

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: P836598

Luminaire Tested: **ARCH3-50-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5352 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.6
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

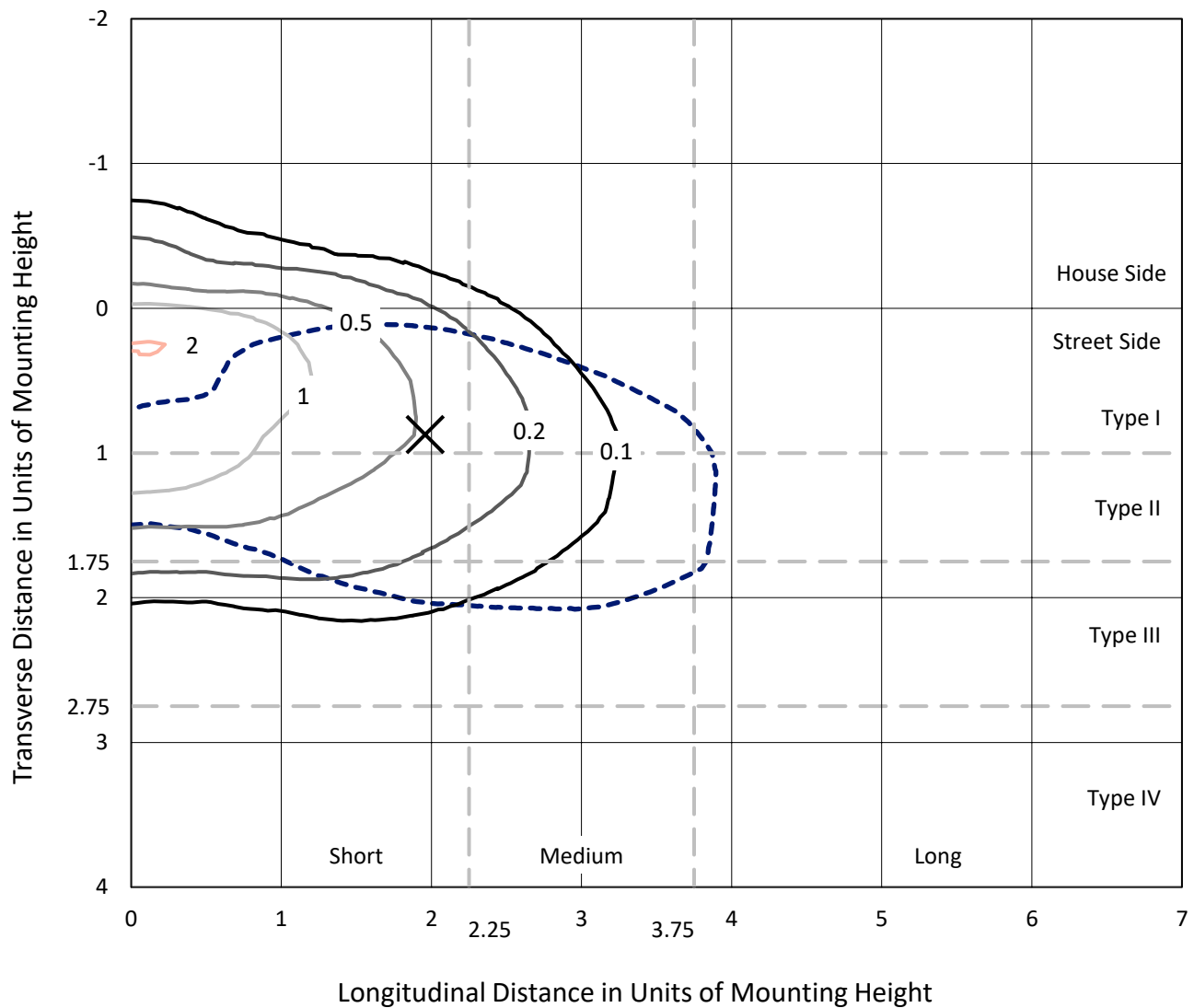


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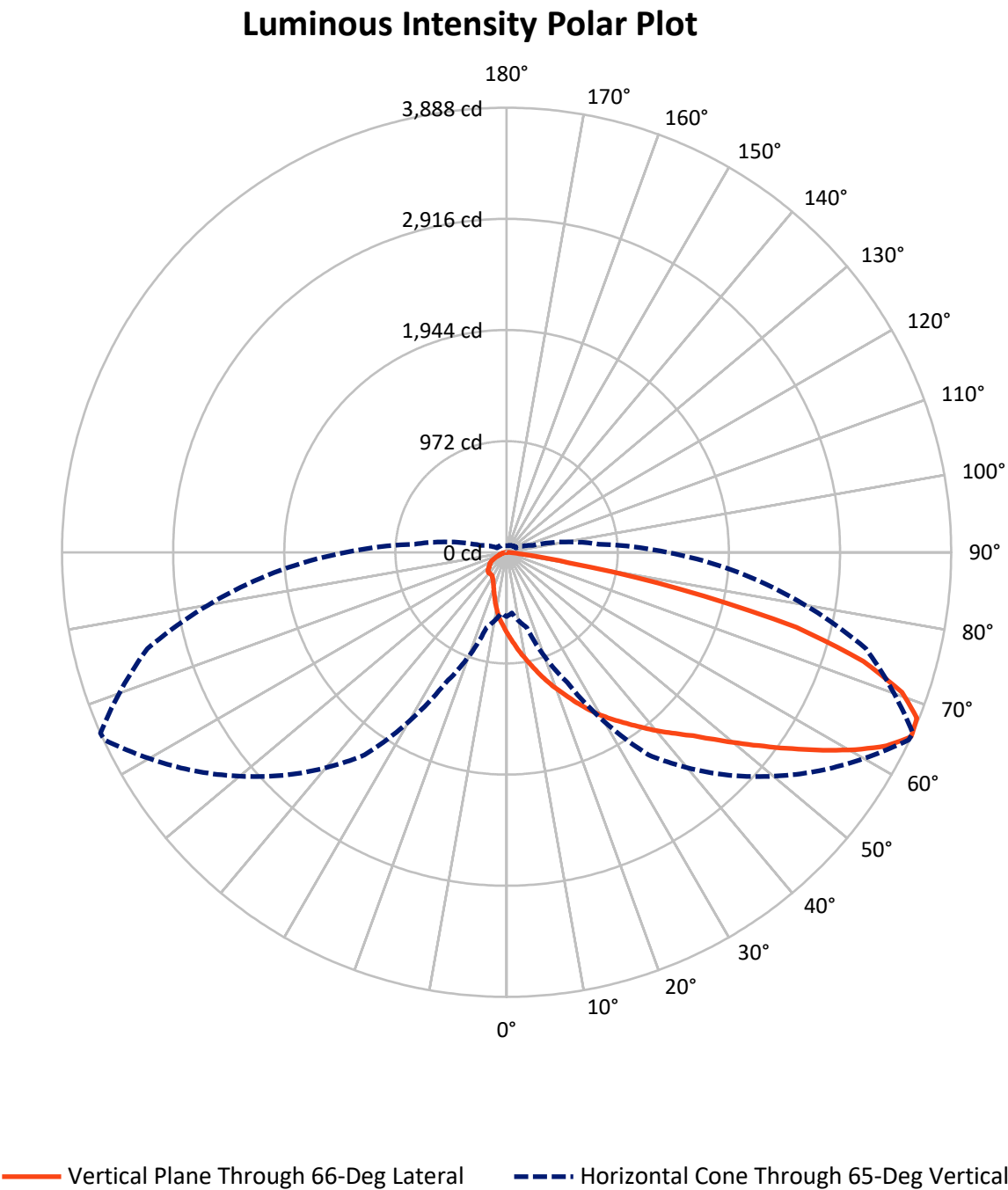
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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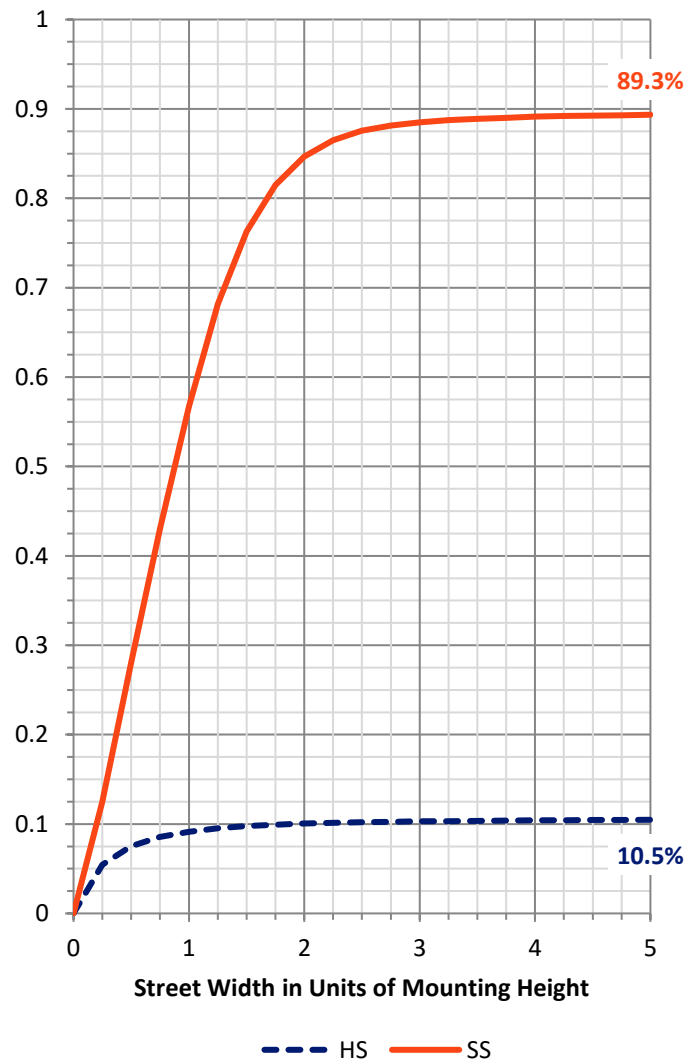
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.1	0.0	566.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4785.9	0.0	4785.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	5352.0	0.0	5352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.3
10°-20°	227.9	4.3
20°-30°	412.3	7.7
30°-40°	644.7	12.0
40°-50°	978.0	18.3
50°-60°	1242.5	23.2
60°-70°	1161.0	21.7
70°-80°	577.0	10.8
80°-90°	38.8	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°	5352.0	100.0
0°-180°	5352.0	100.0

Coefficient of Utilization



