

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: P348770

Luminaire Tested: **ARCH-N-PA1-60-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348770
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-PA1-60-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6049 lumens
Efficiency: N/A
Efficacy: 97.6 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

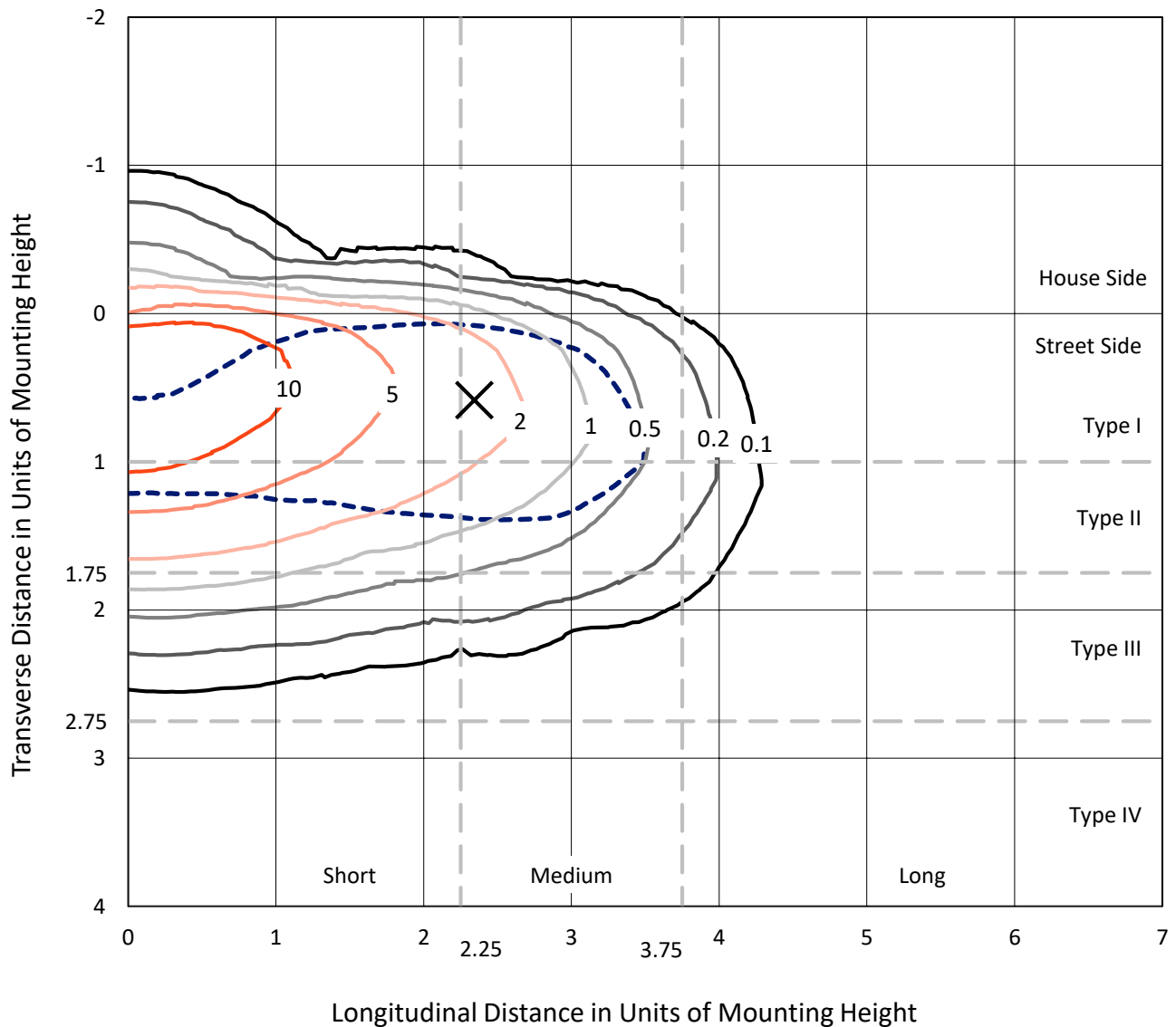
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

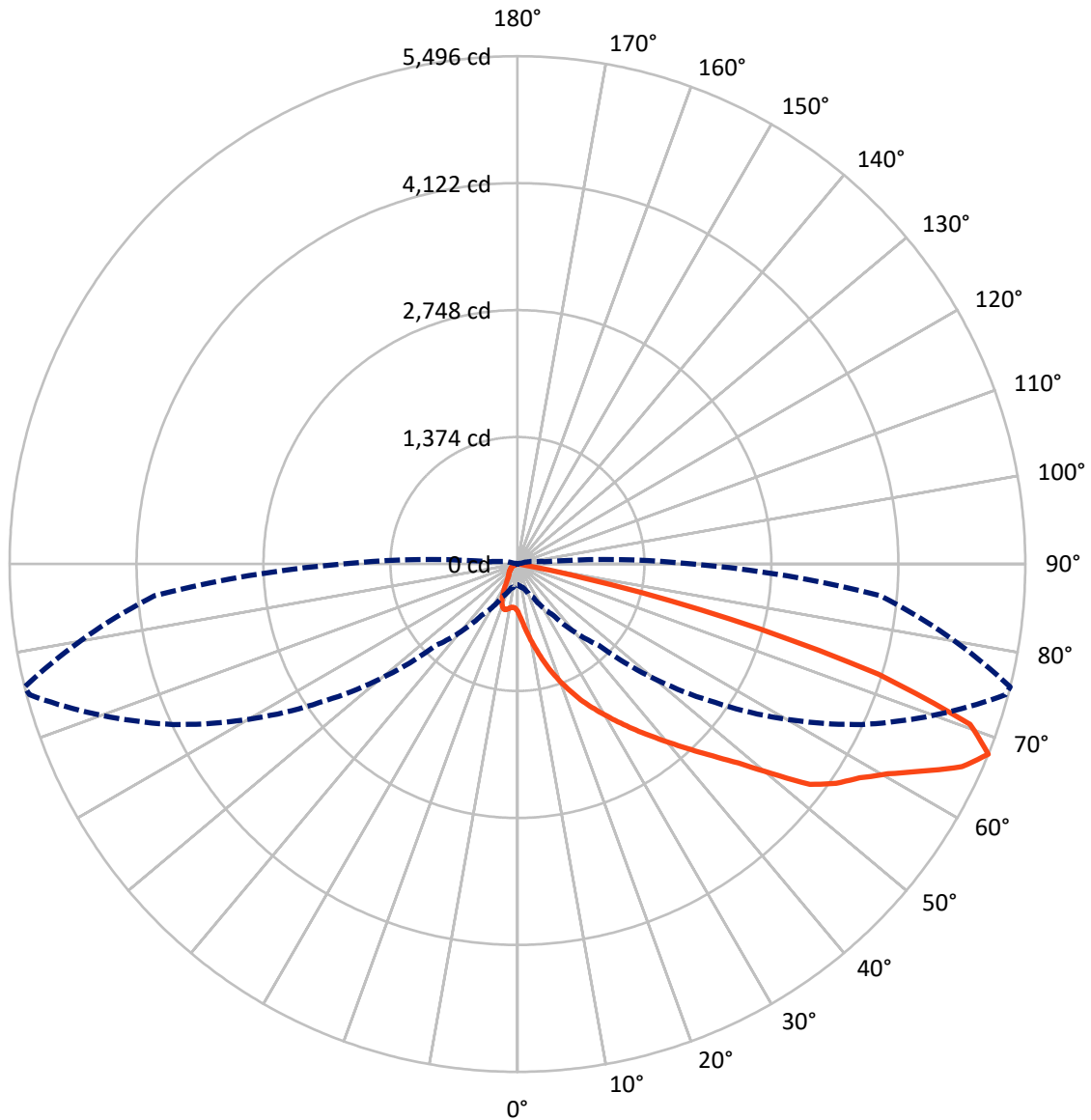
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 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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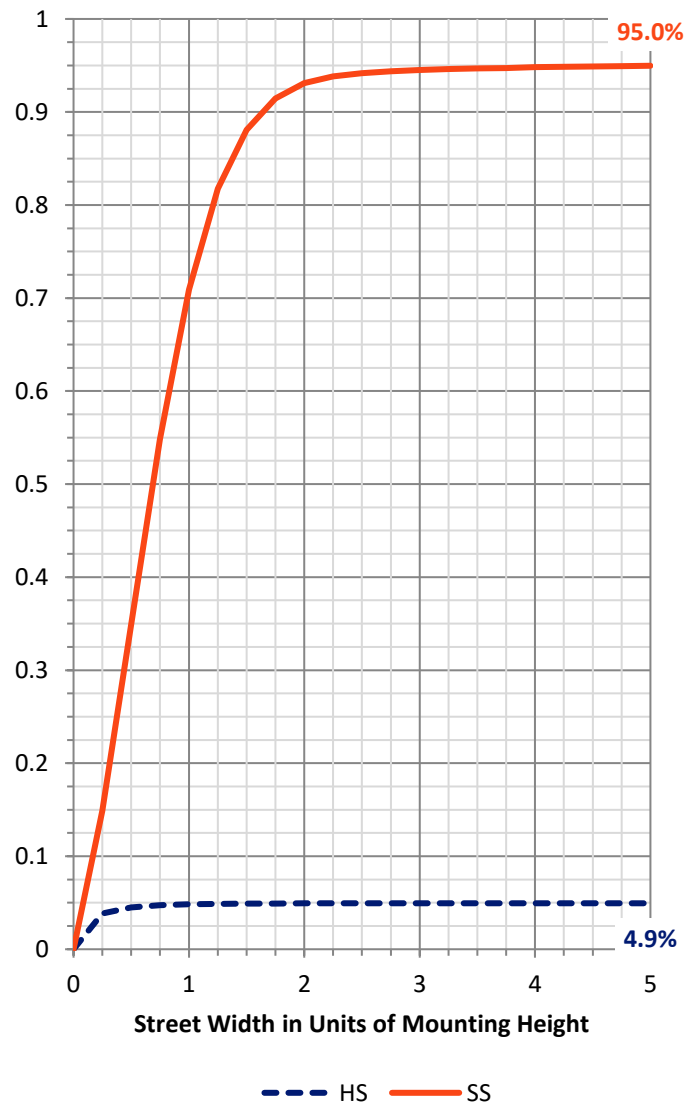
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.4	0.0	300.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5748.6	0.0	5748.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	6049.0	0.0	6049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.1
10°-20°	252.9	4.2
20°-30°	514.6	8.5
30°-40°	893.3	14.8
40°-50°	1262.1	20.9
50°-60°	1431.2	23.7
60°-70°	1187.1	19.6
70°-80°	430.0	7.1
