

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: P799094

Luminaire Tested: **ARCH1-60-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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



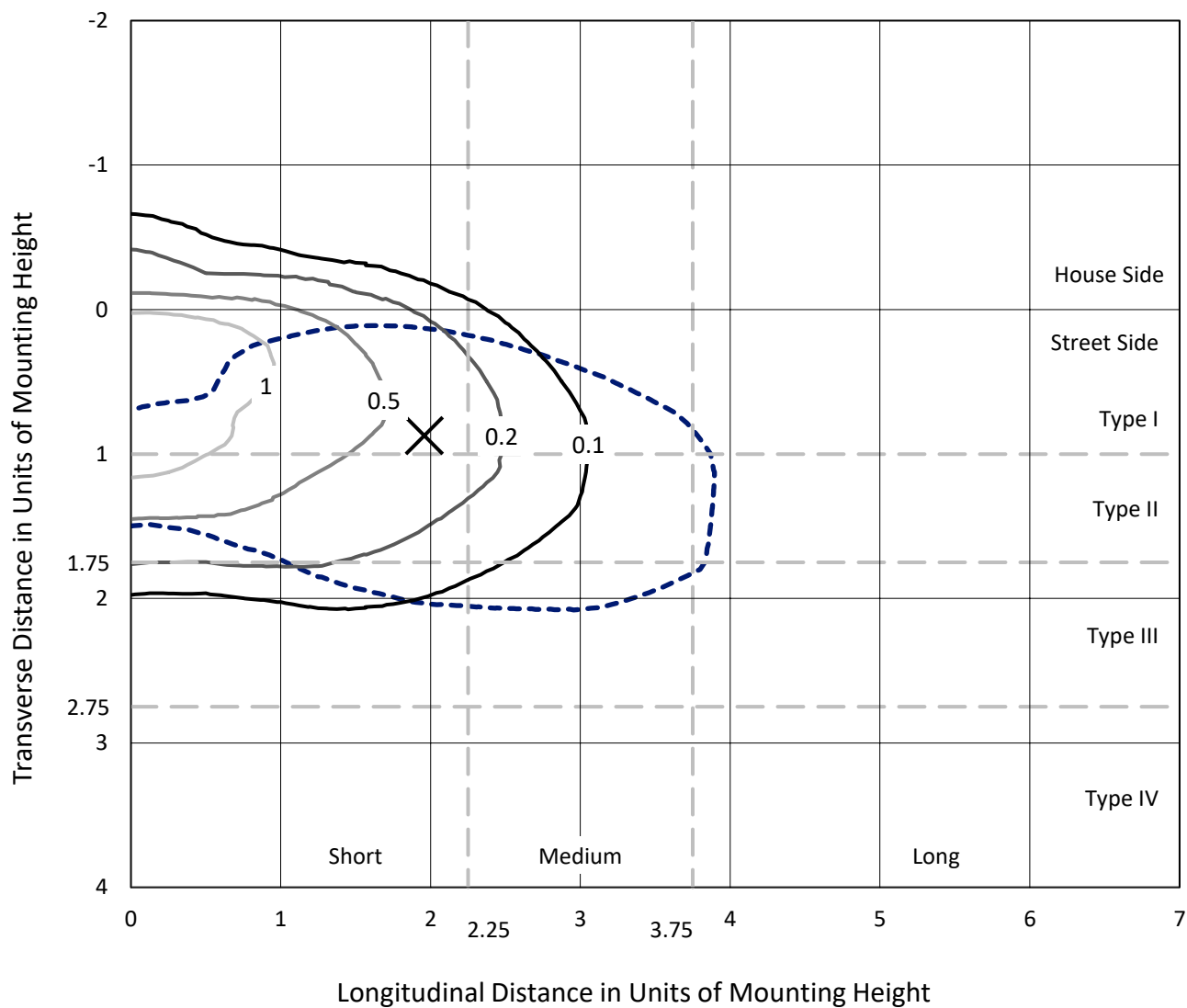
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

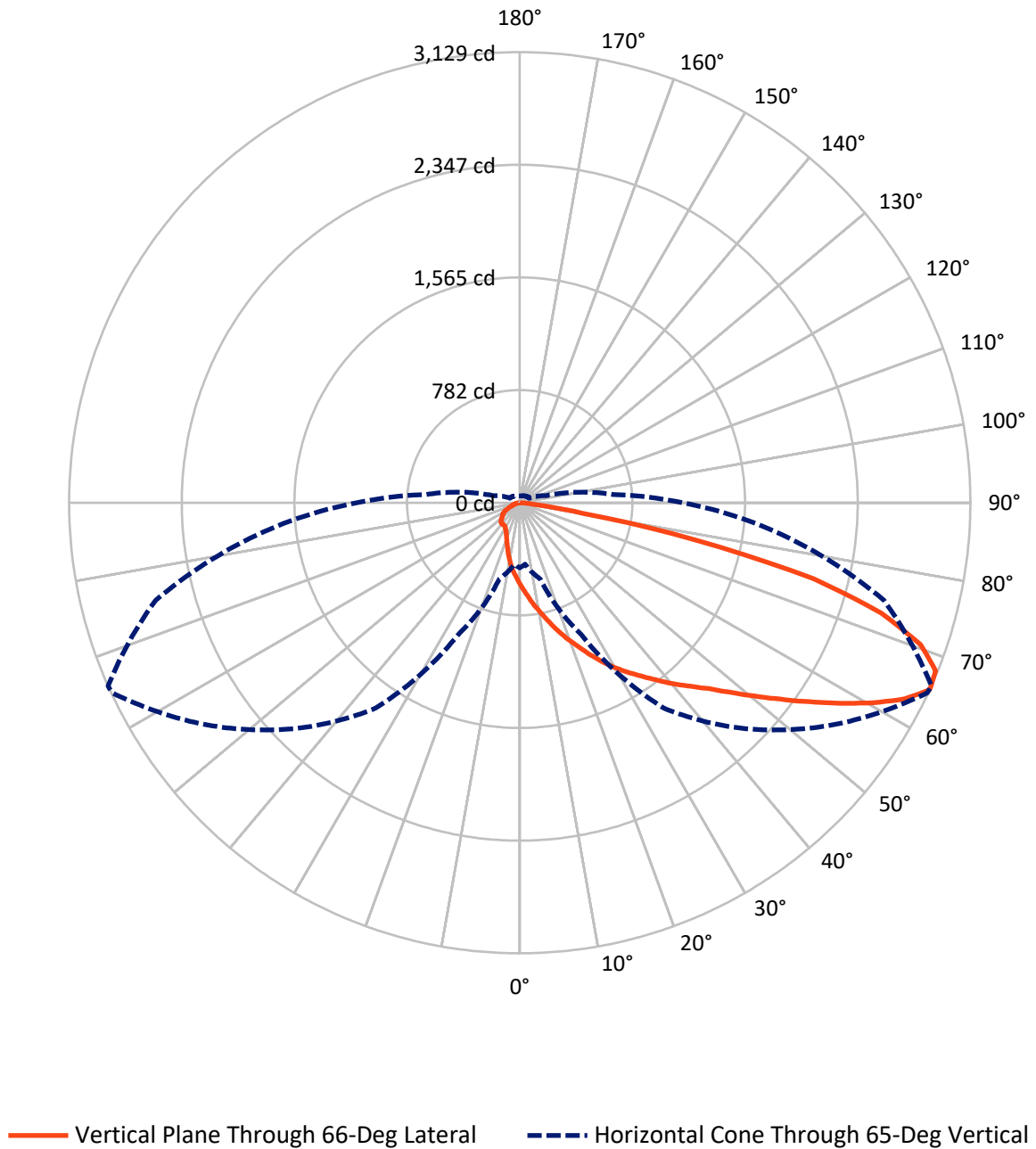


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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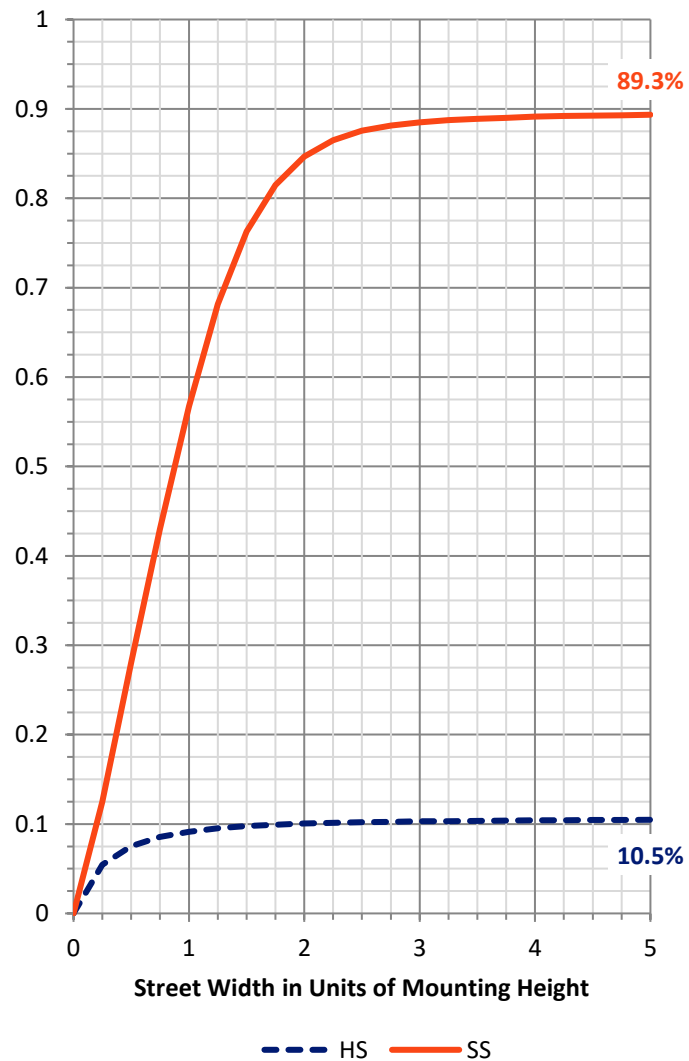
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.6	0.0	455.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3851.4	0.0	3851.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	4307.0	0.0	4307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.3
10°-20°	183.4	4.3
20°-30°	331.8	7.7
30°-40°	518.8	12.0
40°-50°	787.0	18.3
50°-60°	999.9	23.2
60°-70°	934.3	21.7
70°-80°	464.4	10.8
80°-90°	31.2	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°	4307.0	100.0
0°-180°	4307.0	100.0

Coefficient of Utilization



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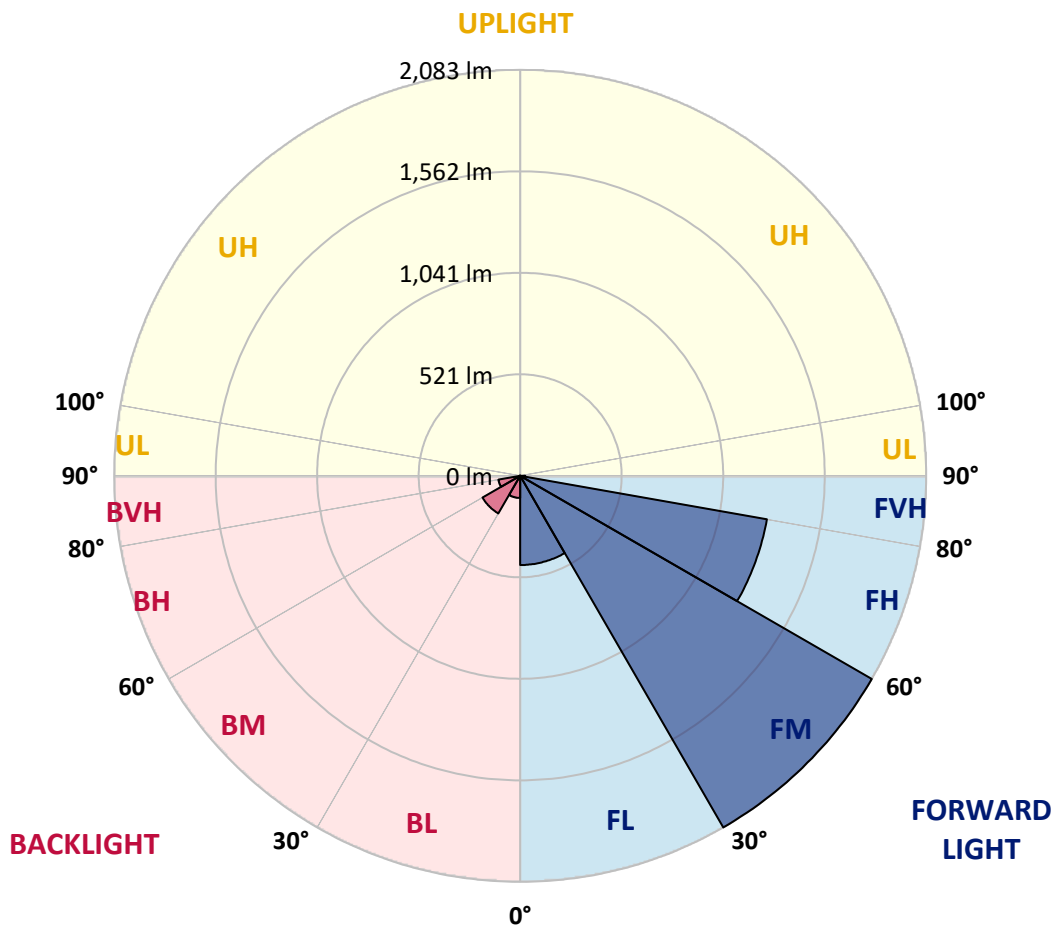
