

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: P348791

Luminaire Tested: **ARCH-N-PA1-60-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348791
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-PA1-60-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4447 lumens
Efficiency: N/A
Efficacy: 71.7 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

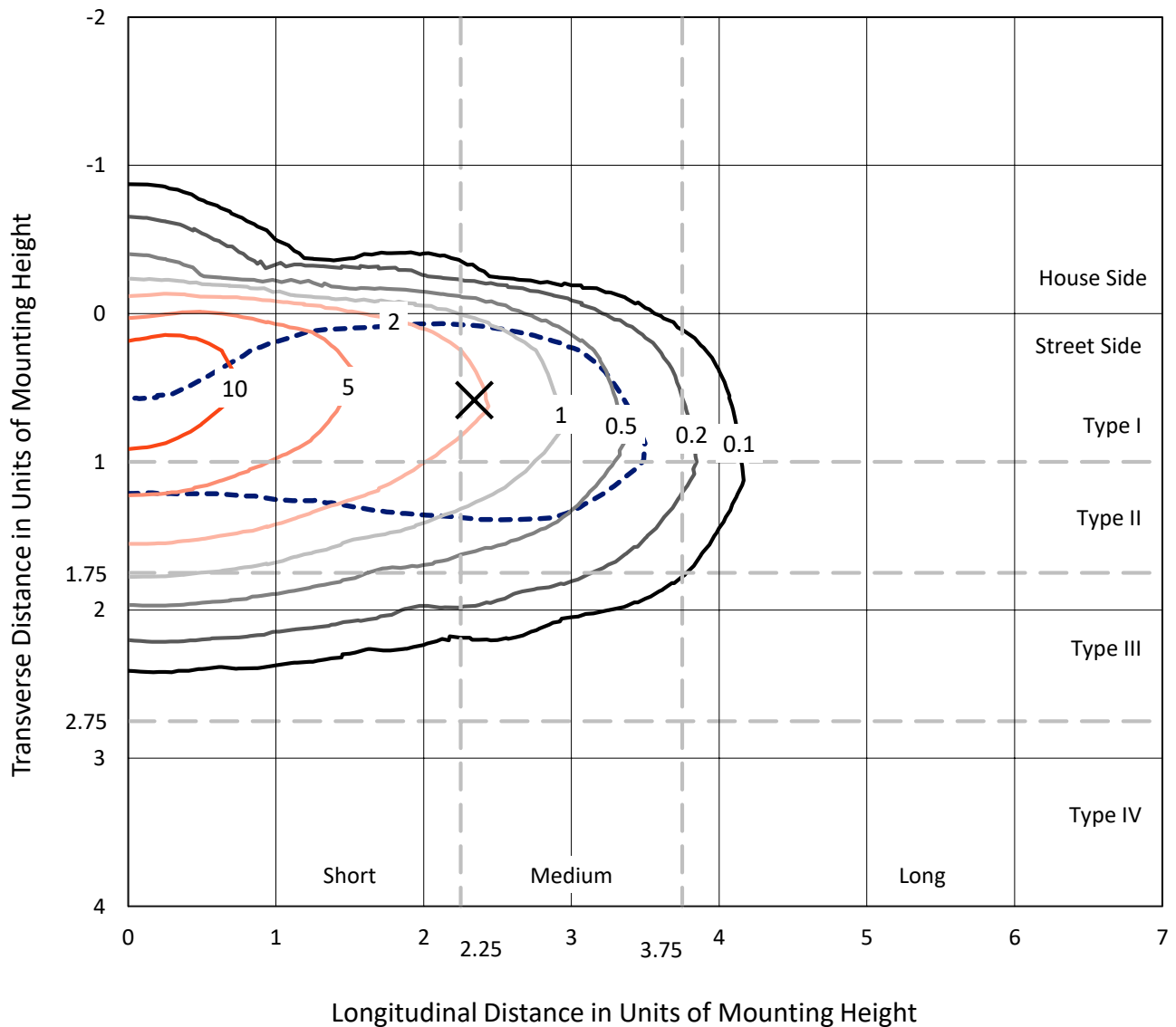
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

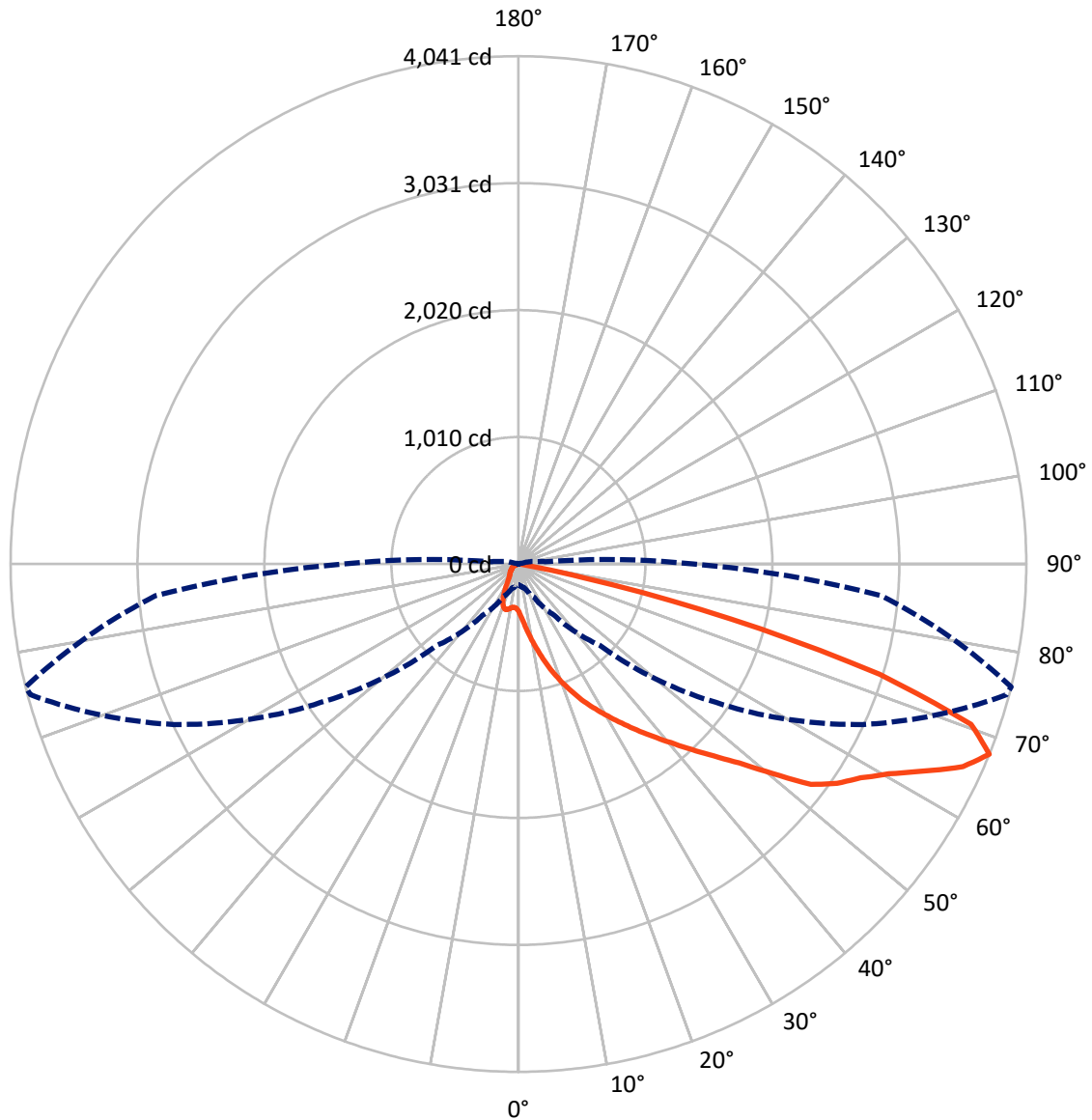
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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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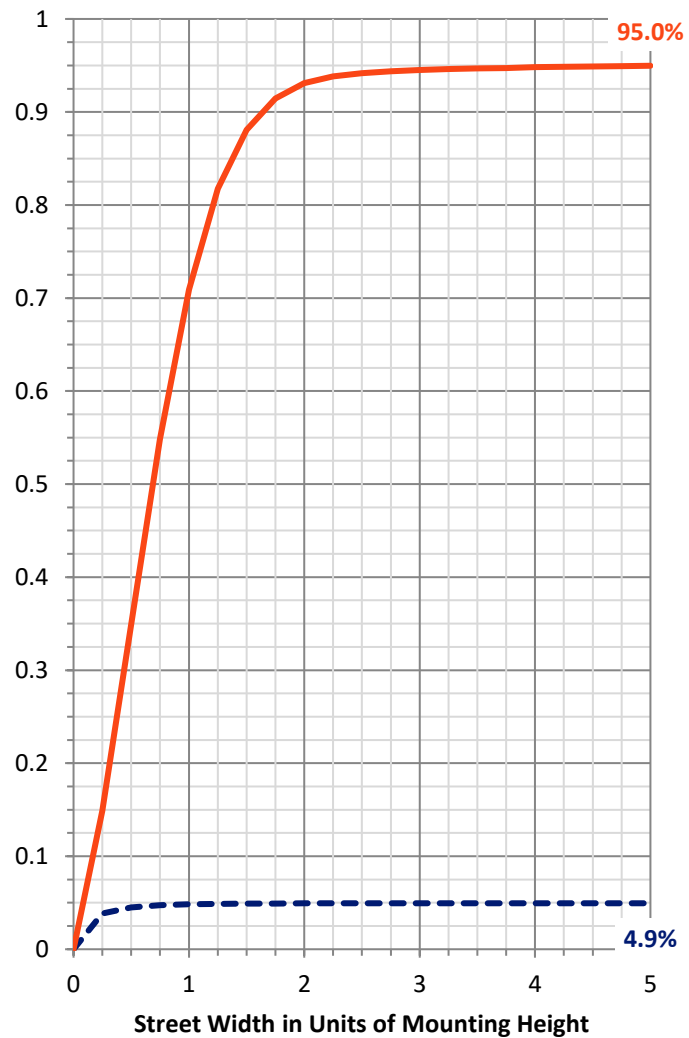
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.8	0.0	220.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4226.2	0.0	4226.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	4447.0	0.0	4447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.1
10°-20°	186.0	4.2
20°-30°	378.4	8.5
30°-40°	656.7	14.8
40°-50°	927.8	20.9
50°-60°	1052.2	23.7
60°-70°	872.7	19.6
