

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: P348756

Luminaire Tested: **ARCH-N-PA1-60-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348756
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-PA1-60-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5059 lumens
Efficiency: N/A
Efficacy: 81.6 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

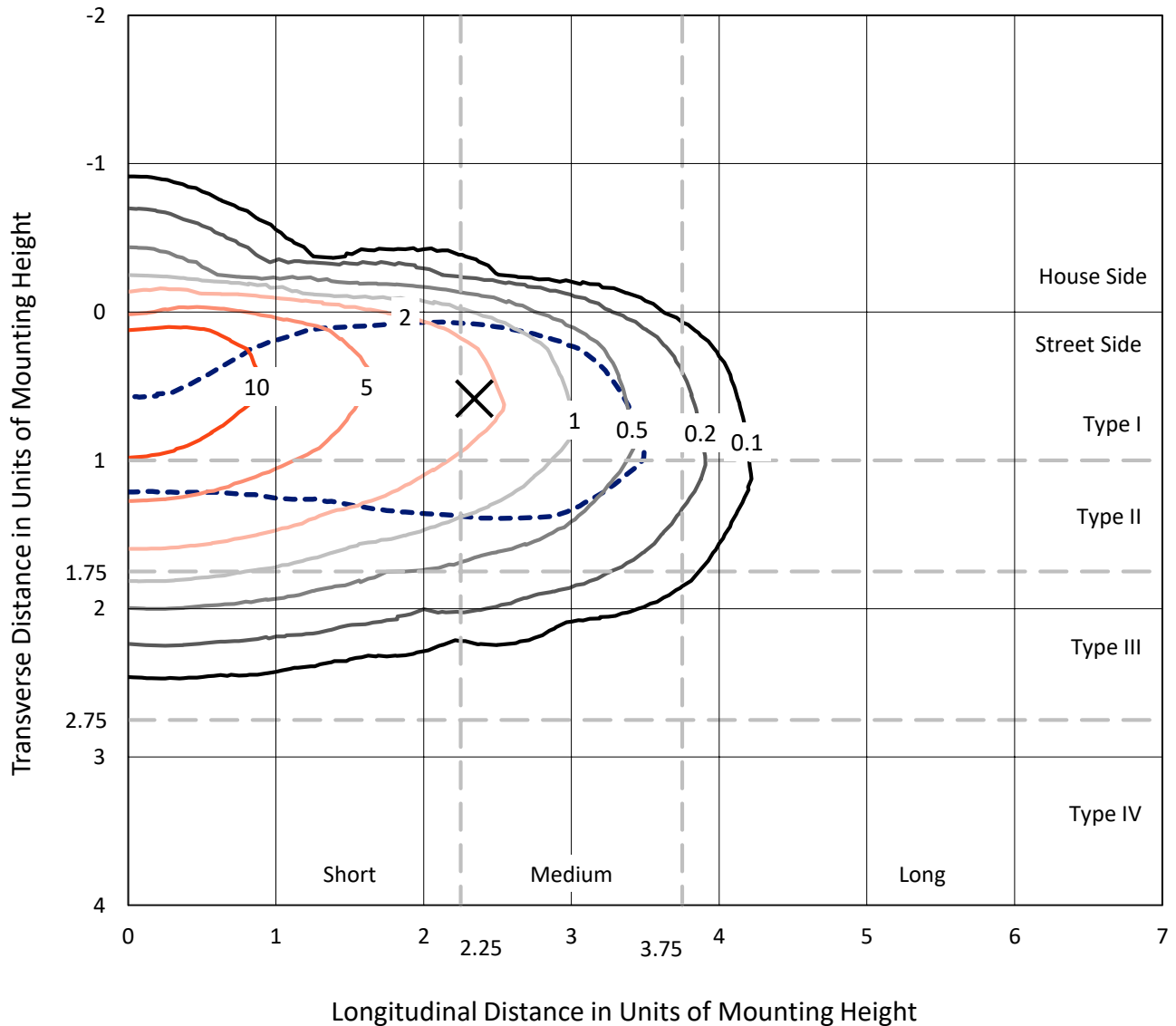
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

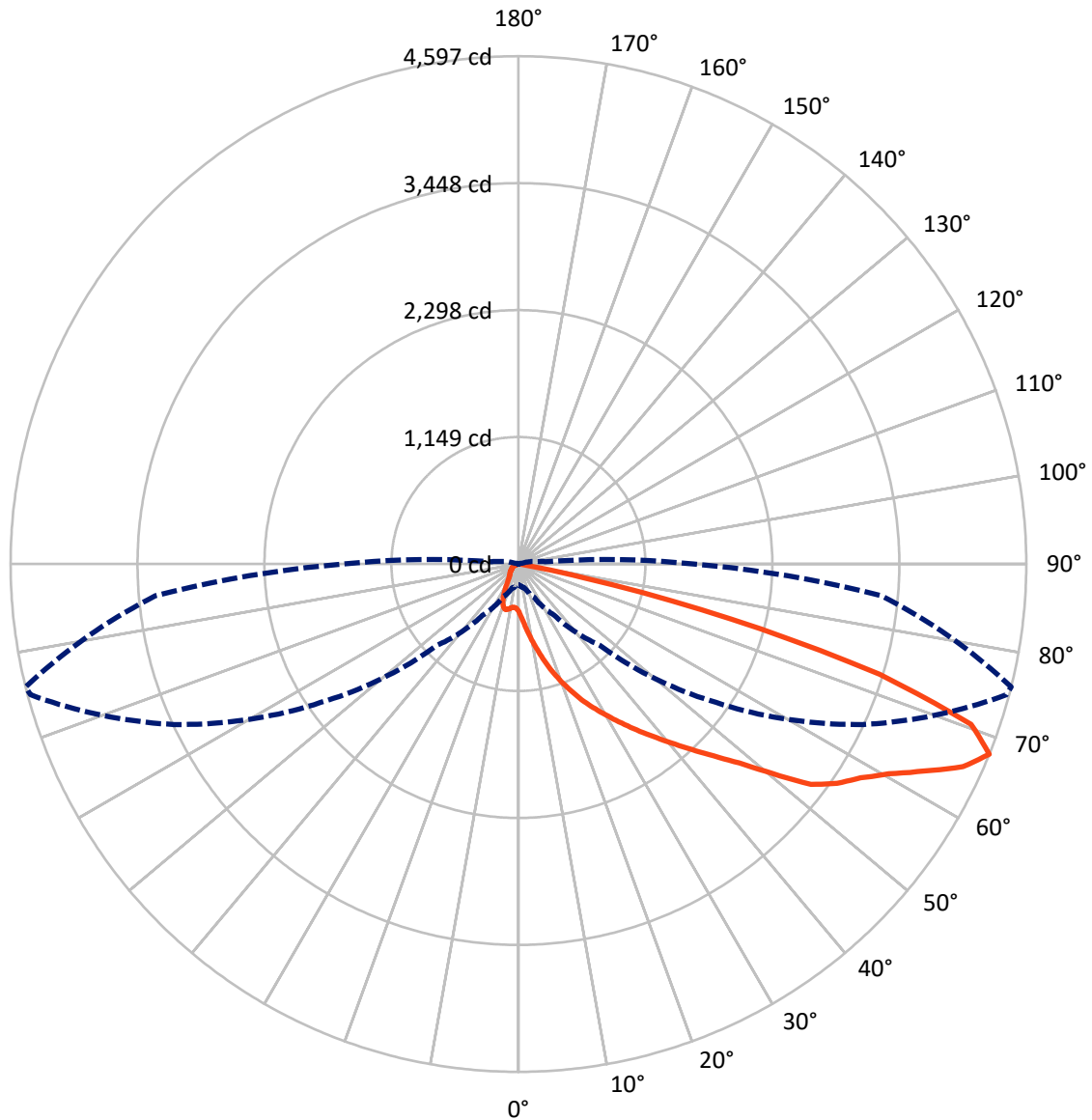
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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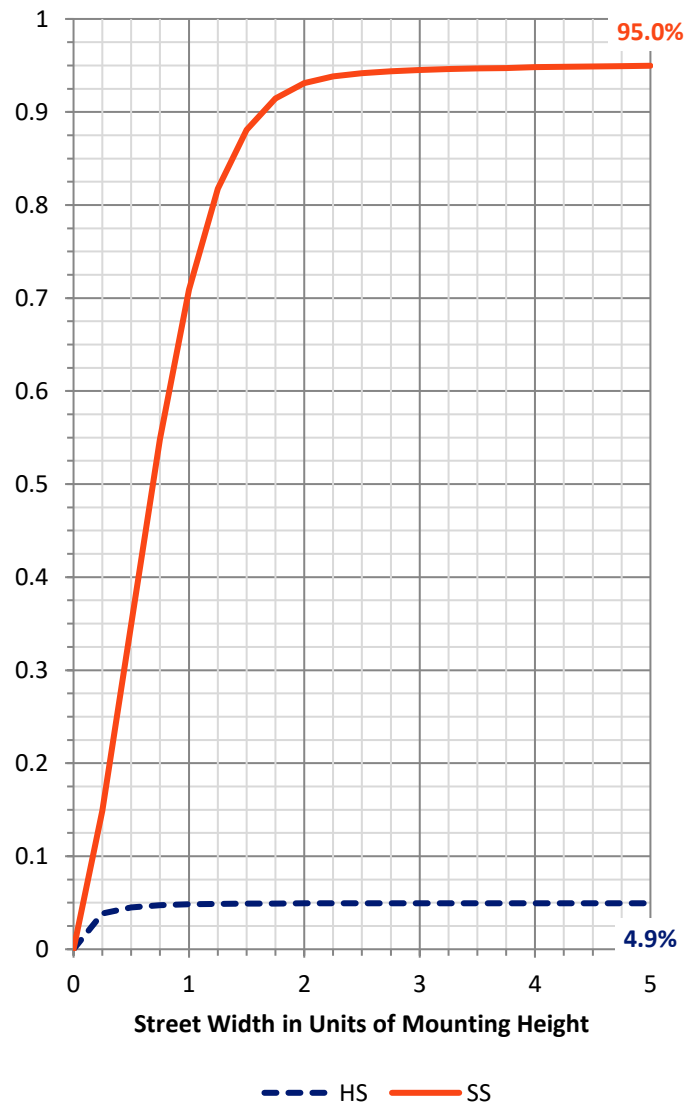
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	251.2	0.0	251.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4807.8	0.0	4807.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	5059.0	0.0	5059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.1
10°-20°	211.5	4.2
20°-30°	430.4	8.5
30°-40°	747.1	14.8
40°-50°	1055.5	20.9
50°-60°	1197.0	23.7
60°-70°	992.8	19.6
70°-80°	359.6	7.1