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.6	10.6			
FM	(30°-60°)	2082.9	48.4			
FH	(60°-80°)	1285.2	29.8			G1/1800
FVH	(80°-90°)	25.7	0.6			G1/100
BL	(0°-30°)	113.8	2.6	B1/500		
BM	(30°-60°)	222.8	5.2	B1/1000		
BH	(60°-80°)	113.4	2.6	B1/500		G1/500
BVH	(80°-90°)	5.5	0.1			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°	45°	55°	65°	66°	75°	85°
0°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
2.5°	665.8	671.2	673.9	674.8	654.0	645.0	636.0	615.2	610.7	598.9	583.6
5°	783.2	790.4	788.6	785.0	759.7	730.8	707.3	668.5	662.1	634.1	599.8
7.5°	898.8	905.1	903.3	889.8	861.8	821.1	782.3	725.4	716.3	671.2	616.1
10°	995.5	1000.9	1000.0	986.4	953.0	903.3	856.4	780.5	769.6	705.5	629.6
12.5°	1075.0	1082.2	1081.3	1072.3	1042.5	988.3	935.0	843.7	830.2	747.1	648.6
15°	1137.3	1146.3	1146.3	1142.7	1121.9	1076.8	1016.3	913.3	897.0	794.9	672.1
17.5°	1175.2	1182.5	1188.8	1195.1	1180.7	1146.3	1091.2	982.8	965.7	841.9	696.5
20°	1195.1	1202.3	1206.9	1220.4	1223.1	1206.0	1162.6	1051.5	1033.4	895.2	724.5
22.5°	1227.6	1234.0	1234.9	1246.6	1252.0	1256.5	1229.4	1119.2	1104.8	953.9	756.1