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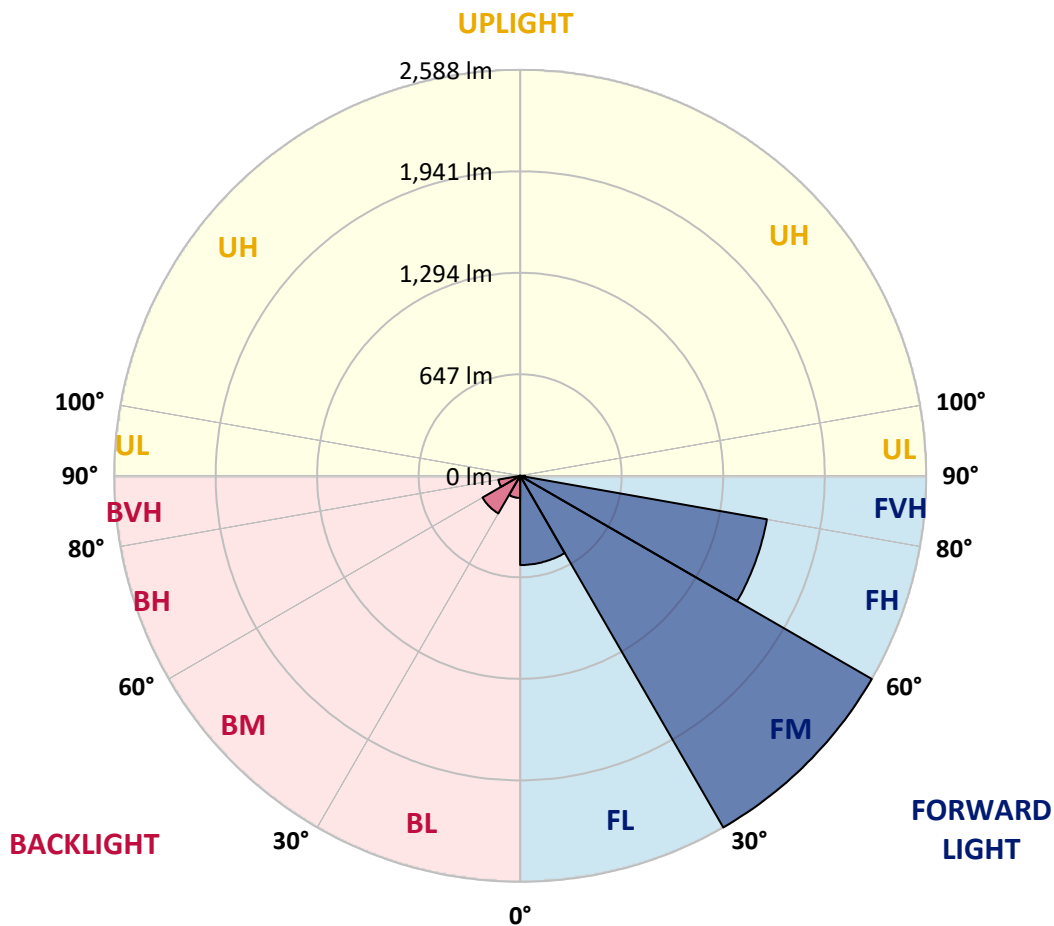
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.7	10.6			
FM	(30°-60°)	2588.3	48.4			
FH	(60°-80°)	1597.1	29.8			G1/1800
FVH	(80°-90°)	31.9	0.6			G1/100
BL	(0°-30°)	141.4	2.6	B1/500		
BM	(30°-60°)	276.9	5.2	B1/1000		
BH	(60°-80°)	141.0	2.6	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	827.3	834.0	837.4	838.5	812.7	801.5	790.3	764.4	758.8	744.2	725.1
5°	973.2	982.2	980.0	975.5	944.0	908.1	878.9	830.7	822.8	788.0	745.4
7.5°	1116.9	1124.8	1122.5	1105.7	1070.9	1020.4	972.1	901.4	890.2	834.0	765.6
10°	1237.0	1243.7	1242.6	1225.8	1184.3	1122.5	1064.1	969.9	956.4	876.7	782.4
12.5°	1335.8	1344.8	1343.7	1332.4	1295.4	1228.0	1161.8	1048.4	1031.6	928.3	806.0
15°	1413.2	1424.5	1424.5	1420.0	1394.2	1338.0	1262.8	1134.9	1114.7	987.8	835.2
17.5°	1460.4	1469.4	1477.2	1485.1	1467.1	1424.5	1356.0	1221.3	1200.0	1046.2	865.5
20°	1485.1	1494.1	1499.7	1516.5	1519.9	1498.6	1444.7	1306.6	1284.2	1112.4	900.3
22.5°	1525.5	1533.4	1534.5	1549.1	1555.8	1561.4	1527.7	1390.8	1372.8	1185.4	939.5
25°	1592.9	1601.8	1598.5	1605.2	1606.3	1613.1	1609.7	1487.3	1469.4	1268.4	986.7
