

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: P348763

Luminaire Tested: **ARCH-N-PA1-60-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348763
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-PA1-60-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5509 lumens
Efficiency: N/A
Efficacy: 88.9 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

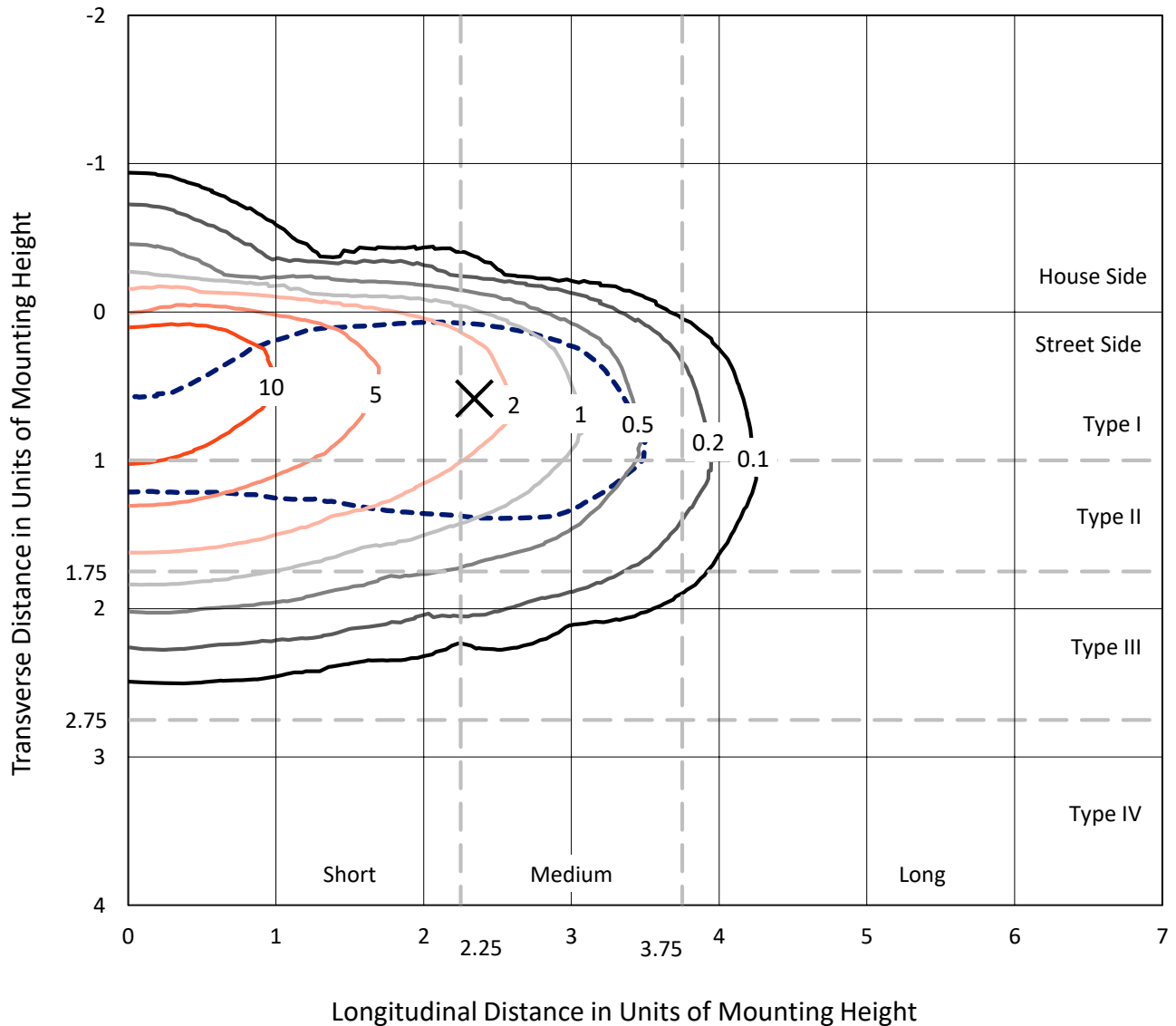
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

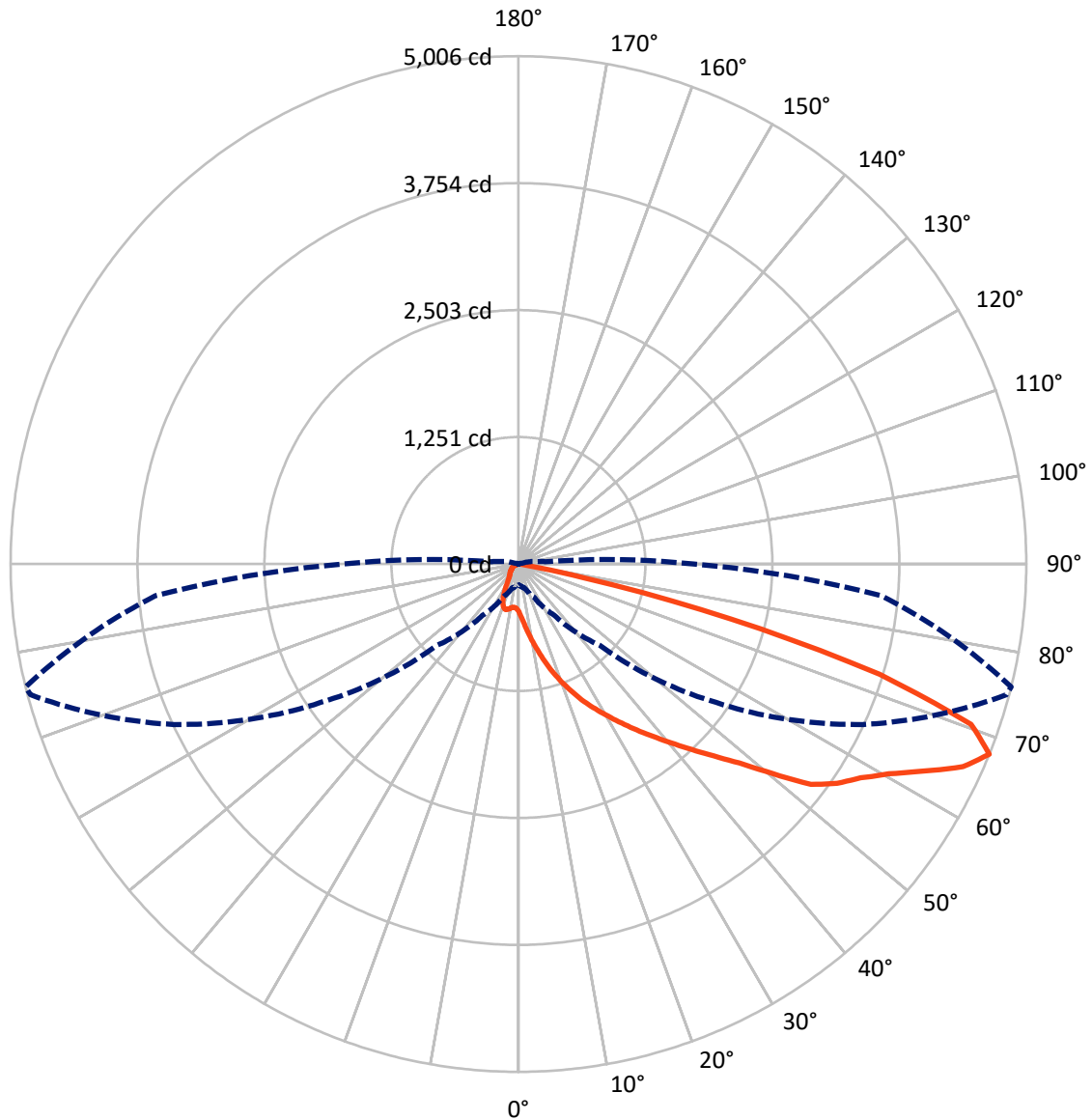
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 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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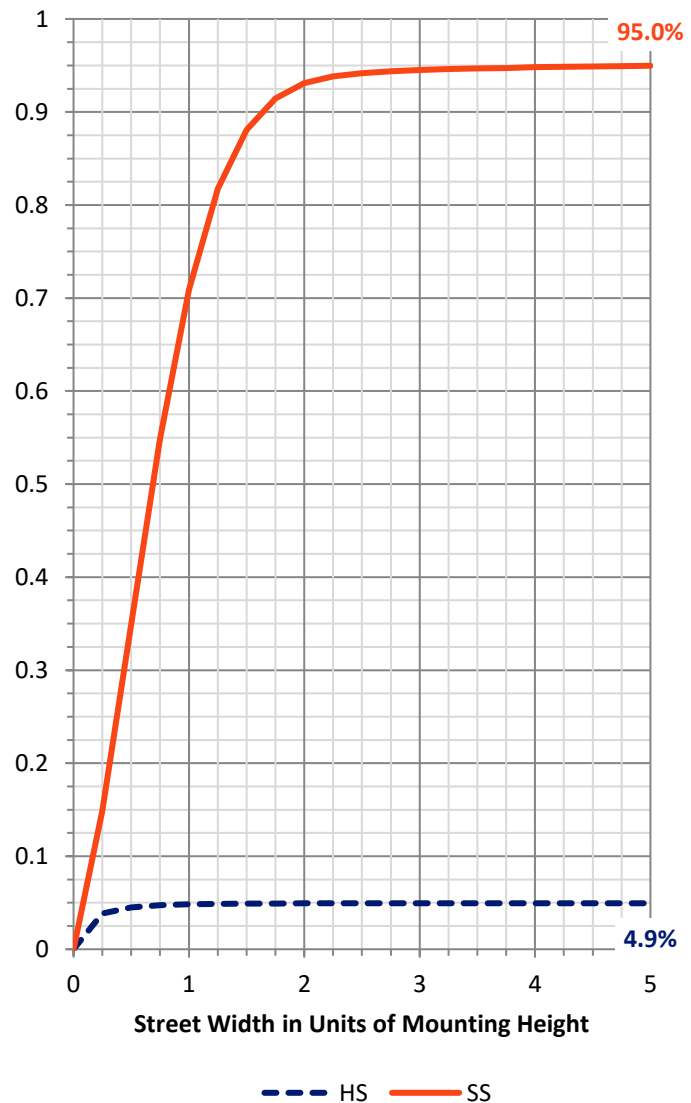
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	273.6	0.0	273.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5235.4	0.0	5235.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	5509.0	0.0	5509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.1
10°-20°	230.4	4.2
20°-30°	468.7	8.5
30°-40°	813.5	14.8
40°-50°	1149.4	20.9
50°-60°	1303.5	23.7
60°-70°	1081.1	19.6