25°	1281.8	1289.1	1286.4	1291.8	1292.7	1298.1	1295.4	1196.9	1182.5	1020.8	794.0
27.5°	1351.4	1360.4	1358.6	1353.2	1345.1	1340.6	1352.3	1275.5	1262.0	1087.6	832.9
30°	1426.4	1437.2	1434.5	1423.7	1402.0	1383.0	1399.3	1349.6	1336.9	1156.3	876.2
32.5°	1502.3	1514.9	1514.0	1495.9	1458.9	1426.4	1450.8	1419.1	1410.1	1230.3	923.2
35°	1551.9	1568.2	1566.4	1555.6	1507.7	1479.7	1509.5	1490.5	1484.2	1320.7	991.0
37.5°	1632.3	1649.5	1634.1	1607.0	1551.9	1537.5	1573.6	1570.9	1566.4	1416.4	1062.3
40°	1827.5	1852.8	1812.1	1701.0	1610.7	1598.0	1649.5	1660.3	1655.8	1511.3	1126.5
42.5°	2031.6	2069.6	2006.3	1852.8	1717.3	1671.2	1732.6	1748.0	1742.5	1592.6	1184.3
45°	2155.4	2171.6	2108.4	1989.2	1906.0	1759.7	1821.1	1846.4	1841.9	1690.1	1258.4
47.5°	2256.5	2250.2	2178.0	2097.6	2112.9	1884.4	1921.4	1971.1	1967.5	1797.6	1339.7
50°	2278.2	2263.8	2234.9	2184.3	2224.9	2010.8	2027.1	2112.9	2109.3	1916.9	1421.9
52.5°	2125.6	2106.6	2185.2	2227.6	2214.1	2103.0	2143.6	2268.3	2266.5	2046.1	1500.4
55°	1744.4	1729.0	1940.4	2159.9	2202.3	2168.0	2272.8	2430.0	2439.9	2183.4	1571.8
57.5°	1372.2	1355.9	1563.7	1990.1	2159.0	2227.6	2423.7	2615.2	2627.8	2332.4	1639.6
