

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: P397914

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7000 lumens
Efficiency: N/A
Efficacy: 109.4 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 - G2

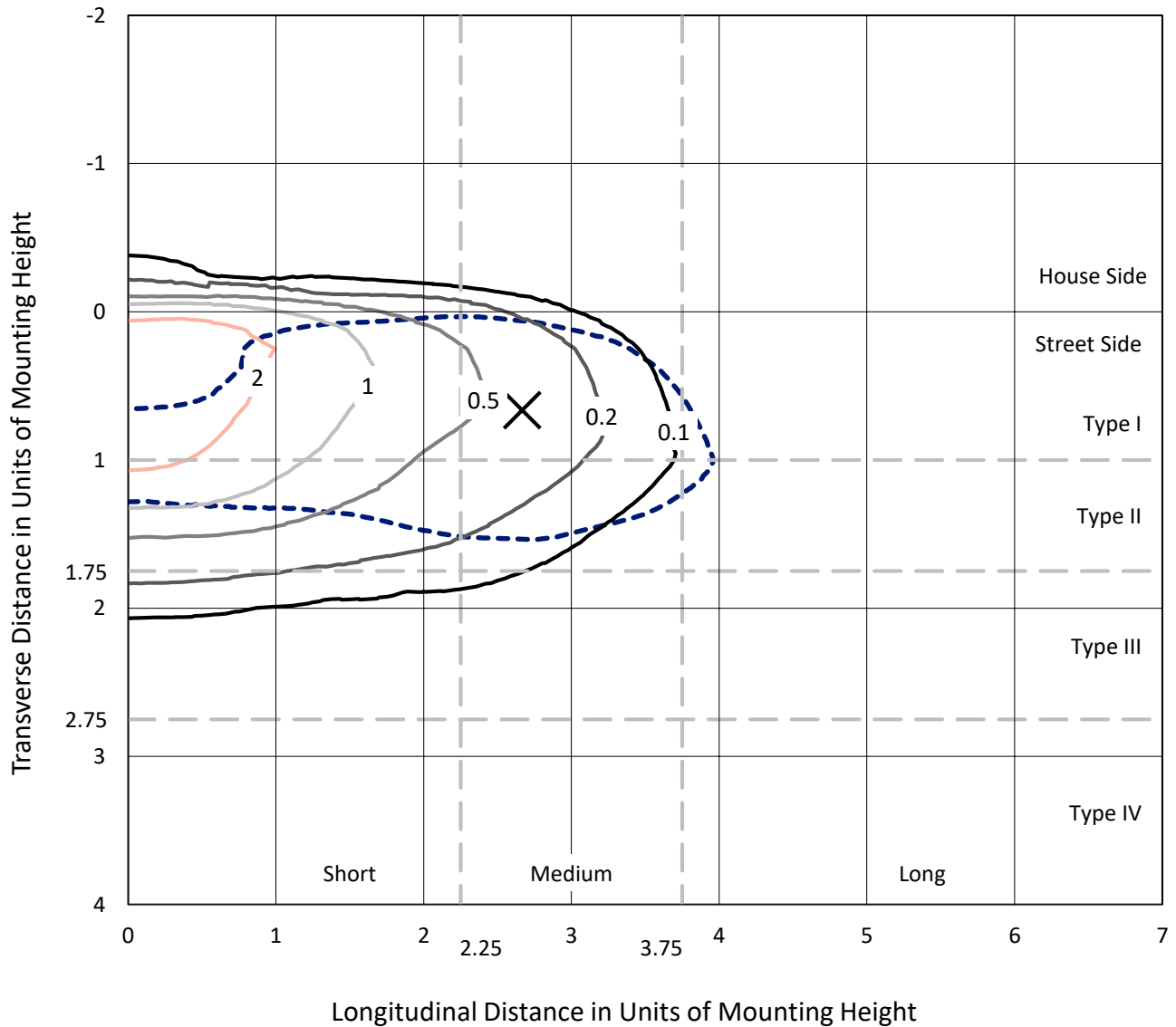
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

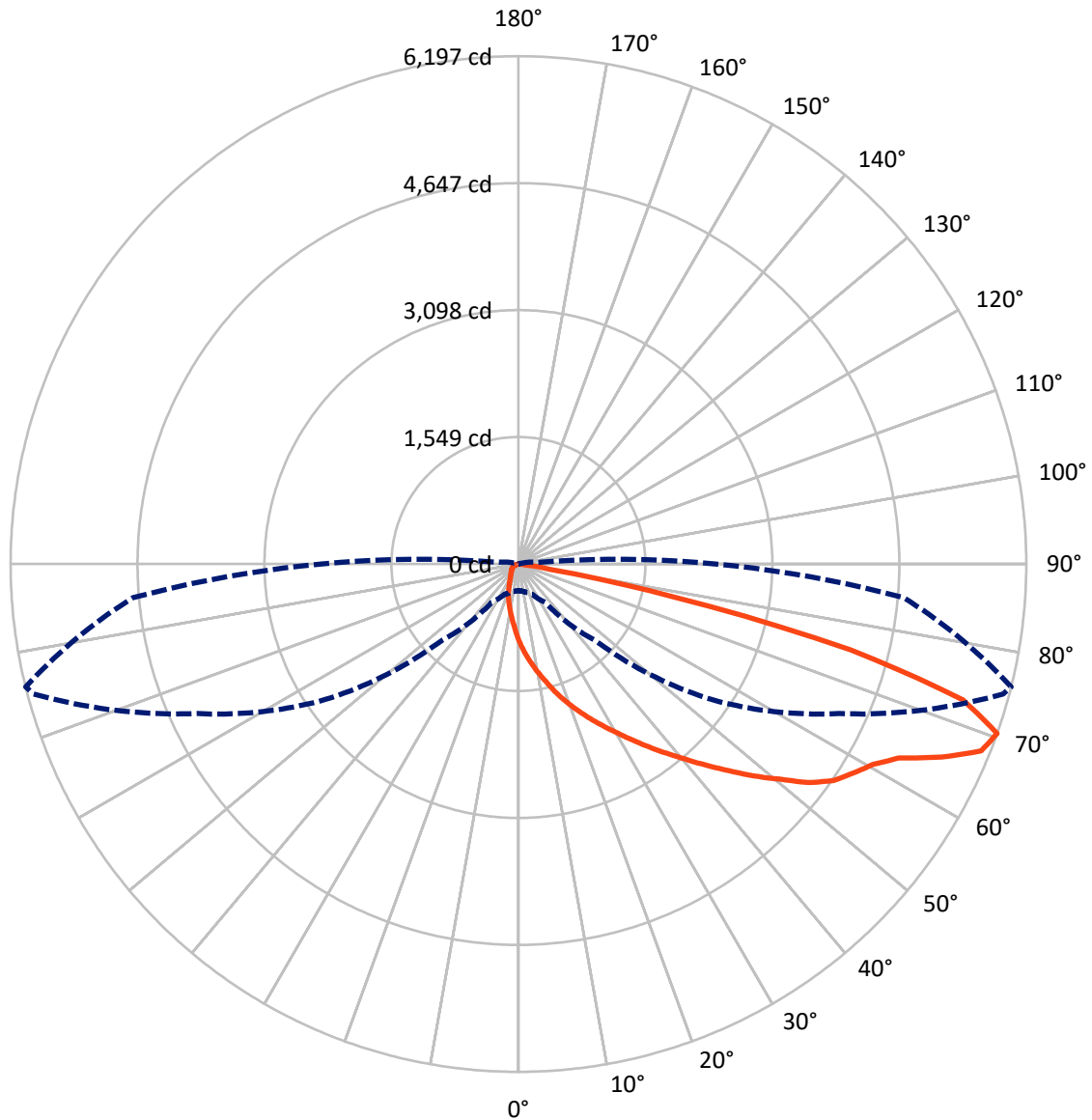
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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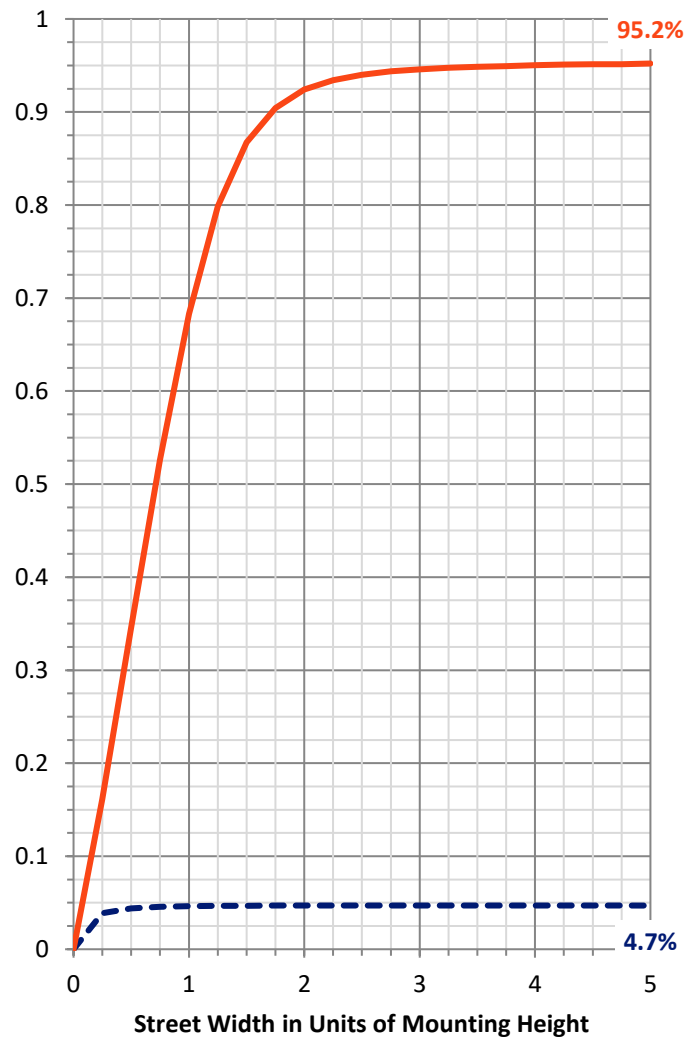
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.2	0.0	330.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	6669.9	0.0	6669.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	7000.0	0.0	7000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.3
10°-20°	284.9	4.1
20°-30°	530.6	7.6
30°-40°	938.5	13.4
40°-50°	1435.2	20.5
50°-60°	1627.1	23.2
60°-70°	1394.8	19.9
70°-80°	675.6	9.7
80°-90°	25.1	0.4
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°	7000.0	100.0
0°-180°	7000.0	100.0

Coefficient of Utilization



--- HS — SS

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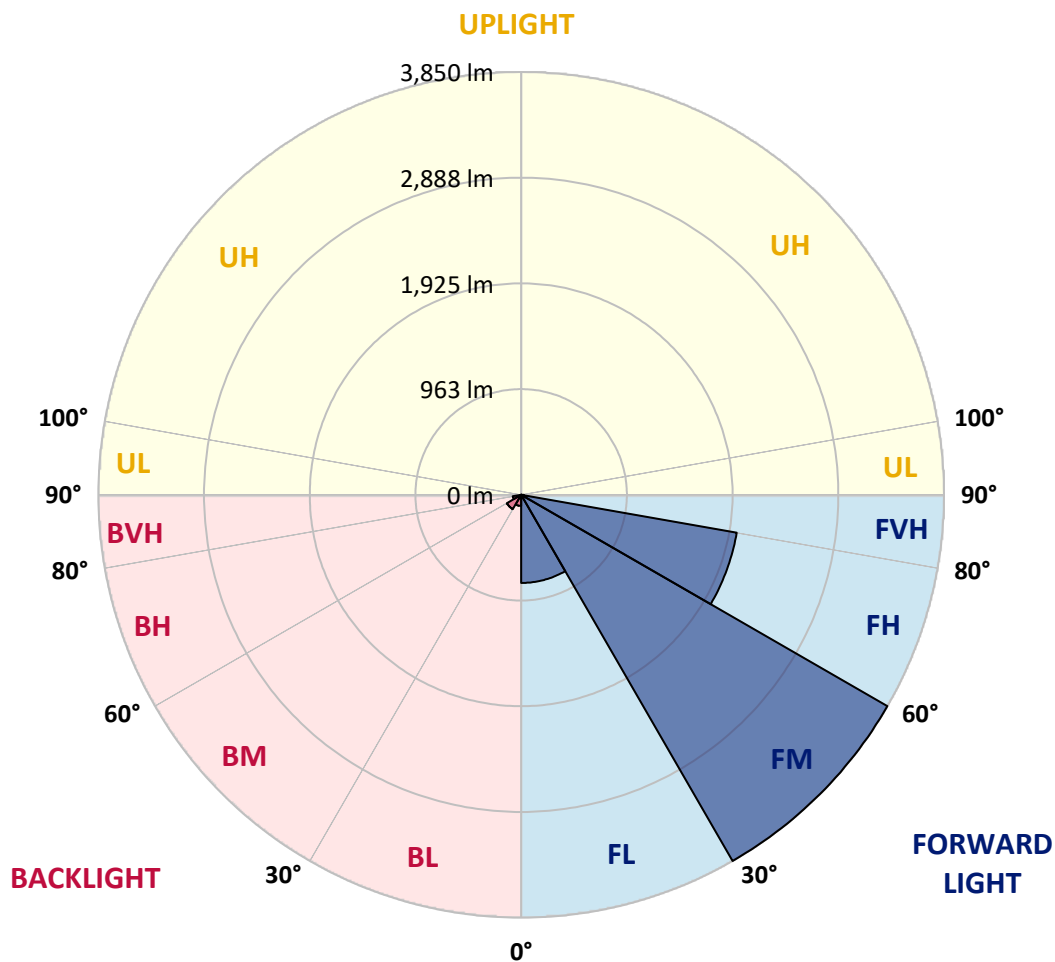
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	802.5	11.5			
FM	(30°-60°)	3850.1	55.0			
FH	(60°-80°)	1992.7	28.5			G2/5000
