

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: P348776

Luminaire Tested: **ARCH-N-PA1-50-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-750-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5377 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

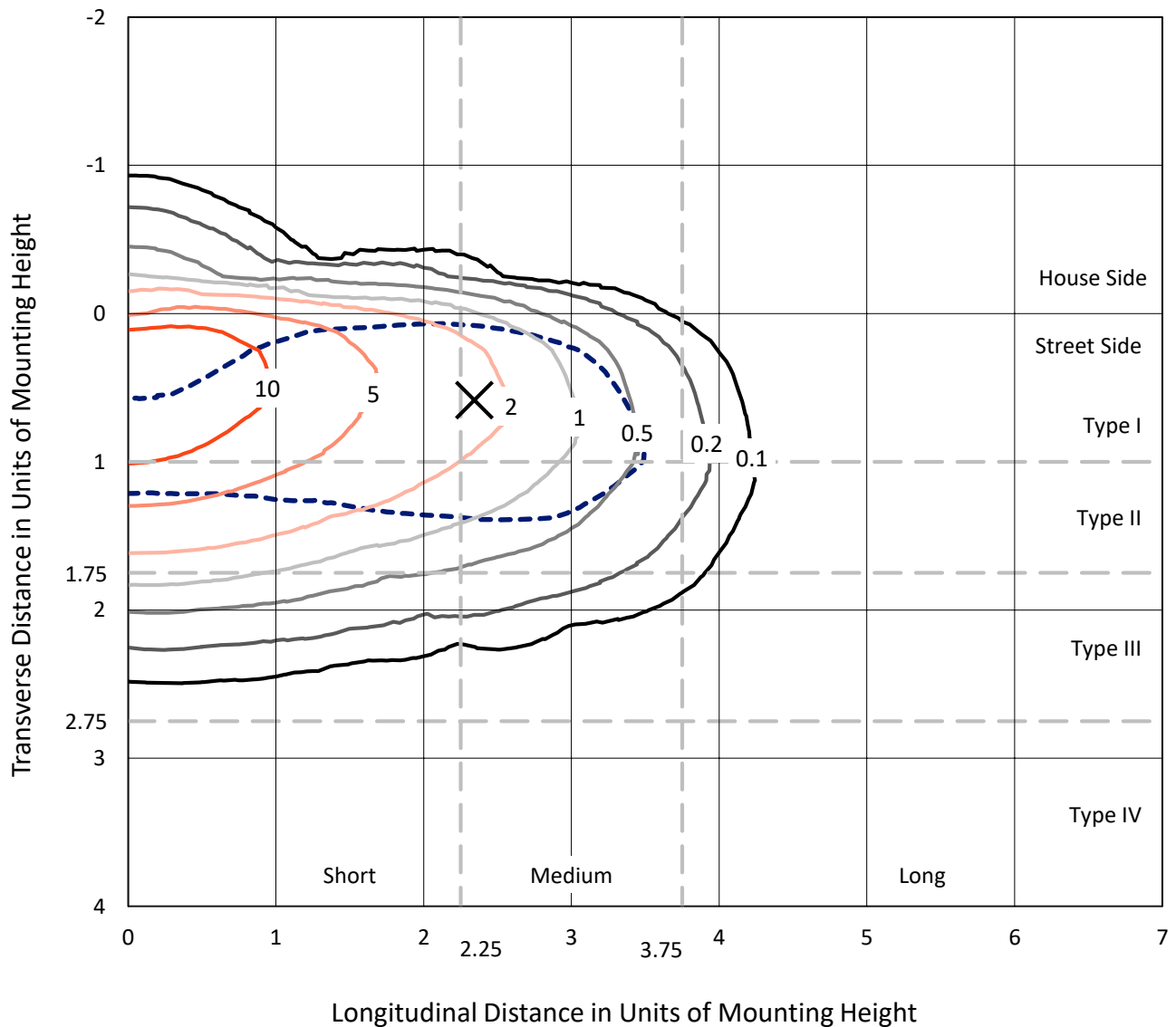
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348776
 CATALOG NUMBER: ARCH-N-PA1-50-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

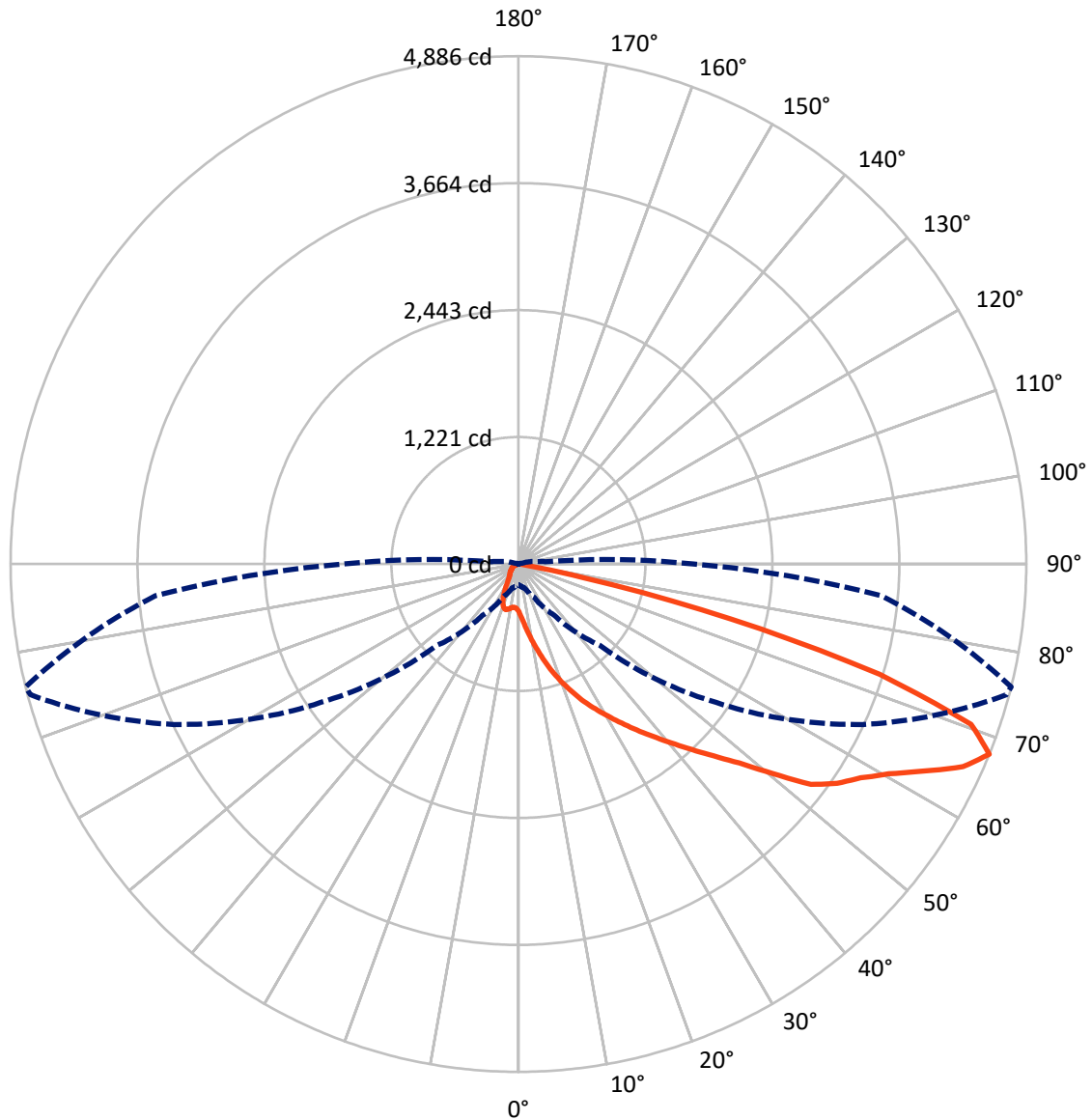
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P348776
CATALOG NUMBER: ARCH-N-PA1-50-750-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P348776

CATALOG NUMBER: ARCH-N-PA1-50-750-U-T2R-HSS

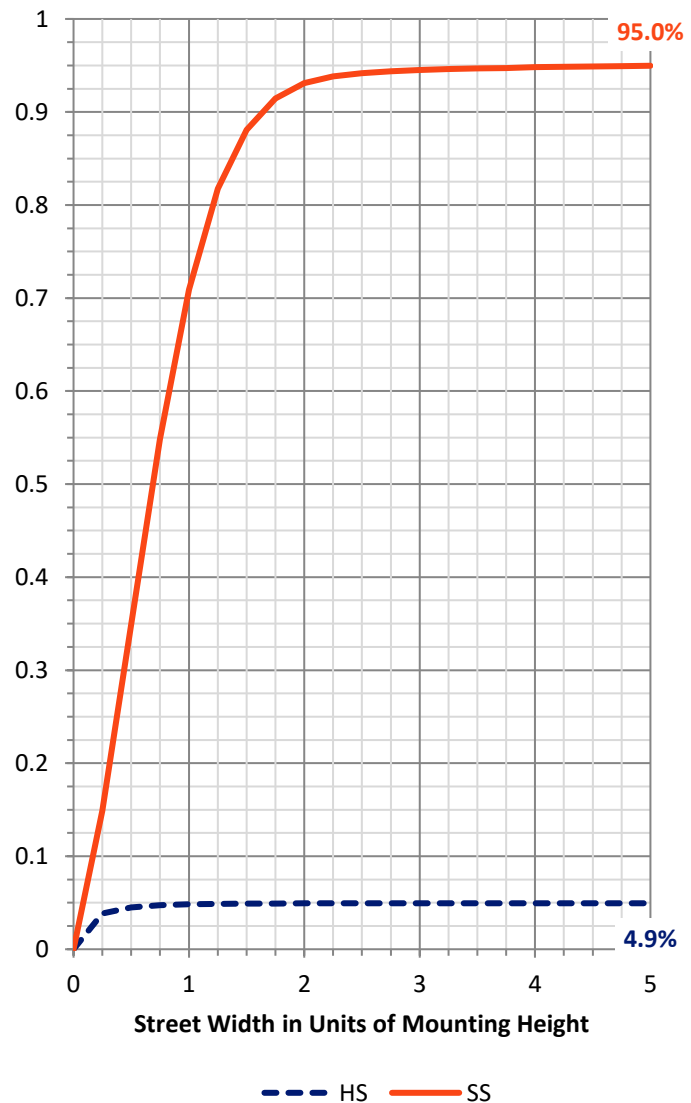
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	267.0	0.0	267.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5110.0	0.0	5110.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	5377.0	0.0	5377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	1.1
10°-20°	224.8	4.2
20°-30°	457.5	8.5
30°-40°	794.0	14.8
40°-50°	1121.9	20.9
50°-60°	1272.2	23.7
60°-70°	1055.2	19.6
70°-80°	382.2	7.1