60°	1093.9	1069.6	1228.5	1722.7	2077.7	2273.7	2569.1	2818.4	2820.2	2468.8	1681.1
62.5°	743.4	716.3	892.5	1383.9	1941.3	2280.9	2681.1	2993.7	3000.9	2570.9	1688.3
65°	451.7	429.1	548.3	1010.8	1739.8	2219.5	2682.9	3122.8	3129.2	2617.9	1645.0
67.5°	262.0	252.9	313.5	629.6	1405.6	2054.2	2570.0	3103.0	3114.7	2598.0	1546.5
70°	152.7	151.8	174.3	311.7	991.9	1726.3	2318.0	2935.9	2953.0	2494.1	1395.7
72.5°	112.0	113.8	122.9	167.1	574.5	1243.0	1963.0	2599.8	2626.0	2290.9	1180.7
75°	88.5	89.4	97.6	113.8	301.7	702.8	1470.6	2086.7	2107.5	1928.6	922.3
77.5°	65.9	67.8	74.1	80.4	140.0	322.5	827.5	1285.5	1251.1	1058.7	445.3
80°	47.9	52.4	55.1	57.8	74.1	124.7	248.4	448.1	444.4	462.5	210.5
82.5°	30.7	34.3	37.0	38.8	44.3	59.6	74.1	100.3	108.4	179.8	84.0
85°	13.6	15.4	17.2	20.8	19.0	20.8	30.7	19.9	17.2	27.1	15.4
87.5°	0.0	0.0	2.7	4.5	3.6	1.8	5.4	3.6	2.7	2.7	2.7
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°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
2.5°	575.4	565.5	544.7	524.8	513.1	497.7	484.2	471.5	470.6	467.0	460.7
5°	582.7	563.7	524.8	487.8	459.8	430.0	404.7	384.8	377.6	372.2	364.9