70°-80°	316.1	7.1
80°-90°	10.3	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°	4447.0	100.0
0°-180°	4447.0	100.0

Coefficient of Utilization



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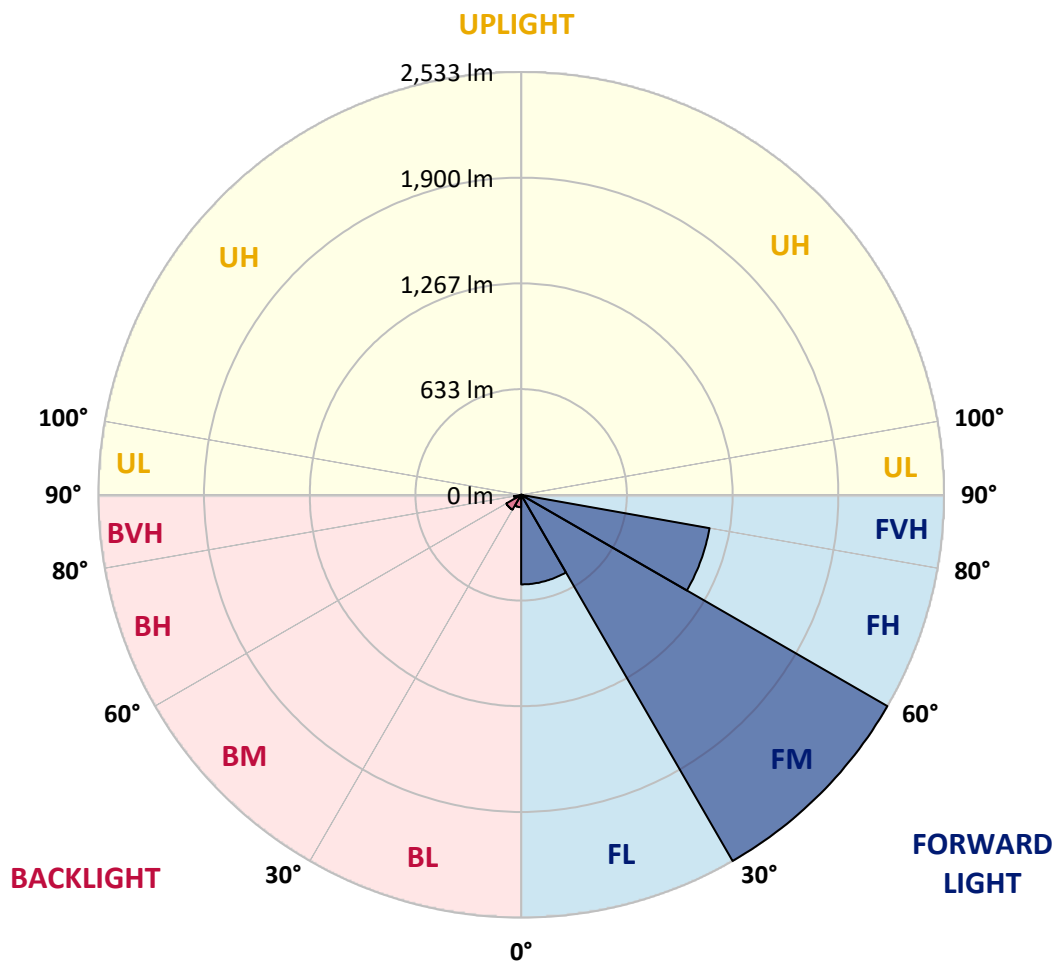
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.7	12.1			
FM	(30°-60°)	2533.4	57.0			
FH	(60°-80°)	1146.1	25.8			G1/1800
FVH	(80°-90°)	9.9	0.2			G0/10
BL	(0°-30°)	74.5	1.7	B0/110		
BM	(30°-60°)	103.4	2.3	B0/220		
BH	(60°-80°)	42.7	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2
2.5°	563.1	550.5	553.4	545.2	530.4	500.0	474.1	449.5	420.9	419.9	396.3
5°	759.3	748.6	747.3	730.7	703.8	652.2	601.9	544.6	480.7	476.0	425.9
7.5°	937.4	928.9	925.7	906.1	856.0	805.7	740.2	656.1	556.1	547.5	465.9
10°	1074.2	1070.1	1070.9	1056.9	1014.0	967.2	881.3	774.0	641.6	628.4	513.8
12.5°	1177.9	1178.9	1185.9	1177.3	1153.3	1118.6	1026.9	899.6	736.3	718.2	568.6
15°	1254.1	1258.9	1271.8	1282.5	1280.8	1250.8	1166.6	1027.3	836.9	816.8	629.6
17.5°	1303.4	1308.8	1327.5	1351.3	1373.1	1366.1	1301.4	1150.4	938.6	915.4	694.8