FVH	(80°-90°)	24.6	0.4			G1/100
BL	(0°-30°)	101.3	1.4	B0/110		
BM	(30°-60°)	150.7	2.2	B0/220		
BH	(60°-80°)	77.7	1.1	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0
2.5°	1280.8	1273.8	1266.8	1240.0	1215.5	1193.4	1151.4	1096.7	1047.7	1037.2	980.1
5°	1504.6	1496.4	1485.9	1459.1	1427.6	1390.3	1328.6	1244.7	1158.4	1139.8	1033.7
7.5°	1656.1	1649.1	1633.9	1621.1	1589.6	1553.5	1484.7	1386.8	1268.0	1244.7	1095.5
10°	1759.8	1755.1	1752.8	1742.3	1719.0	1689.9	1621.1	1518.5	1378.7	1351.9	1160.8
12.5°	1797.1	1797.1	1808.7	1826.2	1829.7	1820.4	1757.4	1654.9	1495.2	1467.3	1237.7
15°	1747.0	1752.8	1778.4	1834.4	1892.6	1931.1	1891.5	1795.9	1623.4	1593.1	1328.6
17.5°	1733.0	1738.8	1756.3	1805.2	1883.3	1985.9	2005.7	1932.3	1744.6	1719.0	1421.8
20°	1772.6	1778.4	1793.6	1835.5	1895.0	1998.7	2081.4	2064.0	1872.8	1846.0	1516.2
22.5°	1867.0	1870.5	1870.5	1903.1	1955.6	2032.5	2129.2	2188.7	2004.5	1975.4	1609.4
25°	2069.8	2062.8	2034.8	2018.5	2052.3	2115.2	2189.8	2298.2	2151.4	2111.7	1709.7
27.5°	2335.5	2358.8	2291.2	2213.1	2187.5	2223.6	2274.9	2394.9	2293.5	2251.6	1800.6
30°	2695.6	2686.3	2597.7	2485.8	2375.1	2362.3	2379.8	2477.7	2435.7	2396.1	1902.0
32.5°	2991.6	3009.1	2915.9	2779.5	2614.0	2535.9	2517.3	2576.7	2587.2	2561.6	2022.0
35°	3295.8	3314.4	3223.5	3072.0	2875.1	2744.6	2690.9	2699.1	2774.9	2742.2	2147.9