80°-90°	11.7	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°	5059.0	100.0
0°-180°	5059.0	100.0

Coefficient of Utilization



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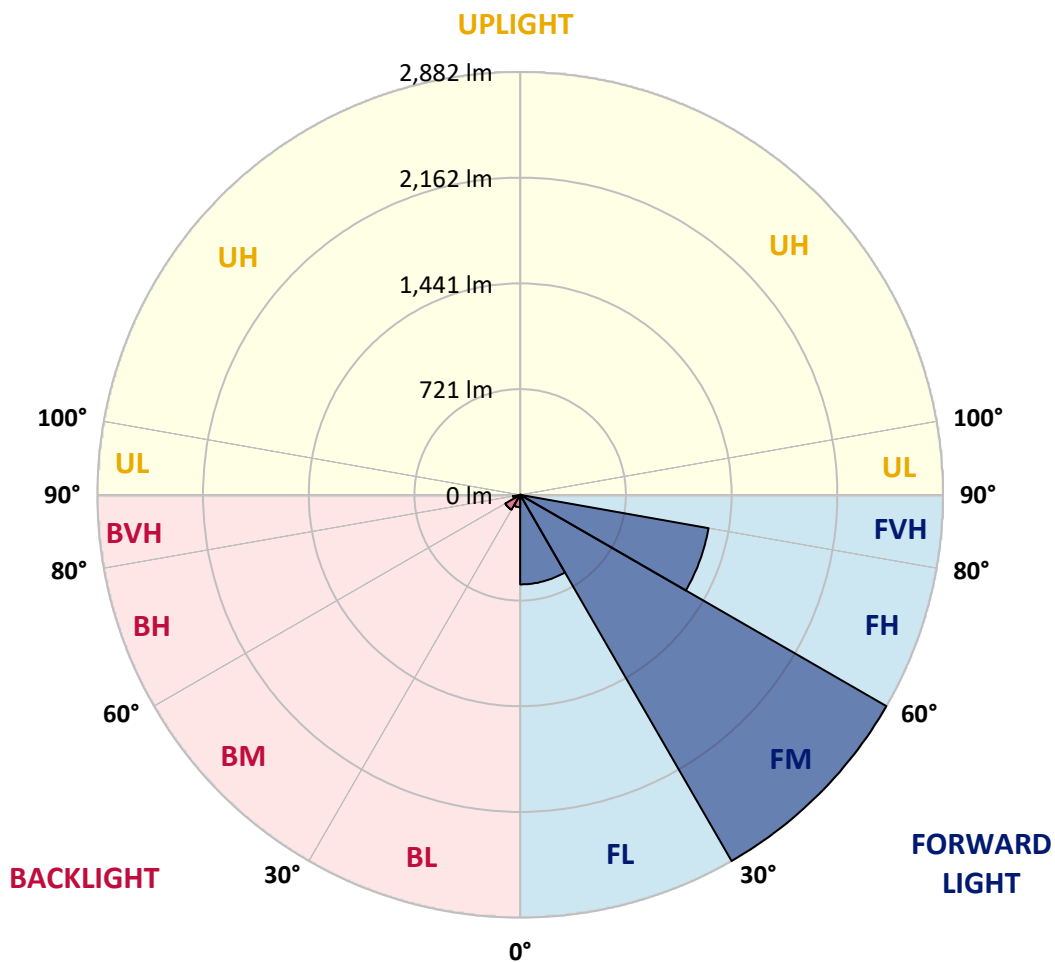
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	610.6	12.1			
FM	(30°-60°)	2882.0	57.0			
FH	(60°-80°)	1303.9	25.8			G1/1800
FVH	(80°-90°)	11.3	0.2			G1/100
BL	(0°-30°)	84.7	1.7	B0/110		
BM	(30°-60°)	117.6	2.3	B0/220		
BH	(60°-80°)	48.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1
2.5°	640.6	626.2	629.5	620.2	603.4	568.8	539.3	511.4	478.8	477.7	450.9
5°	863.8	851.6	850.1	831.3	800.7	741.9	684.7	619.6	546.9	541.5	484.6
7.5°	1066.4	1056.7	1053.1	1030.8	973.8	916.6	842.1	746.4	632.6	622.9	530.0
10°	1222.1	1217.4	1218.3	1202.3	1153.6	1100.4	1002.6	880.5	730.0	714.9	584.5
12.5°	1340.0	1341.1	1349.1	1339.3	1312.1	1272.6	1168.2	1023.4	837.7	817.1	646.8
15°	1426.7	1432.2	1446.8	1459.0	1457.0	1422.9	1327.1	1168.6	952.1	929.2	716.2
17.5°	1482.7	1488.9	1510.2	1537.3	1562.1	1554.1	1480.5	1308.7	1067.8	1041.4	790.5
20°	1531.9	1539.3	1562.1	1597.8	1644.1	1654.1	1605.8	1444.6	1183.3	1151.1	867.2