27.5°	1679.3	1690.5	1688.3	1681.5	1671.4	1665.8	1680.4	1585.0	1568.2	1351.5	1035.0
30°	1772.5	1785.9	1782.6	1769.1	1742.1	1718.6	1738.8	1677.0	1661.3	1436.8	1088.8
32.5°	1866.7	1882.5	1881.3	1858.9	1812.9	1772.5	1802.8	1763.5	1752.2	1528.9	1147.2
35°	1928.5	1948.7	1946.4	1933.0	1873.5	1838.7	1875.7	1852.2	1844.3	1641.1	1231.4
37.5°	2028.4	2049.7	2030.6	1997.0	1928.5	1910.5	1955.4	1952.1	1946.4	1760.1	1320.1
40°	2270.9	2302.3	2251.8	2113.7	2001.4	1985.7	2049.7	2063.2	2057.6	1878.0	1399.8
42.5°	2524.5	2571.7	2493.1	2302.3	2133.9	2076.7	2153.0	2172.1	2165.3	1979.0	1471.6
45°	2678.3	2698.5	2620.0	2471.8	2368.5	2186.7	2263.0	2294.4	2288.8	2100.2	1563.7
47.5°	2804.0	2796.2	2706.4	2606.5	2625.6	2341.6	2387.6	2449.3	2444.8	2233.8	1664.7
50°	2831.0	2813.0	2777.1	2714.2	2764.8	2498.7	2518.9	2625.6	2621.1	2382.0	1766.8
52.5°	2641.3	2617.7	2715.4	2768.1	2751.3	2613.2	2663.7	2818.6	2816.4	2542.5	1864.5
55°	2167.6	2148.5	2411.2	2683.9	2736.7	2694.0	2824.3	3019.6	3031.9	2713.1	1953.2
57.5°	1705.1	1684.9	1943.1	2472.9	2682.8	2768.1	3011.7	3249.7	3265.4	2898.3	2037.4