70°-80°	391.6	7.1
80°-90°	12.7	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°	5509.0	100.0
0°-180°	5509.0	100.0



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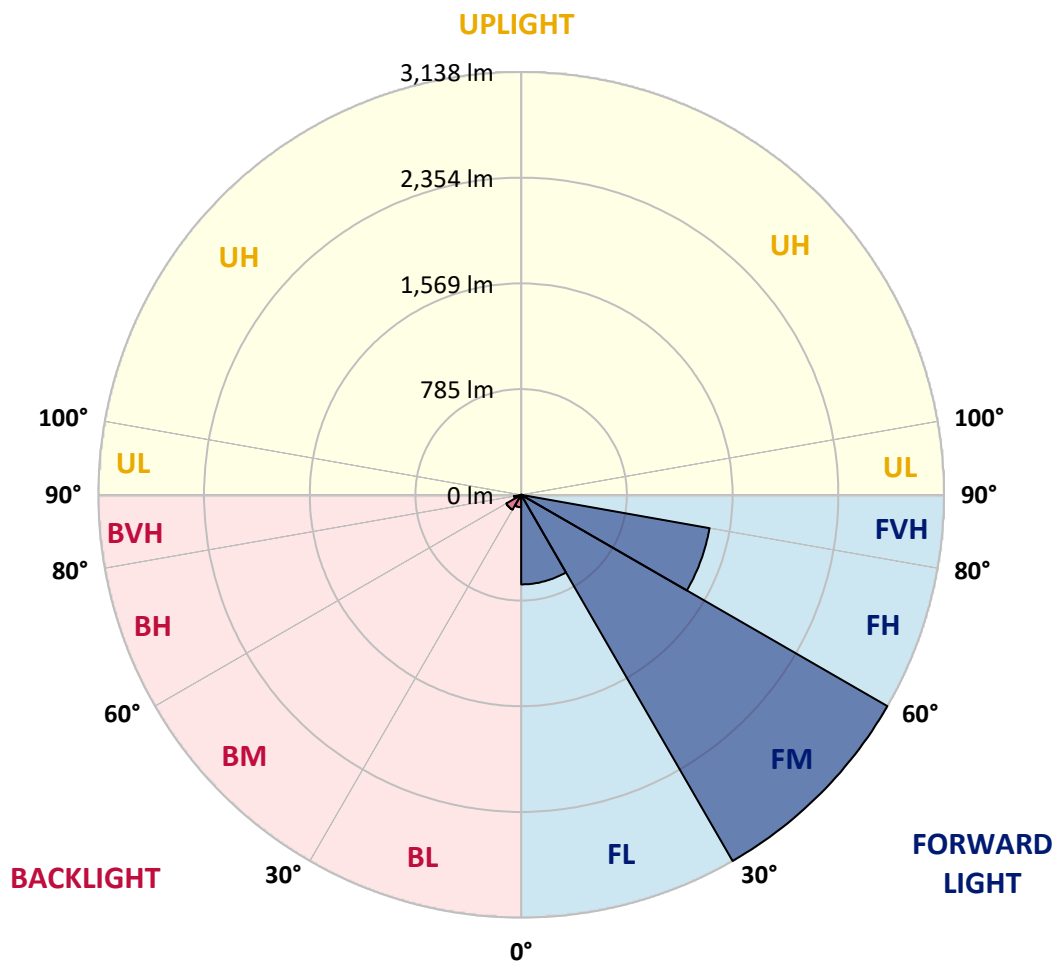
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	664.9	12.1			
FM	(30°-60°)	3138.4	57.0			
FH	(60°-80°)	1419.9	25.8			G1/1800
FVH	(80°-90°)	12.3	0.2			G1/100
BL	(0°-30°)	92.3	1.7	B0/110		
BM	(30°-60°)	128.0	2.3	B0/220		
BH	(60°-80°)	52.9	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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	697.6	681.9	685.5	675.4	657.1	619.4	587.3	556.9	521.4	520.2	491.0
5°	940.7	927.4	925.7	905.2	871.9	807.9	745.6	674.7	595.5	589.7	527.7
7.5°	1161.3	1150.7	1146.8	1122.4	1060.4	998.1	917.0	812.7	688.9	678.3	577.2
10°	1330.8	1325.7	1326.7	1309.3	1256.2	1198.2	1091.8	958.8	794.9	778.5	636.5
12.5°	1459.2	1460.4	1469.1	1458.5	1428.8	1385.8	1272.1	1114.5	912.2	889.7	704.4
15°	1553.6	1559.6	1575.5	1588.8	1586.6	1549.5	1445.2	1272.6	1036.8	1011.9	779.9
17.5°	1614.6	1621.4	1644.6	1674.0	1701.0	1692.4	1612.2	1425.1	1162.8	1134.0	860.8