37.5°	3568.5	3584.8	3495.1	3340.1	3143.1	2983.5	2906.5	2843.6	2956.7	2927.5	2280.7
40°	3775.9	3778.3	3717.7	3579.0	3392.5	3227.0	3139.6	3016.1	3149.0	3129.1	2419.4
42.5°	3922.8	3927.5	3883.2	3764.3	3591.8	3438.0	3366.9	3220.0	3370.4	3352.9	2580.2
45°	3991.6	3999.7	3995.0	3885.5	3742.2	3609.3	3586.0	3436.8	3612.8	3596.5	2765.5
47.5°	3926.3	3926.3	3985.7	3970.6	3838.9	3750.3	3777.1	3662.9	3876.2	3861.0	2954.3
50°	3654.7	3658.2	3779.4	3953.1	3876.2	3856.4	3940.3	3884.3	4115.1	4124.4	3180.4
52.5°	2941.5	2935.7	3344.7	3678.1	3850.5	3904.1	4090.6	4110.4	4401.8	4429.7	3405.3
55°	2198.0	2194.5	2586.1	3190.9	3671.1	3879.7	4174.5	4312.0	4646.5	4664.0	3573.2
57.5°	1740.0	1730.6	1946.2	2572.1	3265.5	3770.1	4178.0	4350.5	4782.9	4813.2	3736.3
60°	1337.9	1329.7	1490.6	1913.6	2690.9	3478.8	4077.8	4352.8	4914.6	4968.2	3955.4
62.5°	956.8	966.1	1089.7	1372.9	2069.8	3067.4	3947.3	4385.5	5148.8	5209.4	4266.6
65°	645.6	641.0	743.5	934.7	1471.9	2513.8	3746.8	4454.2	5570.7	5676.7	4639.5
67.5°	448.7	452.2	498.8	608.3	934.7	1929.9	3413.5	4492.7	6006.6	6089.3	4900.6
70°	324.0	328.6	354.3	409.1	571.1	1308.8	2885.6	4316.7	6124.3	6196.5	4718.8
72.5°	213.3	222.6	261.1	290.2	364.8	819.3	2125.7	3718.8	5617.3	5670.9	3958.9
75°	115.4	117.7	167.8	216.8	259.9	510.5	1268.0	2508.0	4202.5	4185.0	2610.5