22.5°	1638.6	1638.3	1652.3	1673.2	1717.3	1743.0	1712.4	1570.7	1297.4	1264.0	945.4
25°	1831.4	1824.1	1819.2	1802.8	1812.6	1828.5	1811.5	1688.7	1412.2	1378.3	1024.8
27.5°	2060.6	2065.1	2025.6	1981.5	1947.4	1931.0	1903.0	1798.0	1522.6	1485.4	1102.4
30°	2302.5	2303.8	2257.2	2200.9	2125.8	2063.5	2015.2	1902.4	1636.1	1595.6	1177.7
32.5°	2520.6	2511.9	2465.8	2389.1	2294.3	2224.2	2123.8	2019.0	1756.3	1717.0	1261.5
35°	2693.5	2683.3	2627.2	2557.4	2459.0	2388.5	2267.7	2135.3	1882.6	1844.3	1345.5
37.5°	2819.8	2807.9	2750.2	2678.4	2593.5	2552.5	2434.6	2261.9	2020.5	1979.3	1434.0
40°	2863.7	2853.3	2817.2	2764.6	2696.4	2687.1	2611.7	2407.5	2170.6	2126.7	1534.2
42.5°	2837.6	2827.4	2814.5	2796.8	2768.4	2777.3	2778.8	2573.6	2337.3	2294.0	1644.8
45°	2733.8	2724.7	2738.0	2764.0	2799.2	2843.1	2931.3	2752.0	2523.5	2477.4	1772.7
47.5°	2581.1	2574.5	2611.3	2676.0	2779.1	2900.1	3070.8	2939.5	2732.5	2689.7	1932.3
50°	2363.9	2362.8	2436.4	2554.5	2713.0	2927.6	3214.9	3152.8	3022.9	2977.9	2154.2
52.5°	2025.6	2027.8	2172.6	2361.7	2597.1	2909.0	3307.5	3426.8	3360.7	3313.9	2346.4