80°-90°	13.9	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°	6049.0	100.0
0°-180°	6049.0	100.0

Coefficient of Utilization



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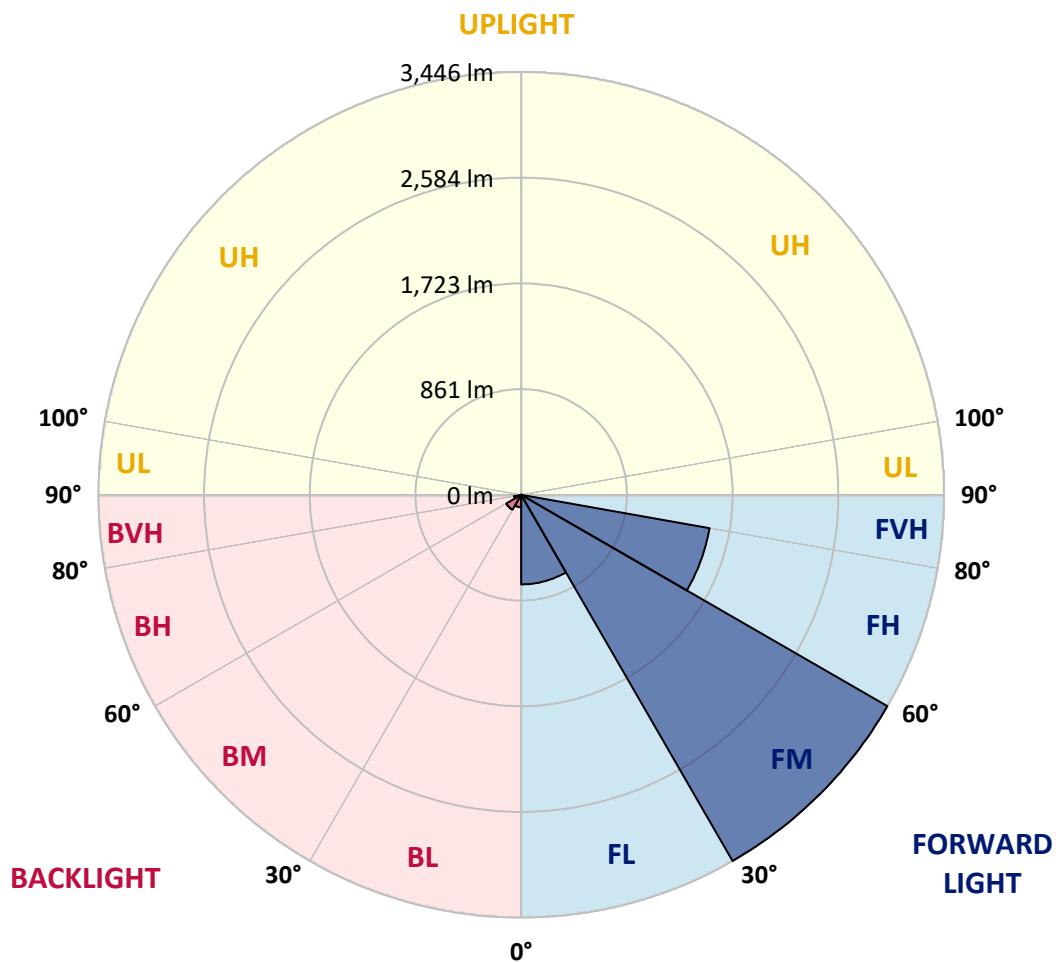
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.1	12.1			
FM	(30°-60°)	3446.0	57.0			
FH	(60°-80°)	1559.0	25.8			G1/1800
FVH	(80°-90°)	13.5	0.2			G1/100
BL	(0°-30°)	101.3	1.7	B0/110		
BM	(30°-60°)	140.6	2.3	B0/220		
BH	(60°-80°)	58.0	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°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	766.0	748.8	752.7	741.6	721.5	680.1	644.9	611.5	572.5	571.2	539.1
5°	1032.9	1018.3	1016.5	993.9	957.3	887.1	818.7	740.8	653.9	647.5	579.4
7.5°	1275.1	1263.5	1259.2	1232.5	1164.4	1096.0	1006.9	892.4	756.4	744.8	633.7
10°	1461.2	1455.6	1456.7	1437.6	1379.3	1315.7	1198.8	1052.8	872.8	854.8	698.9
12.5°	1602.2	1603.5	1613.1	1601.4	1568.8	1521.6	1396.8	1223.7	1001.6	977.0	773.4
15°	1705.8	1712.5	1730.0	1744.5	1742.2	1701.3	1586.8	1397.3	1138.4	1111.1	856.4
17.5°	1772.9	1780.3	1805.8	1838.1	1867.8	1858.2	1770.2	1564.8	1276.7	1245.2	945.2