77.5°	89.7	93.2	103.7	155.0	174.8	280.9	501.1	1132.8	1990.5	1936.9	890.4
80°	54.8	57.1	72.3	92.1	122.4	163.2	146.8	307.7	404.4	378.8	130.5
82.5°	32.6	35.0	43.1	76.9	96.7	76.9	51.3	74.6	75.8	74.6	32.6
85°	5.8	5.8	30.3	53.6	51.3	22.1	30.3	24.5	22.1	23.3	7.0
87.5°	0.0	0.0	11.7	16.3	23.3	8.2	11.7	5.8	5.8	5.8	3.5
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°	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0	937.0
2.5°	945.2	905.5	823.9	752.9	681.8	629.3	589.7	548.9	534.9	517.4	508.1
5°	961.5	883.4	721.4	592.0	482.5	398.6	345.0	312.3	291.4	276.2	272.7
7.5°	985.9	865.9	638.6	463.8	343.8	259.9	215.6	193.5	181.8	174.8	172.5
10°	1015.1	850.8	557.1	361.3	242.4	183.0	158.5	149.2	144.5	142.2	141.0
12.5°	1055.9	844.9	488.3	278.5	183.0	150.3	137.5	131.7	128.2	124.7	123.5
15°	1109.5	847.3	425.4	215.6	151.5	134.0	123.5	117.7	113.0	109.5	109.5
17.5°	1165.4	850.8	363.6	174.8	137.5	122.4	110.7	102.6	99.1	95.6	94.4
20°	1217.9	849.6	304.2	149.2	124.7	109.5	97.9	89.7	83.9	80.4	80.4
22.5°	1268.0	842.6	248.2	134.0	114.2	96.7	83.9	75.8	71.1	67.6	67.6
25°	1321.6	828.6	202.8	122.4	101.4	85.1	72.3	64.1	60.6	57.1	57.1
27.5°	1363.5	805.3	165.5	111.9	89.7	73.4	61.8	54.8	51.3	48.9	48.9
30°	1409.0	771.5	137.5	100.2	78.1	62.9	52.4	46.6	43.1	42.0	42.0
