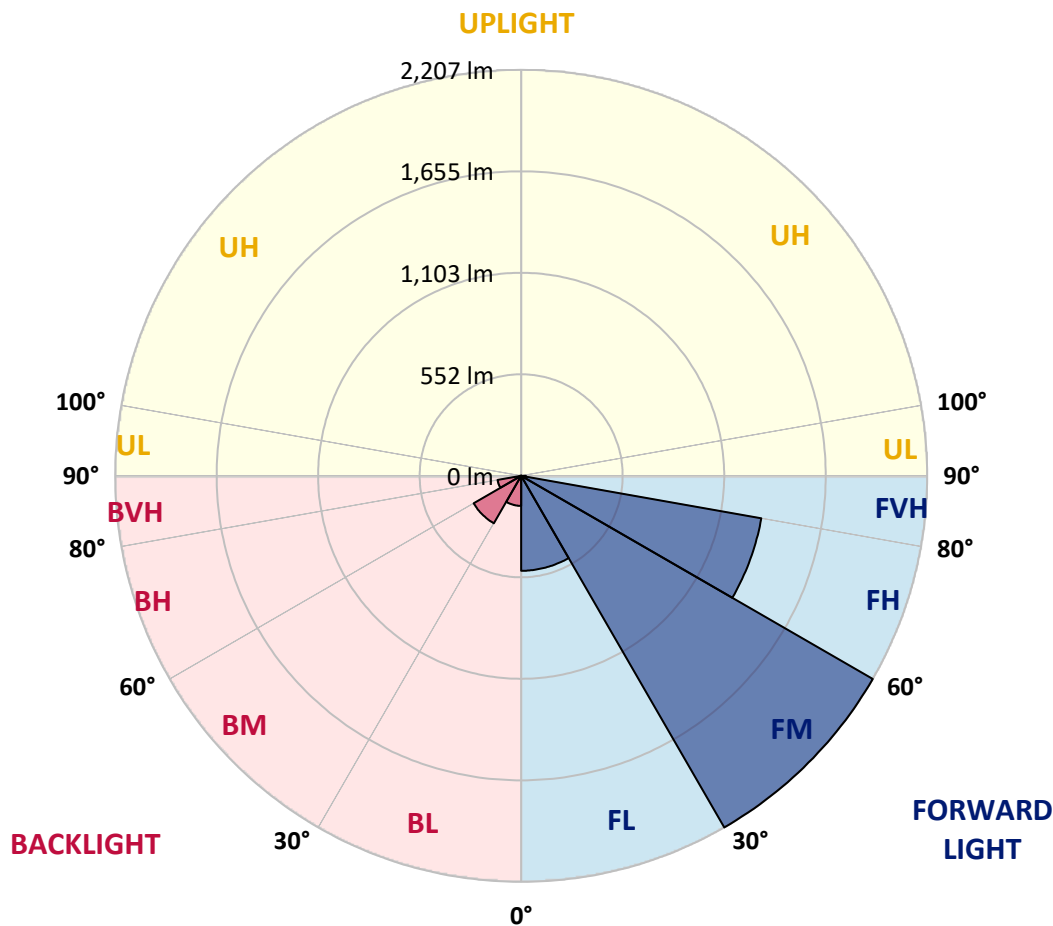
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.1	11.0			
FM	(30°-60°)	2206.8	47.2			
FH	(60°-80°)	1325.4	28.4			G1/1800
FVH	(80°-90°)	24.8	0.5			G1/100
BL	(0°-30°)	163.3	3.5	B1/500		
BM	(30°-60°)	297.9	6.4	B1/1000		
BH	(60°-80°)	130.3	2.8	B1/500		G1/500
BVH	(80°-90°)	8.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3
2.5°	918.5	915.5	913.5	902.7	902.7	887.9	888.9	875.1	858.3	831.7	803.2
5°	1005.2	1001.2	996.3	985.5	981.5	966.7	964.8	945.1	916.5	870.2	818.9
7.5°	1081.1	1077.1	1070.2	1054.4	1043.6	1025.9	1020.9	995.3	963.8	906.6	834.7
10°	1150.0	1147.1	1138.2	1118.5	1103.7	1082.0	1073.2	1038.7	999.3	936.2	847.5
12.5°	1220.0	1216.1	1204.2	1187.5	1169.7	1144.1	1133.3	1088.9	1038.7	968.7	866.2
15°	1285.0	1279.1	1270.3	1252.5	1236.8	1212.1	1200.3	1148.1	1087.0	1005.2	890.9
17.5°	1327.4	1322.5	1314.6	1304.8	1291.9	1273.2	1261.4	1210.1	1135.3	1040.6	916.5
20°	1353.0	1351.1	1348.1	1342.2	1336.3	1323.5	1314.6	1266.3	1187.5	1075.1	941.1
22.5°	1372.8	1370.8	1369.8	1369.8	1370.8	1365.9	1359.9	1318.6	1237.7	1111.6	963.8
25°	1403.3	1402.3	1400.3	1398.4	1405.3	1406.3	1404.3	1375.7	1300.8	1159.9	992.4
27.5°	1445.7	1442.7	1438.8	1436.8	1443.7	1448.6	1452.6	1432.9	1367.8	1209.2	1024.9
30°	1510.7	1501.8	1492.0	1485.1	1490.0	1497.9	1506.8	1494.9	1436.8	1270.3	1058.4
32.5°	1587.6	1576.7	1554.1	1541.3	1554.1	1560.0	1566.9	1561.0	1508.7	1336.3	1091.9
35°	1681.2	1668.4	1644.7	1626.0	1648.7	1635.9	1632.9	1627.0	1576.7	1401.3	1129.3
37.5°	1836.9	1818.2	1780.7	1739.3	1739.3	1711.8	1700.9	1683.2	1637.8	1459.5	1165.8
40°	2017.2	1992.6	1944.3	1883.2	1827.0	1769.9	1763.0	1750.2	1709.8	1526.5	1207.2
42.5°	2215.3	2168.0	2101.0	2027.1	1936.4	1871.4	1855.6	1819.2	1779.7	1594.5	1248.6
45°	2435.1	2336.5	2239.0	2201.5	2051.7	1992.6	1963.0	1897.0	1852.7	1665.4	1291.9
47.5°	2470.6	2393.7	2328.7	2322.7	2159.2	2109.9	2076.4	1981.8	1931.5	1741.3	1337.3