7.5°	589.9	560.1	502.3	448.1	403.8	362.2	332.4	305.3	297.2	290.0	285.5
10°	592.6	553.7	476.1	403.8	346.0	301.7	270.1	250.2	243.0	239.4	236.7
12.5°	600.7	550.1	451.7	362.2	295.4	254.7	232.2	220.4	217.7	215.0	212.3
15°	611.6	550.1	427.3	321.6	255.6	223.1	209.6	201.4	199.6	198.7	196.9
17.5°	623.3	550.1	403.8	287.3	226.7	202.3	192.4	187.9	187.0	186.1	185.2
20°	639.6	551.0	378.5	257.5	206.0	187.0	178.9	173.4	172.5	171.6	171.6
22.5°	655.8	552.8	354.1	234.9	192.4	175.2	165.3	159.9	158.1	158.1	158.1
25°	676.6	558.3	331.5	215.9	180.7	164.4	151.8	147.2	146.3	146.3	145.4
27.5°	701.0	564.6	311.7	201.4	168.9	151.8	139.1	134.6	132.8	132.8	131.9
30°	727.2	570.9	295.4	190.6	157.2	139.1	127.4	122.0	120.1	121.0	120.1
32.5°	756.1	579.9	282.7	183.4	146.3	128.3	117.4	111.1	110.2	110.2	109.3
35°	804.9	605.2	280.9	179.8	137.3	120.1	109.3	103.0	102.1	102.1	101.2
37.5°	857.3	634.1	289.1	178.0	130.1	112.9	103.0	96.7	95.8	95.8	95.8
40°	901.5	655.8	298.1	178.0	125.6	106.6	97.6	92.1	92.1	92.1	92.1
42.5°	931.3	657.6	296.3	178.0	122.0	102.1	93.9	88.5	88.5	89.4	88.5
45°	975.6	666.7	289.1	175.2	119.2	98.5	90.3	85.8	84.9	85.8	85.8