20°	1668.2	1676.2	1701.0	1739.9	1790.4	1801.2	1748.6	1573.1	1288.5	1253.5	944.3
22.5°	1784.3	1784.1	1799.3	1822.0	1870.0	1898.0	1864.7	1710.5	1412.8	1376.4	1029.5
25°	1994.3	1986.4	1981.1	1963.2	1973.8	1991.2	1972.6	1838.9	1537.9	1500.9	1115.9
27.5°	2243.9	2248.7	2205.8	2157.7	2120.6	2102.7	2072.3	1957.9	1658.1	1617.5	1200.4
30°	2507.3	2508.7	2458.0	2396.7	2314.9	2247.1	2194.4	2071.6	1781.7	1737.5	1282.5
32.5°	2744.8	2735.4	2685.2	2601.7	2498.3	2422.1	2312.7	2198.5	1912.5	1869.8	1373.7
35°	2933.1	2922.0	2860.9	2784.9	2677.7	2600.9	2469.4	2325.3	2050.1	2008.3	1465.2
37.5°	3070.7	3057.6	2994.9	2916.7	2824.2	2779.6	2651.1	2463.1	2200.2	2155.3	1561.5
40°	3118.5	3107.1	3067.8	3010.6	2936.2	2926.1	2844.0	2621.7	2363.6	2315.9	1670.6
42.5°	3090.0	3078.9	3064.9	3045.6	3014.7	3024.3	3026.0	2802.5	2545.2	2498.1	1791.1
45°	2977.0	2967.1	2981.6	3009.8	3048.2	3096.0	3192.1	2996.8	2747.9	2697.7	1930.4
47.5°	2810.7	2803.5	2843.5	2914.0	3026.3	3158.0	3343.9	3201.0	2975.6	2929.0	2104.2
50°	2574.1	2572.9	2653.1	2781.7	2954.3	3188.0	3500.8	3433.2	3291.8	3242.8	2345.8