80°-90°	12.4	0.2
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°	5377.0	100.0
0°-180°	5377.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348776

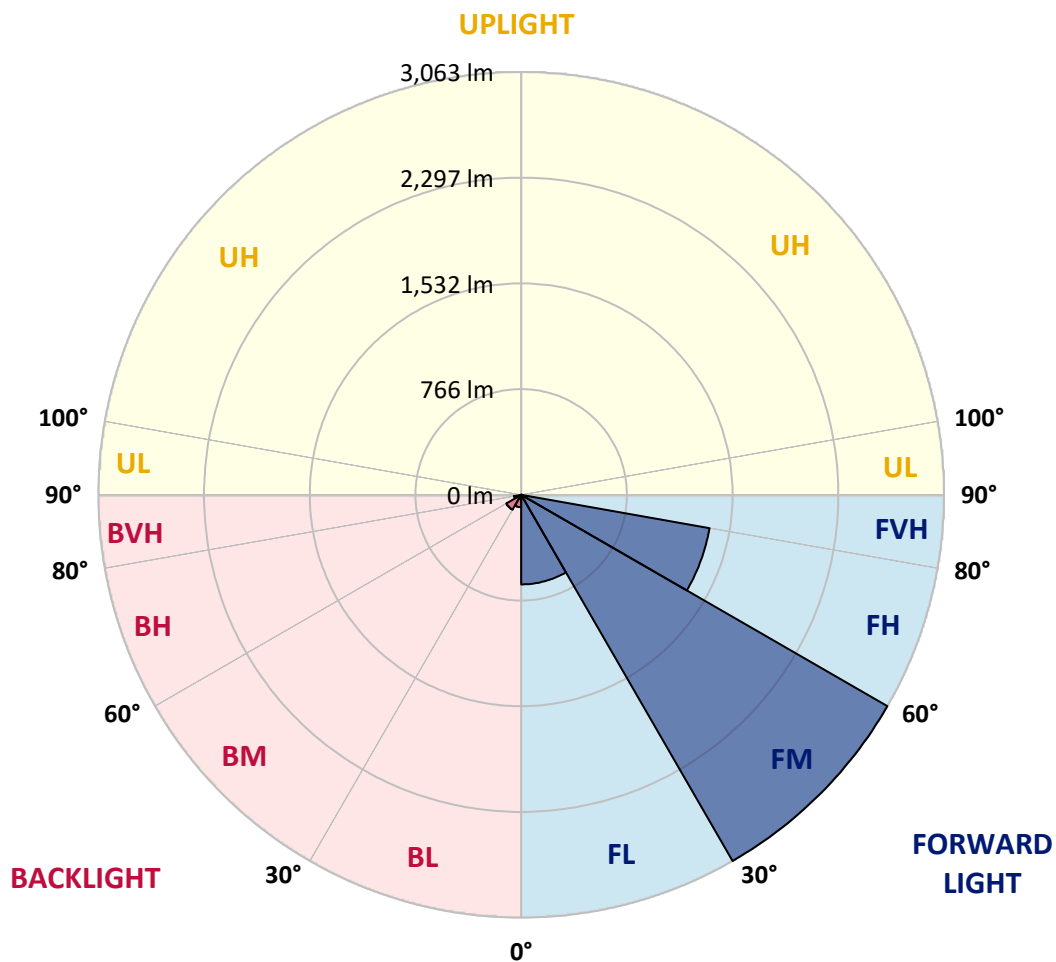
CATALOG NUMBER: ARCH-N-PA1-50-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	649.0	12.1			
FM	(30°-60°)	3063.2	57.0			
FH	(60°-80°)	1385.8	25.8			G1/1800
FVH	(80°-90°)	12.0	0.2			G1/100
BL	(0°-30°)	90.0	1.7	B0/110		
BM	(30°-60°)	125.0	2.3	B0/220		
BH	(60°-80°)	51.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





REPORT NUMBER: P348776

CATALOG NUMBER: ARCH-N-PA1-50-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	680.9	665.6	669.1	659.2	641.3	604.6	573.2	543.5	508.9	507.7	479.2
5°	918.1	905.2	903.5	883.5	851.0	788.6	727.8	658.5	581.2	575.6	515.0
7.5°	1133.5	1123.1	1119.3	1095.5	1035.0	974.2	895.1	793.3	672.4	662.0	563.3
10°	1298.9	1293.9	1294.9	1277.9	1226.1	1169.5	1065.6	935.8	775.8	759.8	621.3
12.5°	1424.2	1425.4	1433.9	1423.5	1394.5	1352.6	1241.6	1087.8	890.3	868.4	687.5
15°	1516.3	1522.2	1537.8	1550.7	1548.6	1512.3	1410.5	1242.1	1011.9	987.6	761.2
17.5°	1575.9	1582.5	1605.2	1633.9	1660.3	1651.8	1573.6	1391.0	1134.9	1106.9	840.2