47.5°	1028.0	682.9	281.8	164.4	118.3	94.9	87.6	82.2	81.3	82.2	81.3
50°	1077.7	697.4	278.2	150.0	116.5	91.2	84.0	78.6	77.7	78.6	77.7
52.5°	1119.2	703.7	271.9	140.0	112.0	87.6	80.4	75.0	73.2	74.1	74.1
55°	1152.7	701.9	262.9	131.9	103.9	84.0	75.9	71.4	68.7	68.7	67.8
57.5°	1183.4	702.8	254.7	123.8	94.9	78.6	72.3	66.8	63.2	62.3	61.4
60°	1195.1	698.3	240.3	112.9	85.8	74.1	67.8	61.4	57.8	56.9	56.0
62.5°	1178.9	682.0	221.3	93.9	77.7	68.7	63.2	56.9	53.3	52.4	51.5
65°	1132.8	651.3	192.4	74.1	70.5	62.3	57.8	53.3	48.8	47.0	46.1
67.5°	1054.2	607.0	156.3	59.6	62.3	56.9	54.2	48.8	43.4	41.6	40.7
70°	942.2	548.3	117.4	50.6	55.1	50.6	48.8	43.4	38.8	37.0	36.1
72.5°	785.0	453.5	82.2	43.4	47.9	44.3	42.5	38.8	34.3	31.6	31.6
75°	593.5	325.2	54.2	37.0	39.7	37.9	35.2	32.5	29.8	28.0	27.1
77.5°	255.6	126.5	33.4	28.0	32.5	31.6	28.0	26.2	25.3	23.5	23.5
80°	110.2	51.5	20.8	20.8	23.5	22.6	21.7	19.9	19.9	19.0	18.1
82.5°	40.7	20.8	12.6	15.4	17.2	15.4	15.4	15.4	15.4	14.5	14.5
85°	9.9	6.3	6.3	9.0	9.9	9.0	9.9	9.0	9.0	9.0	8.1
87.5°	2.7	2.7	3.6	3.6	3.6	3.6	3.6	2.7	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)