20°	1831.7	1840.5	1867.8	1910.5	1965.9	1977.8	1920.0	1727.3	1414.8	1376.4	1036.9
22.5°	1959.2	1959.0	1975.7	2000.6	2053.3	2084.1	2047.5	1878.1	1551.3	1511.3	1130.4
25°	2189.8	2181.1	2175.2	2155.6	2167.3	2186.4	2166.0	2019.1	1688.6	1648.1	1225.3
27.5°	2463.9	2469.2	2422.0	2369.3	2328.4	2308.8	2275.4	2149.8	1820.6	1776.1	1318.1
30°	2753.0	2754.6	2699.0	2631.6	2541.8	2467.3	2409.5	2274.6	1956.3	1907.8	1408.2
32.5°	3013.8	3003.5	2948.4	2856.7	2743.2	2659.5	2539.4	2414.0	2100.0	2053.1	1508.4
35°	3220.6	3208.4	3141.3	3057.8	2940.2	2855.9	2711.4	2553.2	2251.0	2205.2	1608.8
37.5°	3371.7	3357.3	3288.4	3202.6	3101.0	3052.0	2911.0	2704.5	2415.9	2366.6	1714.6
40°	3424.1	3411.7	3368.5	3305.7	3224.0	3212.9	3122.8	2878.7	2595.3	2542.9	1834.4
42.5°	3392.9	3380.7	3365.3	3344.1	3310.2	3320.8	3322.6	3077.2	2794.7	2743.0	1966.6
45°	3268.8	3258.0	3273.9	3304.9	3347.0	3399.5	3505.0	3290.6	3017.3	2962.2	2119.6
47.5°	3086.2	3078.3	3122.3	3199.6	3322.9	3467.6	3671.7	3514.8	3267.2	3216.1	2310.4
50°	2826.5	2825.1	2913.1	3054.4	3243.9	3500.5	3844.0	3769.8	3614.4	3560.6	2575.7
52.5°	2422.0	2424.6	2597.7	2823.8	3105.3	3478.2	3954.8	4097.4	4018.4	3962.4	2805.5