20°	1628.2	1636.0	1660.3	1698.2	1747.5	1758.1	1706.7	1535.4	1257.6	1223.5	921.7
22.5°	1741.6	1741.3	1756.2	1778.3	1825.2	1852.5	1820.0	1669.5	1379.0	1343.4	1004.8
25°	1946.5	1938.8	1933.6	1916.2	1926.5	1943.5	1925.3	1794.8	1501.0	1465.0	1089.2
27.5°	2190.2	2194.9	2152.9	2106.0	2069.8	2052.3	2022.6	1911.0	1618.3	1578.8	1171.6
30°	2447.2	2448.6	2399.1	2339.3	2259.4	2193.2	2141.9	2021.9	1739.0	1695.9	1251.8
32.5°	2679.0	2669.8	2620.8	2539.3	2438.5	2364.0	2257.3	2145.9	1866.7	1825.0	1340.8
35°	2862.8	2852.0	2792.4	2718.1	2613.5	2538.6	2410.2	2269.6	2001.0	1960.2	1430.1
37.5°	2997.1	2984.4	2923.1	2846.8	2756.5	2713.0	2587.6	2404.1	2147.5	2103.7	1524.1
40°	3043.7	3032.7	2994.3	2938.4	2865.9	2856.0	2775.9	2558.9	2307.0	2260.4	1630.6
42.5°	3015.9	3005.1	2991.4	2972.6	2942.4	2951.9	2953.5	2735.3	2484.2	2438.2	1748.2
45°	2905.7	2896.0	2910.2	2937.7	2975.2	3021.8	3115.6	2925.0	2682.1	2633.1	1884.1
47.5°	2743.3	2736.3	2775.4	2844.2	2953.7	3082.4	3263.8	3124.3	2904.3	2858.8	2053.7
50°	2512.5	2511.3	2589.5	2715.1	2883.5	3111.6	3416.9	3351.0	3212.9	3165.1	2289.6