32.5°	1459.1	734.2	117.7	88.6	66.4	53.6	44.3	40.8	37.3	36.1	36.1
35°	1517.4	701.6	106.1	76.9	58.3	45.5	38.5	35.0	32.6	32.6	32.6
37.5°	1583.8	667.8	95.6	67.6	50.1	38.5	32.6	31.5	30.3	29.1	29.1
40°	1656.1	631.7	86.2	59.4	43.1	32.6	28.0	28.0	26.8	26.8	26.8
42.5°	1737.6	600.2	78.1	52.4	37.3	28.0	24.5	24.5	23.3	23.3	23.3
45°	1826.2	571.1	71.1	46.6	32.6	24.5	22.1	21.0	19.8	19.8	19.8
47.5°	1931.1	554.7	65.3	40.8	28.0	21.0	18.6	17.5	16.3	15.2	15.2
50°	2065.1	561.7	59.4	33.8	24.5	17.5	15.2	14.0	12.8	11.7	11.7
52.5°	2171.2	558.2	51.3	29.1	19.8	14.0	11.7	10.5	9.3	8.2	8.2
55°	2248.1	544.2	44.3	24.5	15.2	11.7	9.3	7.0	5.8	5.8	5.8
57.5°	2323.8	530.3	37.3	19.8	11.7	8.2	5.8	4.7	4.7	4.7	4.7
60°	2441.5	510.5	32.6	16.3	9.3	5.8	3.5	3.5	2.3	2.3	2.3
62.5°	2584.9	486.0	26.8	14.0	7.0	4.7	2.3	2.3	0.0	0.0	0.0
65°	2742.2	442.9	22.1	10.5	5.8	3.5	2.3	0.0	0.0	0.0	0.0
67.5°	2706.1	355.5	18.6	7.0	4.7	2.3	1.2	0.0	0.0	0.0	0.0
70°	2393.8	240.1	15.2	5.8	3.5	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	1875.2	142.2	10.5	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1200.4	71.1	7.0	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	402.1	35.0	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.1	11.7	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	0.0	0.0	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)