55°	1703.5	1716.8	1819.5	2092.1	2419.3	2839.8	3339.4	3554.7	3547.1	3502.8	2453.2
57.5°	1388.1	1412.2	1511.1	1765.8	2159.7	2680.4	3321.9	3610.1	3685.9	3652.0	2594.2
60°	1046.3	1057.4	1171.3	1409.4	1826.5	2389.6	3194.9	3640.2	3875.6	3852.2	2798.8
62.5°	665.7	693.4	794.5	1024.1	1422.2	1985.7	2980.8	3639.8	4113.1	4125.9	3062.8
65°	350.7	383.0	436.7	634.6	977.3	1534.6	2658.7	3605.7	4404.3	4422.3	3269.2
67.5°	189.1	198.4	226.8	329.4	566.8	1039.6	2185.4	3437.2	4573.0	4596.7	3298.0
70°	138.3	143.4	154.1	182.2	285.3	603.8	1594.7	3055.3	4355.6	4346.7	2930.2
72.5°	106.2	114.2	122.1	133.4	164.0	322.3	992.9	2392.5	3475.3	3416.8	2190.3
75°	83.8	85.1	96.4	106.6	123.0	183.5	440.9	1393.4	2121.1	1982.6	1135.8
77.5°	66.9	67.8	74.5	83.3	98.9	120.6	136.5	548.2	677.2	604.3	246.5
80°	39.7	41.9	55.4	64.3	82.0	76.0	49.9	119.0	105.7	95.8	41.5
82.5°	22.2	23.9	31.3	50.8	57.2	36.4	24.8	32.1	24.8	24.2	11.7
85°	0.0	1.1	20.2	31.5	23.3	8.0	10.4	10.6	7.3	6.9	4.7
87.5°	0.0	0.0	6.2	6.0	0.9	1.3	2.4	3.5	2.9	2.9	2.4
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°	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1	429.1