52.5°	2152.9	2155.3	2309.1	2510.1	2760.3	3091.8	3515.4	3642.2	3572.0	3522.2	2493.8
55°	1810.6	1824.7	1933.8	2223.6	2571.4	3018.3	3549.3	3778.1	3770.1	3723.0	2607.4
57.5°	1475.3	1501.0	1606.1	1876.8	2295.5	2848.9	3530.7	3837.0	3917.6	3881.5	2757.2
60°	1112.0	1123.8	1244.9	1498.0	1941.4	2539.8	3395.7	3869.1	4119.3	4094.3	2974.7
62.5°	707.5	737.0	844.4	1088.5	1511.6	2110.5	3168.1	3868.6	4371.6	4385.3	3255.3
65°	372.7	407.1	464.1	674.5	1038.8	1631.1	2825.8	3832.3	4681.2	4700.3	3474.7
67.5°	201.0	210.9	241.0	350.1	602.4	1105.0	2322.8	3653.2	4860.5	4885.7	3505.3
70°	147.0	152.4	163.7	193.7	303.2	641.8	1694.9	3247.3	4629.3	4619.9	3114.4
72.5°	112.9	121.3	129.8	141.8	174.3	342.6	1055.3	2542.9	3693.8	3631.6	2328.0
75°	89.1	90.5	102.5	113.3	130.8	195.1	468.6	1481.0	2254.5	2107.2	1207.2
77.5°	71.2	72.1	79.2	88.6	105.1	128.2	145.1	582.6	719.8	642.3	262.0
80°	42.2	44.5	58.9	68.3	87.2	80.8	53.0	126.5	112.4	101.8	44.1
82.5°	23.6	25.4	33.2	54.0	60.8	38.6	26.4	34.2	26.4	25.7	12.5
85°	0.0	1.2	21.4	33.5	24.7	8.5	11.1	11.3	7.8	7.3	4.9
87.5°	0.0	0.0	6.6	6.4	0.9	1.4	2.6	3.8	3.1	3.1	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348776