50°	2450.8	2404.5	2411.4	2387.8	2238.0	2205.5	2179.8	2072.4	2009.4	1814.2	1378.7
52.5°	2368.1	2393.7	2433.1	2389.7	2312.9	2286.3	2273.5	2170.0	2082.3	1881.3	1416.1
55°	2269.5	2287.3	2372.0	2425.2	2399.6	2376.0	2364.1	2283.3	2154.2	1937.4	1450.6
57.5°	2125.6	2117.8	2211.4	2419.3	2490.3	2476.5	2463.7	2394.7	2221.2	1977.8	1472.3
60°	1909.8	1893.1	2011.3	2301.1	2519.8	2541.5	2535.6	2468.6	2272.5	1976.8	1463.4
62.5°	1536.3	1577.7	1741.3	2107.9	2532.6	2587.8	2577.0	2474.5	2289.2	1919.7	1407.2
65°	1142.2	1201.3	1361.9	1841.8	2514.9	2611.5	2581.9	2377.9	2211.4	1806.4	1284.1
67.5°	822.9	875.1	992.4	1515.6	2344.4	2503.1	2468.6	2220.2	2032.0	1645.7	1113.6
70°	562.7	600.1	680.0	1103.7	2001.5	2164.1	2142.4	1984.7	1749.2	1454.5	904.7
72.5°	397.1	412.9	464.2	728.3	1520.6	1698.0	1672.3	1632.9	1405.3	1209.2	703.6
75°	297.6	307.5	335.1	471.1	1025.9	1176.6	1153.0	1175.7	1049.5	915.5	512.4
77.5°	112.3	122.2	190.2	300.6	607.0	722.3	698.7	712.5	583.4	462.2	255.2
80°	30.5	32.5	63.1	142.9	275.9	359.7	327.2	280.9	216.8	212.9	135.0
82.5°	12.8	14.8	28.6	76.9	98.5	98.5	82.8	102.5	82.8	99.5	65.0
85°	4.9	5.9	6.9	19.7	12.8	13.8	14.8	19.7	16.8	20.7	14.8
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	1.0	2.0	3.0	3.0	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°	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3	796.3
2.5°	791.3	780.5	764.7	739.1	712.5	697.7	679.0	676.0	656.3	654.3	646.5
5°	796.3	773.6	733.2	683.9	635.6	598.2	570.6	555.8	527.2	527.2	519.3
7.5°	800.2	764.7	699.7	626.8	560.7	510.5	473.0	457.3	431.6	429.7	423.7
10°	801.2	753.9	663.2	568.6	487.8	436.6	400.1	382.4	359.7	357.7	353.8
12.5°	809.1	748.0	630.7	518.4	435.6	380.4	344.9	330.1	312.4	310.4	306.5
15°	821.9	748.0	603.1	476.0	389.3	338.0	307.5	293.7	280.9	278.9	276.9
17.5°	834.7	746.0	575.5	436.6	350.8	304.5	277.9	267.1	257.2	256.2	254.2
20°	846.5	745.0	547.9	403.1	321.3	276.9	256.2	246.4	238.5	238.5	237.5