60°	1359.4	1329.1	1526.6	2140.6	2581.8	2825.4	3192.4	3502.3	3504.5	3067.8	2089.0
62.5°	923.8	890.2	1109.0	1719.7	2412.3	2834.4	3331.6	3720.0	3729.0	3194.7	2098.0
65°	561.3	533.2	681.4	1256.1	2162.0	2758.0	3333.9	3880.5	3888.4	3253.1	2044.1
67.5°	325.5	314.3	389.5	782.4	1746.6	2552.6	3193.6	3855.8	3870.4	3228.4	1921.7
70°	189.7	188.6	216.6	387.3	1232.5	2145.1	2880.4	3648.2	3669.5	3099.3	1734.3
72.5°	139.2	141.4	152.7	207.7	713.9	1544.6	2439.2	3230.6	3263.2	2846.7	1467.1
75°	110.0	111.1	121.2	141.4	374.9	873.3	1827.5	2593.0	2618.8	2396.6	1146.1
77.5°	81.9	84.2	92.0	99.9	174.0	400.7	1028.2	1597.3	1554.7	1315.6	553.4
80°	59.5	65.1	68.5	71.8	92.0	154.9	308.7	556.8	552.3	574.7	261.5
82.5°	38.2	42.7	46.0	48.3	55.0	74.1	92.0	124.6	134.7	223.4	104.4
85°	16.8	19.1	21.3	25.8	23.6	25.8	38.2	24.7	21.3	33.7	19.1
87.5°	0.0	0.0	3.4	5.6	4.5	2.2	6.7	4.5	3.4	3.4	3.4
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°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	715.0	702.7	676.9	652.2	637.6	618.5	601.7	586.0	584.8	580.3	572.5
5°	724.0	700.5	652.2	606.2	571.4	534.3	502.9	478.2	469.2	462.5	453.5
7.5°	733.0	696.0	624.1	556.8	501.8	450.1	413.1	379.4	369.3	360.3	354.7