CATALOG NUMBER: ARCH-N-PA1-50-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	465.1	452.4	428.3	404.8	385.0	368.7	354.1	348.2	343.5	342.8	339.0
5°	485.8	460.1	414.2	376.5	351.3	333.4	318.1	308.6	301.3	298.5	295.9
7.5°	517.1	478.3	412.3	369.0	338.8	308.6	280.4	249.7	230.7	223.4	219.1
10°	555.3	502.3	419.4	366.8	314.1	250.4	203.6	164.7	148.9	143.7	142.3
12.5°	599.8	532.2	431.6	353.6	261.3	177.9	140.4	127.2	123.7	122.0	122.0
15°	651.0	565.0	440.3	315.5	193.2	134.5	121.6	115.4	111.7	109.6	109.8
17.5°	703.3	597.0	436.1	260.1	142.5	119.7	110.0	103.4	98.2	96.1	95.7
20°	756.0	626.7	412.5	193.7	120.6	108.6	97.8	90.5	85.3	83.2	82.7
22.5°	810.7	651.9	371.1	142.1	108.4	96.4	85.8	78.5	73.5	71.6	70.7
25°	864.0	672.4	313.1	115.0	96.8	84.8	74.7	67.9	63.4	61.5	61.3
27.5°	913.7	685.4	246.0	101.5	86.7	74.5	65.3	59.1	55.4	54.0	53.7
30°	958.4	686.5	181.9	91.6	77.7	65.5	57.0	51.6	48.3	46.9	46.4
32.5°	1003.7	676.6	132.4	82.7	69.5	57.7	49.5	45.2	42.9	41.7	41.7
35°	1046.3	653.8	103.2	74.9	61.5	50.2	43.6	40.5	39.1	37.9	37.9
37.5°	1088.0	621.0	87.6	68.1	54.0	43.8	38.4	36.5	35.3	34.2	34.2
40°	1130.4	579.8	79.6	61.7	47.8	38.9	34.2	32.5	31.3	30.4	30.2