20°	1346.6	1353.1	1373.1	1404.5	1445.2	1454.0	1411.5	1269.9	1040.1	1011.9	762.3
22.5°	1440.3	1440.2	1452.4	1470.7	1509.5	1532.1	1505.2	1380.7	1140.5	1111.0	831.0
25°	1609.9	1603.4	1599.2	1584.7	1593.3	1607.3	1592.3	1484.4	1241.4	1211.6	900.8
27.5°	1811.3	1815.2	1780.6	1741.8	1711.8	1697.4	1672.8	1580.4	1338.4	1305.7	969.0
30°	2023.9	2025.1	1984.2	1934.7	1868.6	1813.9	1771.4	1672.2	1438.2	1402.5	1035.3
32.5°	2215.7	2208.1	2167.5	2100.1	2016.7	1955.1	1866.9	1774.7	1543.8	1509.3	1108.9
35°	2367.7	2358.7	2309.4	2248.0	2161.5	2099.5	1993.3	1877.0	1654.9	1621.2	1182.8
37.5°	2478.7	2468.2	2417.5	2354.4	2279.8	2243.7	2140.1	1988.3	1776.1	1739.8	1260.5
40°	2517.3	2508.1	2476.4	2430.2	2370.2	2362.0	2295.8	2116.3	1908.0	1869.4	1348.6
42.5°	2494.3	2485.3	2474.0	2458.5	2433.5	2441.3	2442.7	2262.2	2054.5	2016.5	1445.8
45°	2403.1	2395.1	2406.8	2429.6	2460.6	2499.2	2576.7	2419.1	2218.2	2177.7	1558.2
47.5°	2268.9	2263.0	2295.4	2352.3	2442.9	2549.3	2699.3	2583.9	2401.9	2364.3	1698.5
50°	2077.9	2076.9	2141.6	2245.5	2384.8	2573.4	2825.9	2771.4	2657.2	2617.6	1893.6