55°	2036.9	2052.8	2175.5	2501.5	2892.7	3395.5	3992.9	4250.3	4241.3	4188.3	2933.3
57.5°	1659.7	1688.6	1806.8	2111.4	2582.3	3204.9	3972.0	4316.6	4407.2	4366.6	3101.8
60°	1251.0	1264.3	1400.5	1685.2	2184.0	2857.2	3820.1	4352.6	4634.1	4606.0	3346.5
62.5°	795.9	829.1	949.9	1224.5	1700.5	2374.3	3564.1	4352.1	4917.9	4933.3	3662.2
65°	419.3	458.0	522.1	758.8	1168.6	1834.9	3179.0	4311.2	5266.2	5287.7	3908.9
67.5°	226.1	237.2	271.1	393.9	677.7	1243.1	2613.1	4109.8	5467.9	5496.3	3943.4
70°	165.4	171.5	184.2	217.9	341.1	722.0	1906.7	3653.1	5207.9	5197.3	3503.7
72.5°	127.0	136.5	146.0	159.6	196.1	385.4	1187.1	2860.6	4155.4	4085.4	2618.9
75°	100.2	101.8	115.3	127.5	147.1	219.5	527.2	1666.1	2536.2	2370.6	1358.1
77.5°	80.0	81.1	89.1	99.7	118.2	144.2	163.3	655.5	809.7	722.5	294.7
80°	47.4	50.1	66.3	76.9	98.1	90.9	59.6	142.3	126.4	114.5	49.6
82.5°	26.5	28.6	37.4	60.7	68.4	43.5	29.7	38.4	29.7	28.9	14.0
85°	0.0	1.3	24.1	37.6	27.8	9.5	12.5	12.7	8.7	8.2	5.6
87.5°	0.0	0.0	7.4	7.2	1.1	1.6	2.9	4.2	3.4	3.4	2.9
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°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	523.2	508.9	481.9	455.4	433.1	414.8	398.4	391.7	386.4	385.6	381.4