52.5°	2205.8	2208.2	2365.8	2571.7	2828.1	3167.7	3601.7	3731.6	3659.6	3608.7	2555.1
55°	1855.0	1869.5	1981.3	2278.2	2634.5	3092.4	3636.5	3870.9	3862.7	3814.4	2671.4
57.5°	1511.6	1537.9	1645.5	1922.9	2351.8	2918.8	3617.4	3931.2	4013.8	3976.8	2824.9
60°	1139.3	1151.4	1275.5	1534.7	1989.0	2602.1	3479.1	3964.0	4220.4	4194.8	3047.7
62.5°	724.9	755.1	865.1	1115.2	1548.7	2162.3	3245.9	3963.6	4478.9	4492.9	3335.2
65°	381.9	417.1	475.5	691.1	1064.3	1671.1	2895.2	3926.4	4796.1	4815.6	3560.0
67.5°	205.9	216.0	246.9	358.7	617.2	1132.1	2379.8	3742.9	4979.8	5005.6	3591.3
70°	150.6	156.2	167.8	198.4	310.7	657.5	1736.5	3327.0	4743.0	4733.3	3190.9
72.5°	115.6	124.3	133.0	145.3	178.6	351.0	1081.2	2605.3	3784.4	3720.7	2385.1
75°	91.2	92.7	105.0	116.1	134.0	199.9	480.1	1517.4	2309.8	2159.0	1236.9
77.5°	72.9	73.9	81.1	90.8	107.7	131.3	148.7	596.9	737.4	658.0	268.4
80°	43.2	45.6	60.3	70.0	89.3	82.8	54.3	129.6	115.1	104.3	45.1
82.5°	24.1	26.1	34.0	55.3	62.3	39.6	27.0	35.0	27.0	26.3	12.8
85°	0.0	1.2	22.0	34.3	25.3	8.7	11.3	11.6	8.0	7.5	5.1