22.5°	858.3	743.0	521.3	371.5	295.6	256.2	238.5	227.6	221.7	221.7	220.7
25°	876.1	743.0	496.7	344.9	274.9	240.5	222.7	214.8	209.9	208.9	208.9
27.5°	896.8	749.0	475.0	321.3	257.2	224.7	210.9	203.0	197.1	195.1	196.1
30°	919.4	753.9	455.3	300.6	240.5	212.9	198.1	190.2	184.3	182.3	183.3
32.5°	942.1	759.8	437.5	281.8	223.7	202.0	187.2	178.4	172.5	171.5	171.5
35°	966.7	765.7	419.8	266.1	209.9	191.2	177.4	167.5	163.6	161.6	162.6
37.5°	991.4	775.6	403.1	251.3	200.0	181.3	168.5	158.7	155.7	154.7	154.7
40°	1020.9	790.3	396.2	241.4	191.2	172.5	161.6	151.8	148.8	148.8	148.8
42.5°	1045.6	802.2	390.2	230.6	184.3	164.6	154.7	146.8	144.9	143.9	144.9
45°	1070.2	813.0	382.4	220.7	175.4	156.7	148.8	140.9	139.0	139.0	139.0
47.5°	1094.9	818.9	371.5	210.9	167.5	149.8	142.9	136.0	134.0	134.0	134.0
50°	1114.6	823.8	355.8	200.0	158.7	143.9	137.0	130.1	128.1	128.1	128.1
52.5°	1134.3	824.8	339.0	187.2	149.8	137.0	131.1	124.2	122.2	121.2	121.2
55°	1152.0	823.8	319.3	172.5	139.9	129.1	124.2	118.3	114.3	110.4	112.3
57.5°	1164.8	822.9	296.6	157.7	130.1	121.2	119.2	111.4	103.5	93.6	95.6
60°	1159.9	812.0	272.0	139.0	119.2	113.3	113.3	102.5	88.7	83.8	84.7
62.5°	1128.4	781.5	246.4	119.2	108.4	105.4	104.5	92.6	81.8	76.9	77.9
65°	1033.8	704.6	208.9	101.5	97.6	96.6	96.6	85.7	75.9	70.0	71.0
67.5°	889.9	591.3	170.5	85.7	86.7	88.7	88.7	78.8	69.0	63.1	64.1
70°	713.5	462.2	136.0	73.9	74.9	77.9	79.8	71.0	62.1	56.2	56.2
72.5°	537.1	350.8	109.4	62.1	67.0	67.0	70.0	63.1	54.2	48.3	49.3
75°	389.3	251.3	86.7	52.2	58.1	57.2	57.2	53.2	46.3	42.4	42.4
77.5°	184.3	132.1	69.0	37.4	45.3	44.3	45.3	42.4	39.4	35.5	36.5
80°	90.7	65.0	44.3	26.6	31.5	32.5	35.5	33.5	32.5	29.6	29.6
82.5°	43.4	25.6	20.7	18.7	21.7	22.7	24.6	24.6	25.6	23.7	23.7
85°	11.8	6.9	8.9	11.8	13.8	14.8	16.8	17.7	17.7	16.8	17.7
87.5°	3.0	3.0	3.9	5.9	6.9	7.9	8.9	8.9	3.9	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)