5°	546.5	517.6	466.0	423.5	395.2	375.0	357.8	347.2	339.0	335.8	332.9
7.5°	581.8	538.0	463.8	415.1	381.1	347.2	315.4	280.9	259.5	251.3	246.5
10°	624.7	565.1	471.8	412.7	353.3	281.7	229.0	185.3	167.5	161.7	160.1
12.5°	674.8	598.7	485.6	397.8	293.9	200.1	158.0	143.1	139.1	137.3	137.3
15°	732.3	635.6	495.4	354.9	217.3	151.3	136.8	129.9	125.6	123.2	123.5
17.5°	791.2	671.6	490.6	292.6	160.4	134.6	123.8	116.4	110.5	108.1	107.6
20°	850.5	705.0	464.1	217.9	135.7	122.2	110.0	101.8	95.9	93.6	93.0
22.5°	912.0	733.4	417.4	159.8	121.9	108.4	96.5	88.3	82.7	80.6	79.5
25°	971.9	756.4	352.2	129.3	108.9	95.4	84.0	76.3	71.3	69.2	68.9
27.5°	1027.9	771.0	276.7	114.2	97.5	83.8	73.4	66.5	62.3	60.7	60.4
30°	1078.2	772.3	204.6	103.1	87.5	73.7	64.1	58.0	54.3	52.7	52.2
32.5°	1129.1	761.2	149.0	93.0	78.2	64.9	55.7	50.9	48.2	46.9	46.9
35°	1177.1	735.5	116.1	84.3	69.2	56.5	49.0	45.6	44.0	42.7	42.7
37.5°	1224.0	698.7	98.6	76.6	60.7	49.3	43.2	41.1	39.8	38.4	38.4
40°	1271.7	652.3	89.6	69.4	53.8	43.7	38.4	36.6	35.3	34.2	33.9
