

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: P799554

Luminaire Tested: **ARCH2-30-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3812 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 34.4
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: 24 FT

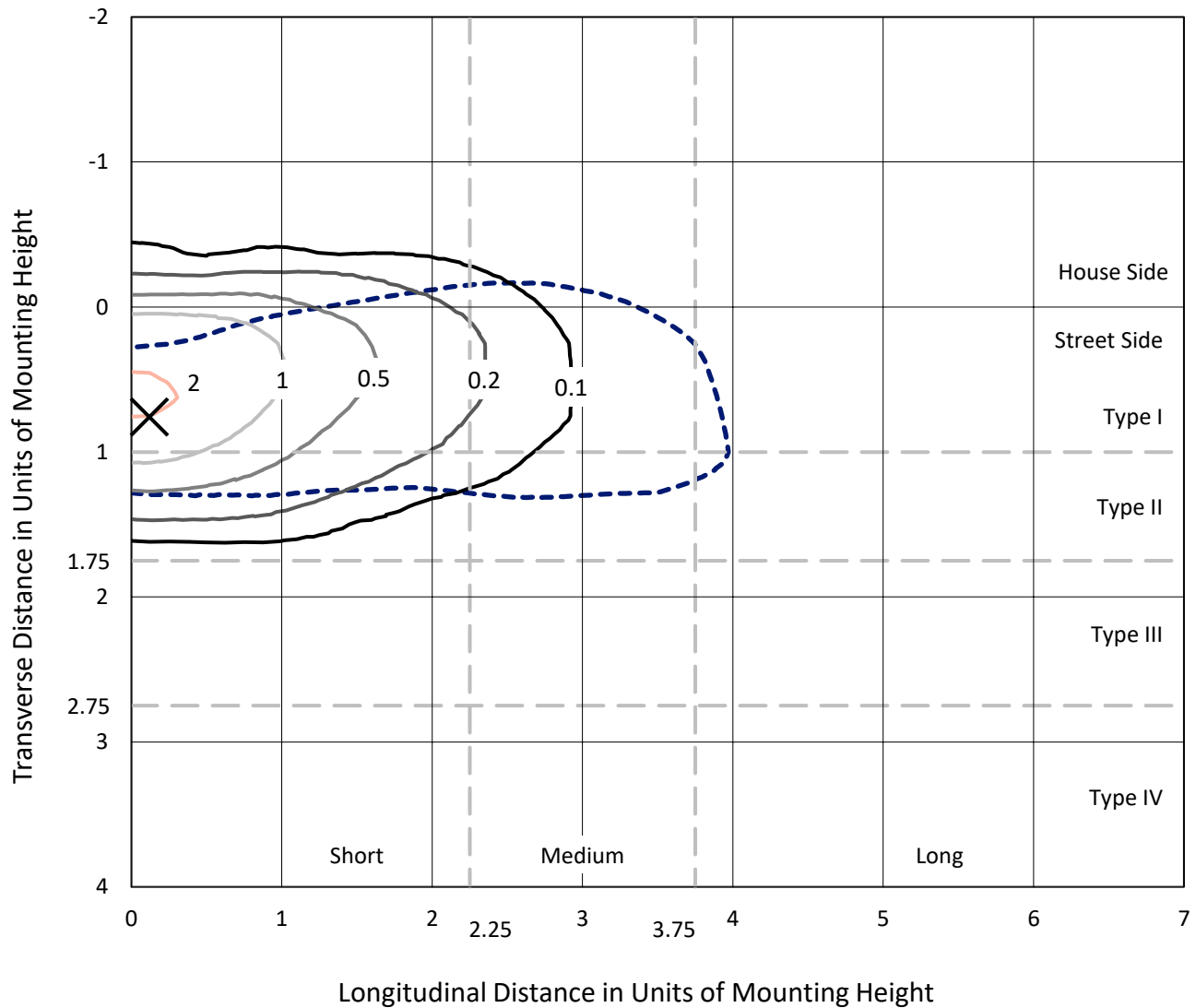


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

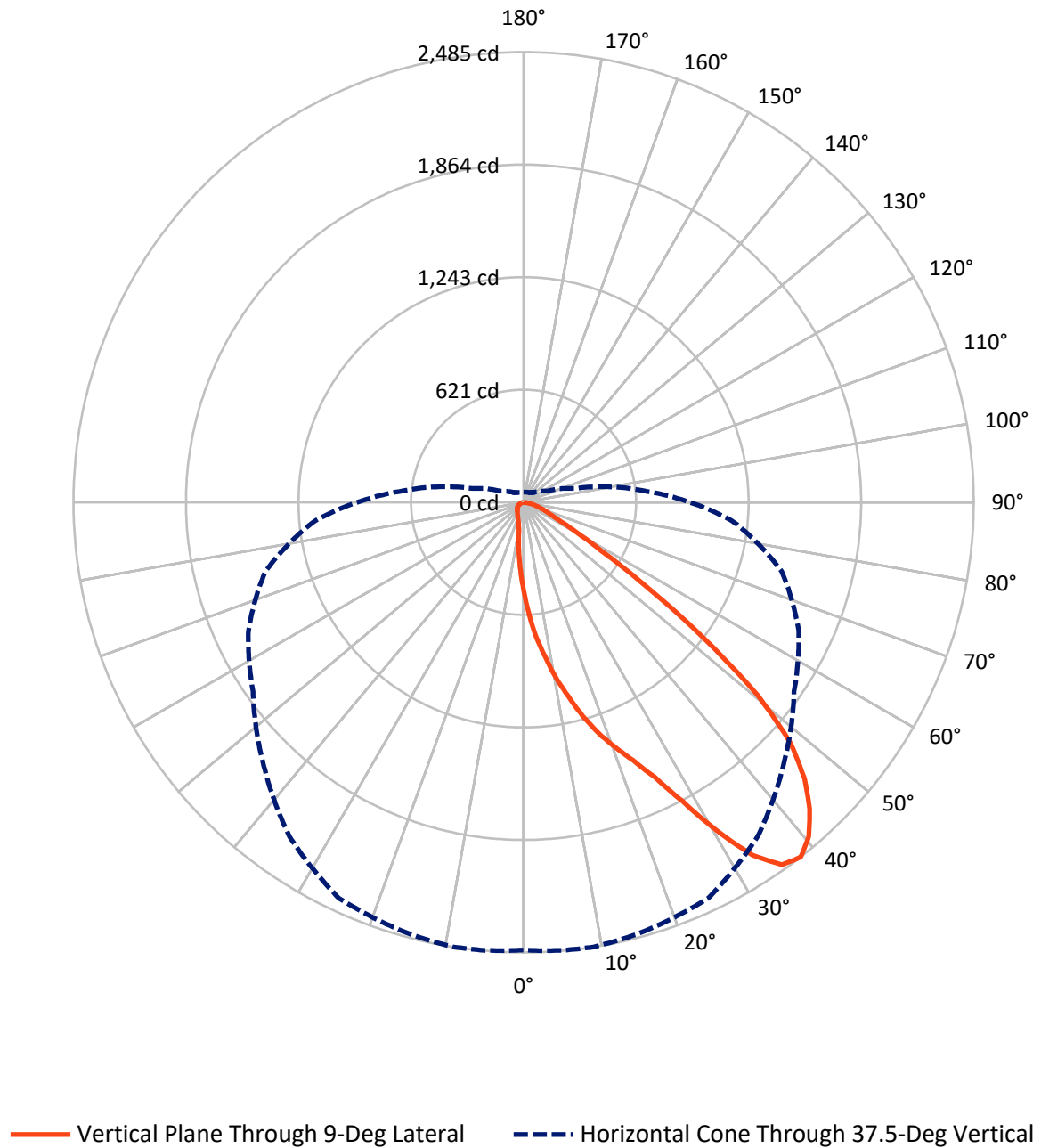


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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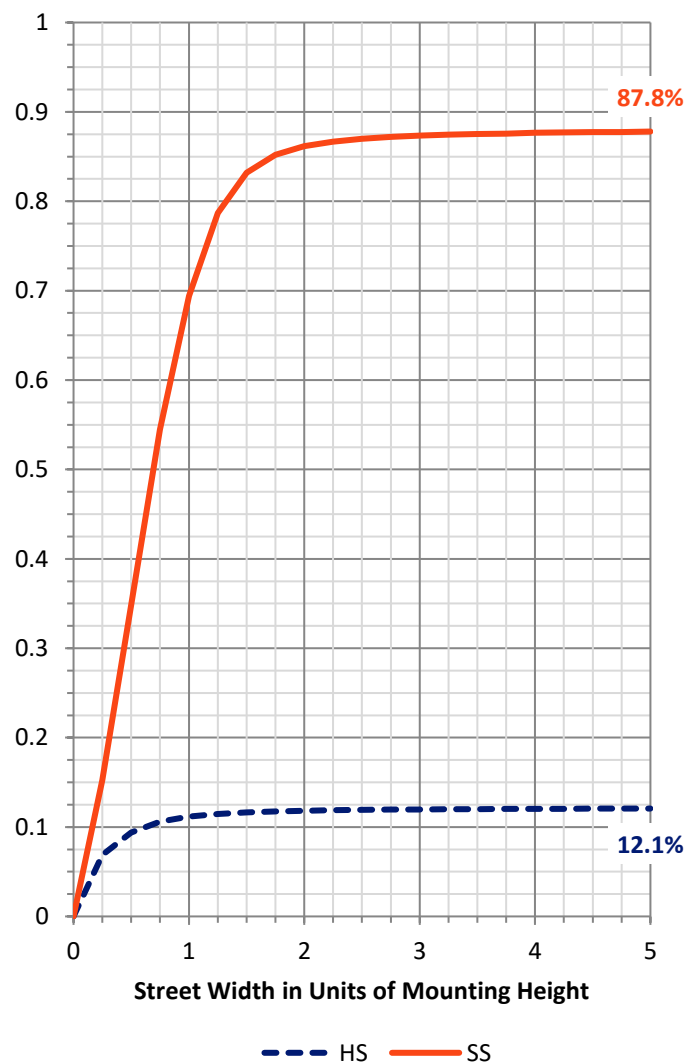
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.6	0.0	463.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3348.4	0.0	3348.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	3812.0	0.0	3812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	1.3
10°-20°	176.0	4.6
20°-30°	361.7	9.5
30°-40°	639.4	16.8
40°-50°	849.4	22.3
50°-60°	805.6	21.1
60°-70°	614.6	16.1
70°-80°	297.9	7.8
80°-90°	16.8	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°	3812.0	100.0
0°-180°	3812.0	100.0