10°	736.4	688.1	591.6	501.8	429.9	374.9	335.6	310.9	302.0	297.5	294.1
12.5°	746.5	683.6	561.3	450.1	367.1	316.5	288.5	273.9	270.5	267.2	263.8
15°	759.9	683.6	531.0	399.6	317.7	277.3	260.4	250.3	248.1	247.0	244.7
17.5°	774.5	683.6	501.8	357.0	281.8	251.4	239.1	233.5	232.4	231.2	230.1
20°	794.7	684.7	470.3	319.9	255.9	232.4	222.3	215.5	214.4	213.3	213.3
22.5°	814.9	687.0	440.0	291.9	239.1	217.8	205.4	198.7	196.4	196.4	196.4
25°	840.8	693.7	412.0	268.3	224.5	204.3	188.6	183.0	181.8	181.8	180.7
27.5°	871.1	701.6	387.3	250.3	209.9	188.6	172.9	167.3	165.0	165.0	163.9
30°	903.6	709.4	367.1	236.9	195.3	172.9	158.3	151.5	149.3	150.4	149.3
32.5°	939.5	720.7	351.3	227.9	181.8	159.4	145.9	138.1	136.9	136.9	135.8
35°	1000.2	752.1	349.1	223.4	170.6	149.3	135.8	128.0	126.8	126.8	125.7
37.5°	1065.3	788.0	359.2	221.1	161.6	140.3	128.0	120.1	119.0	119.0	119.0
40°	1120.3	814.9	370.4	221.1	156.0	132.5	121.2	114.5	114.5	114.5	114.5
42.5°	1157.3	817.2	368.2	221.1	151.5	126.8	116.7	110.0	110.0	111.1	110.0
45°	1212.3	828.4	359.2	217.8	148.2	122.4	112.3	106.6	105.5	106.6	106.6