52.5°	1780.6	1782.5	1909.7	2076.0	2282.9	2557.0	2907.4	3012.2	2954.2	2913.0	2062.5
55°	1497.4	1509.1	1599.3	1839.0	2126.6	2496.3	2935.5	3124.7	3118.0	3079.1	2156.4
57.5°	1220.2	1241.4	1328.3	1552.2	1898.4	2356.2	2920.1	3173.4	3240.0	3210.2	2280.4
60°	919.7	929.4	1029.6	1238.9	1605.6	2100.5	2808.4	3199.9	3406.8	3386.1	2460.2
62.5°	585.1	609.5	698.4	900.2	1250.2	1745.5	2620.2	3199.5	3615.5	3626.8	2692.3
65°	308.3	336.7	383.9	557.9	859.1	1349.0	2337.1	3169.5	3871.5	3887.3	2873.7
67.5°	166.2	174.4	199.3	289.6	498.2	913.9	1921.1	3021.4	4019.8	4040.7	2899.0
70°	121.6	126.1	135.4	160.2	250.8	530.8	1401.8	2685.7	3828.7	3820.9	2575.8
72.5°	93.3	100.3	107.4	117.3	144.2	283.3	872.7	2103.0	3054.9	3003.5	1925.3
75°	73.7	74.8	84.8	93.7	108.1	161.3	387.6	1224.8	1864.5	1742.8	998.4
77.5°	58.8	59.6	65.5	73.3	86.9	106.0	120.0	481.9	595.3	531.2	216.7
80°	34.9	36.8	48.7	56.5	72.1	66.8	43.8	104.6	92.9	84.2	36.4
82.5°	19.5	21.0	27.5	44.6	50.3	32.0	21.8	28.3	21.8	21.2	10.3
85°	0.0	1.0	17.7	27.7	20.5	7.0	9.2	9.4	6.4	6.0	4.1
87.5°	0.0	0.0	5.5	5.3	0.8	1.2	2.1	3.1	2.5	2.5	2.1
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°	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2