42.5°	1330.3	598.7	83.8	62.8	47.7	38.7	33.9	31.8	30.7	29.7	29.2
45°	1398.1	552.6	79.0	56.2	42.7	34.5	29.4	27.3	25.7	24.4	24.1
47.5°	1495.9	519.2	72.6	49.0	37.9	30.0	25.4	23.1	20.7	19.3	19.1
50°	1620.8	491.7	64.4	42.7	33.1	25.4	21.2	18.3	16.2	14.8	14.8
52.5°	1682.8	455.6	57.0	37.1	27.8	21.5	17.2	13.8	12.7	11.4	11.4
55°	1707.7	428.1	49.6	31.5	23.1	17.8	13.5	10.6	9.8	9.0	8.7
57.5°	1777.7	420.1	43.2	26.8	19.1	14.0	10.3	8.0	7.4	6.4	6.4
60°	1890.3	424.1	37.4	22.8	15.4	10.9	7.7	6.1	5.6	4.5	4.5
62.5°	2012.0	419.0	31.5	19.6	11.9	8.0	5.3	4.5	4.5	2.7	2.4
65°	2035.3	373.2	27.0	16.2	9.3	5.8	3.4	2.9	4.0	0.5	0.0
67.5°	1889.0	289.4	23.3	12.5	6.9	4.5	2.7	1.3	3.4	0.0	0.0
70°	1510.5	183.9	18.8	9.0	5.3	3.7	2.1	0.5	2.7	0.0	0.0
72.5°	1068.1	106.8	14.8	6.4	4.5	2.9	1.6	0.0	1.6	0.0	0.0
75°	540.2	57.0	9.3	4.8	3.4	2.1	1.1	0.0	0.3	0.0	0.0
77.5°	116.9	26.5	5.8	3.4	2.4	1.3	0.5	0.0	0.0	0.0	0.0
80°	25.4	11.7	3.7	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	6.1	1.9	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	3.2	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.1	0.3	0.3	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)