2.5°	437.6	425.6	403.0	380.8	362.2	346.9	333.2	327.6	323.2	322.5	319.0
5°	457.1	432.9	389.7	354.2	330.5	313.7	299.3	290.4	283.5	280.9	278.4
7.5°	486.6	450.0	387.9	347.1	318.8	290.4	263.8	235.0	217.0	210.1	206.2
10°	522.5	472.6	394.6	345.1	295.5	235.6	191.5	154.9	140.1	135.2	133.9
12.5°	564.4	500.7	406.1	332.7	245.8	167.4	132.1	119.7	116.4	114.8	114.8
15°	612.5	531.6	414.3	296.8	181.8	126.6	114.4	108.6	105.1	103.1	103.3
17.5°	661.7	561.7	410.3	244.7	134.1	112.6	103.5	97.3	92.4	90.4	90.0
20°	711.3	589.6	388.1	182.2	113.5	102.2	92.0	85.1	80.2	78.2	77.8
22.5°	762.8	613.4	349.1	133.7	102.0	90.7	80.7	73.8	69.2	67.4	66.5
25°	812.9	632.6	294.6	108.2	91.1	79.8	70.3	63.8	59.6	57.9	57.6
27.5°	859.6	644.8	231.4	95.5	81.6	70.0	61.4	55.6	52.1	50.8	50.5
30°	901.7	645.9	171.1	86.2	73.2	61.6	53.6	48.5	45.4	44.1	43.7
32.5°	944.3	636.6	124.6	77.8	65.4	54.3	46.6	42.6	40.3	39.2	39.2
35°	984.4	615.1	97.1	70.5	57.9	47.2	41.0	38.1	36.8	35.7	35.7
37.5°	1023.7	584.3	82.5	64.1	50.8	41.2	36.1	34.4	33.3	32.1	32.1
40°	1063.6	545.5	74.9	58.1	45.0	36.6	32.1	30.6	29.5	28.6	28.4