2.5°	384.6	374.1	354.2	334.8	318.4	304.9	292.9	288.0	284.1	283.5	280.4
5°	401.8	380.5	342.6	311.4	290.5	275.7	263.1	255.3	249.2	246.9	244.7
7.5°	427.7	395.6	341.0	305.1	280.2	255.3	231.9	206.5	190.8	184.7	181.2
10°	459.3	415.4	346.8	303.4	259.7	207.1	168.4	136.2	123.1	118.9	117.7
12.5°	496.1	440.2	357.0	292.5	216.1	147.1	116.1	105.2	102.3	100.9	100.9
15°	538.4	467.3	364.2	260.9	159.8	111.3	100.5	95.5	92.4	90.6	90.8
17.5°	581.6	493.8	360.7	215.1	117.9	99.0	91.0	85.5	81.3	79.5	79.1
20°	625.3	518.3	341.2	160.2	99.8	89.8	80.9	74.8	70.5	68.8	68.4
22.5°	670.5	539.2	306.9	117.5	89.6	79.7	70.9	64.9	60.8	59.2	58.5
25°	714.5	556.1	259.0	95.1	80.1	70.1	61.8	56.1	52.4	50.9	50.7
27.5°	755.6	566.8	203.4	84.0	71.7	61.6	54.0	48.9	45.8	44.6	44.4
30°	792.7	567.8	150.4	75.8	64.3	54.2	47.2	42.7	39.9	38.8	38.4
32.5°	830.1	559.6	109.5	68.4	57.5	47.7	40.9	37.4	35.5	34.5	34.5
35°	865.3	540.7	85.3	62.0	50.9	41.5	36.0	33.5	32.3	31.4	31.4
37.5°	899.8	513.6	72.5	56.3	44.6	36.2	31.8	30.2	29.2	28.3	28.3
40°	934.9	479.5	65.9	51.1	39.6	32.2	28.3	26.9	25.9	25.1	24.9