47.5°	1277.4	848.6	350.2	204.3	147.0	117.9	108.9	102.1	101.0	102.1	101.0
50°	1339.2	866.6	345.7	186.3	144.8	113.4	104.4	97.7	96.5	97.7	96.5
52.5°	1390.8	874.4	337.9	174.0	139.2	108.9	99.9	93.2	90.9	92.0	92.0
55°	1432.3	872.2	326.7	163.9	129.1	104.4	94.3	88.7	85.3	85.3	84.2
57.5°	1470.5	873.3	316.5	153.8	117.9	97.7	89.8	83.1	78.6	77.5	76.3
60°	1485.1	867.7	298.6	140.3	106.6	92.0	84.2	76.3	71.8	70.7	69.6
62.5°	1464.9	847.5	275.0	116.7	96.5	85.3	78.6	70.7	66.2	65.1	64.0
65°	1407.6	809.3	239.1	92.0	87.6	77.5	71.8	66.2	60.6	58.4	57.2
67.5°	1310.0	754.3	194.2	74.1	77.5	70.7	67.4	60.6	53.9	51.6	50.5
70°	1170.8	681.4	145.9	62.9	68.5	62.9	60.6	53.9	48.3	46.0	44.9
72.5°	975.5	563.5	102.1	53.9	59.5	55.0	52.8	48.3	42.7	39.3	39.3
75°	737.5	404.1	67.4	46.0	49.4	47.1	43.8	40.4	37.0	34.8	33.7
77.5°	317.7	157.2	41.5	34.8	40.4	39.3	34.8	32.6	31.4	29.2	29.2
80°	136.9	64.0	25.8	25.8	29.2	28.1	26.9	24.7	24.7	23.6	22.5
82.5°	50.5	25.8	15.7	19.1	21.3	19.1	19.1	19.1	19.1	18.0	18.0
85°	12.3	7.9	7.9	11.2	12.3	11.2	12.3	11.2	11.2	11.2	10.1
87.5°	3.4	3.4	4.5	4.5	4.5	4.5	4.5	3.4	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)