42.5°	1112.6	500.7	70.0	52.5	39.9	32.4	28.4	26.6	25.7	24.8	24.4
45°	1169.3	462.2	66.1	47.0	35.7	28.8	24.6	22.8	21.5	20.4	20.2
47.5°	1251.1	434.2	60.7	41.0	31.7	25.0	21.3	19.3	17.3	16.2	16.0
50°	1355.5	411.2	53.9	35.7	27.7	21.3	17.7	15.3	13.5	12.4	12.4
52.5°	1407.4	381.0	47.7	31.0	23.3	18.0	14.4	11.5	10.6	9.5	9.5
55°	1428.2	358.0	41.5	26.4	19.3	14.9	11.3	8.9	8.2	7.5	7.3
57.5°	1486.7	351.3	36.1	22.4	16.0	11.7	8.6	6.7	6.2	5.3	5.3
60°	1580.9	354.7	31.3	19.1	12.9	9.1	6.4	5.1	4.7	3.8	3.8
62.5°	1682.7	350.5	26.4	16.4	10.0	6.7	4.4	3.8	3.8	2.2	2.0
65°	1702.2	312.1	22.6	13.5	7.8	4.9	2.9	2.4	3.3	0.4	0.0
67.5°	1579.8	242.1	19.5	10.4	5.8	3.8	2.2	1.1	2.9	0.0	0.0
70°	1263.3	153.8	15.7	7.5	4.4	3.1	1.8	0.4	2.2	0.0	0.0
72.5°	893.3	89.3	12.4	5.3	3.8	2.4	1.3	0.0	1.3	0.0	0.0
75°	451.8	47.7	7.8	4.0	2.9	1.8	0.9	0.0	0.2	0.0	0.0
77.5°	97.8	22.2	4.9	2.9	2.0	1.1	0.4	0.0	0.0	0.0	0.0
80°	21.3	9.8	3.1	1.8	1.1	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	5.1	1.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.7	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)