87.5°	0.0	0.0	6.8	6.5	1.0	1.4	2.7	3.9	3.1	3.1	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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	476.5	463.5	438.8	414.7	394.4	377.8	362.8	356.8	351.9	351.2	347.4
5°	497.7	471.4	424.4	385.7	359.9	341.6	325.9	316.2	308.7	305.8	303.2
7.5°	529.8	490.0	422.4	378.0	347.1	316.2	287.2	255.9	236.3	228.8	224.5
10°	568.9	514.6	429.7	375.8	321.8	256.6	208.6	168.7	152.6	147.2	145.8
12.5°	614.6	545.3	442.2	362.3	267.7	182.2	143.9	130.3	126.7	125.0	125.0
15°	666.9	578.8	451.1	323.2	197.9	137.8	124.6	118.3	114.4	112.2	112.5
17.5°	720.5	611.7	446.8	266.5	146.0	122.6	112.7	106.0	100.7	98.5	98.0
20°	774.6	642.1	422.7	198.4	123.6	111.3	100.2	92.7	87.4	85.2	84.7
22.5°	830.6	667.9	380.2	145.6	111.0	98.7	87.9	80.4	75.3	73.4	72.4
25°	885.2	688.9	320.8	117.8	99.2	86.9	76.5	69.5	64.9	63.0	62.8
27.5°	936.1	702.2	252.0	104.0	88.8	76.3	66.9	60.6	56.7	55.3	55.0
30°	982.0	703.4	186.3	93.9	79.7	67.1	58.4	52.9	49.5	48.0	47.6
32.5°	1028.3	693.3	135.7	84.7	71.2	59.1	50.7	46.3	43.9	42.7	42.7
35°	1072.0	669.8	105.7	76.8	63.0	51.4	44.7	41.5	40.1	38.9	38.9
37.5°	1114.7	636.3	89.8	69.8	55.3	44.9	39.3	37.4	36.2	35.0	35.0
40°	1158.2	594.1	81.6	63.2	49.0	39.8	35.0	33.3	32.1	31.1	30.9