42.5°	1182.5	532.2	74.5	55.8	42.4	34.4	30.2	28.3	27.3	26.4	25.9
45°	1242.8	491.2	70.2	49.9	37.9	30.6	26.2	24.3	22.9	21.7	21.4
47.5°	1329.7	461.5	64.6	43.6	33.7	26.6	22.6	20.5	18.4	17.2	17.0
50°	1440.7	437.0	57.3	37.9	29.5	22.6	18.8	16.3	14.4	13.2	13.2
52.5°	1495.8	405.0	50.7	33.0	24.7	19.1	15.3	12.3	11.3	10.1	10.1
55°	1518.0	380.5	44.1	28.0	20.5	15.8	12.0	9.4	8.7	8.0	7.8
57.5°	1580.2	373.4	38.4	23.8	17.0	12.5	9.2	7.1	6.6	5.7	5.7
60°	1680.3	377.0	33.2	20.3	13.7	9.7	6.8	5.4	4.9	4.0	4.0
62.5°	1788.5	372.5	28.0	17.4	10.6	7.1	4.7	4.0	4.0	2.4	2.1
65°	1809.2	331.7	24.0	14.4	8.2	5.2	3.1	2.6	3.5	0.5	0.0
67.5°	1679.1	257.3	20.7	11.1	6.1	4.0	2.4	1.2	3.1	0.0	0.0
70°	1342.7	163.5	16.7	8.0	4.7	3.3	1.9	0.5	2.4	0.0	0.0
72.5°	949.5	94.9	13.2	5.7	4.0	2.6	1.4	0.0	1.4	0.0	0.0
75°	480.2	50.7	8.2	4.2	3.1	1.9	0.9	0.0	0.2	0.0	0.0
77.5°	103.9	23.6	5.2	3.1	2.1	1.2	0.5	0.0	0.0	0.0	0.0
80°	22.6	10.4	3.3	1.9	1.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	5.4	1.6	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	2.8	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.9	0.2	0.2	0.0	0.0	0.0	0.0	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)