42.5°	978.0	440.2	61.6	46.2	35.1	28.4	24.9	23.4	22.6	21.8	21.4
45°	1027.8	406.3	58.1	41.3	31.4	25.3	21.6	20.1	18.9	17.9	17.7
47.5°	1099.7	381.7	53.4	36.0	27.9	22.0	18.7	17.0	15.2	14.2	14.0
50°	1191.5	361.5	47.3	31.4	24.4	18.7	15.6	13.4	11.9	10.9	10.9
52.5°	1237.1	335.0	41.9	27.3	20.5	15.8	12.7	10.1	9.4	8.4	8.4
55°	1255.4	314.7	36.4	23.2	17.0	13.1	9.9	7.8	7.2	6.6	6.4
57.5°	1306.9	308.8	31.8	19.7	14.0	10.3	7.6	5.8	5.5	4.7	4.7
60°	1389.7	311.8	27.5	16.8	11.3	8.0	5.7	4.5	4.1	3.3	3.3
62.5°	1479.1	308.1	23.2	14.4	8.8	5.8	3.9	3.3	3.3	1.9	1.8
65°	1496.3	274.4	19.9	11.9	6.8	4.3	2.5	2.1	2.9	0.4	0.0
67.5°	1388.7	212.8	17.1	9.2	5.1	3.3	1.9	1.0	2.5	0.0	0.0
70°	1110.5	135.2	13.8	6.6	3.9	2.7	1.6	0.4	1.9	0.0	0.0
72.5°	785.3	78.5	10.9	4.7	3.3	2.1	1.2	0.0	1.2	0.0	0.0
75°	397.1	41.9	6.8	3.5	2.5	1.6	0.8	0.0	0.2	0.0	0.0
77.5°	85.9	19.5	4.3	2.5	1.8	1.0	0.4	0.0	0.0	0.0	0.0
80°	18.7	8.6	2.7	1.6	1.0	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	4.5	1.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.8	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)