42.5°	1211.5	545.3	76.3	57.2	43.4	35.2	30.9	29.0	28.0	27.0	26.6
45°	1273.3	503.3	71.9	51.2	38.9	31.4	26.8	24.9	23.4	22.2	22.0
47.5°	1362.4	472.9	66.1	44.7	34.5	27.3	23.2	21.0	18.8	17.6	17.4
50°	1476.1	447.8	58.7	38.9	30.2	23.2	19.3	16.7	14.7	13.5	13.5
52.5°	1532.6	414.9	51.9	33.8	25.3	19.6	15.7	12.6	11.6	10.4	10.4
55°	1555.2	389.8	45.1	28.7	21.0	16.2	12.3	9.7	8.9	8.2	8.0
57.5°	1619.0	382.6	39.3	24.4	17.4	12.8	9.4	7.2	6.8	5.8	5.8
60°	1721.6	386.2	34.0	20.8	14.0	9.9	7.0	5.6	5.1	4.1	4.1
62.5°	1832.4	381.6	28.7	17.9	10.9	7.2	4.8	4.1	4.1	2.4	2.2
65°	1853.6	339.9	24.6	14.7	8.4	5.3	3.1	2.7	3.6	0.5	0.0
67.5°	1720.4	263.6	21.2	11.3	6.3	4.1	2.4	1.2	3.1	0.0	0.0
70°	1375.7	167.5	17.1	8.2	4.8	3.4	1.9	0.5	2.4	0.0	0.0
72.5°	972.8	97.3	13.5	5.8	4.1	2.7	1.4	0.0	1.4	0.0	0.0
75°	491.9	51.9	8.4	4.3	3.1	1.9	1.0	0.0	0.2	0.0	0.0
77.5°	106.5	24.1	5.3	3.1	2.2	1.2	0.5	0.0	0.0	0.0	0.0
80°	23.2	10.6	3.4	1.9	1.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	5.6	1.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.0	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)