Coefficient of Utilization



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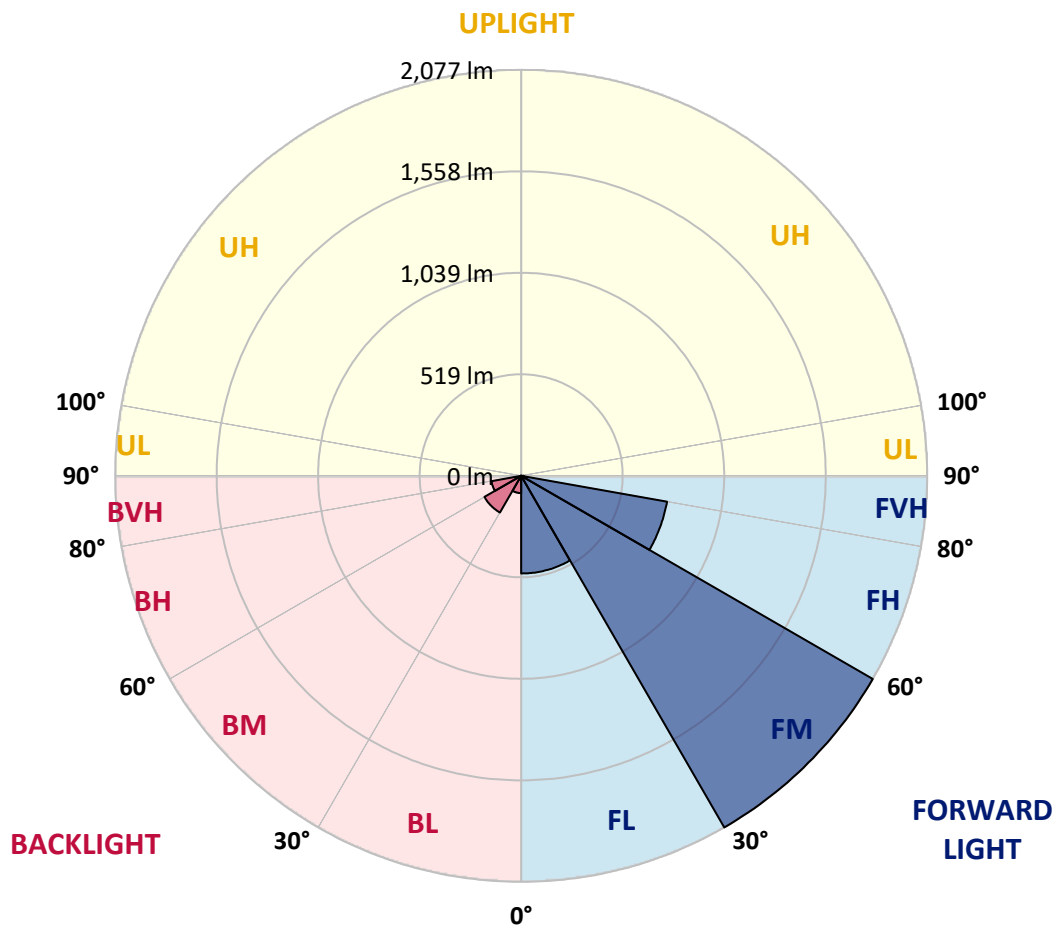
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	499.9	13.1			
FM	(30°-60°)	2077.4	54.5			
FH	(60°-80°)	757.8	19.9			G1/1800
FVH	(80°-90°)	13.3	0.3			G1/100
BL	(0°-30°)	88.5	2.3	B0/110		
BM	(30°-60°)	216.9	5.7	B0/220		
BH	(60°-80°)	154.7	4.1	B1/500		G1/500
BVH	(80°-90°)	3.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	624.4	613.4	626.0	624.4	613.4	606.4	584.5	577.5	551.6	532.9	516.4
5°	752.7	741.8	752.7	749.6	733.9	716.7	680.7	657.3	611.1	570.4	533.6
7.5°	859.1	859.1	863.8	864.6	845.8	819.2	774.6	739.4	674.5	611.9	553.2
10°	974.2	974.9	985.1	978.1	953.0	917.0	860.7	816.1	737.9	655.7	572.0
12.5°	1097.0	1097.8	1100.9	1097.8	1068.0	1021.9	953.8	895.1	805.1	705.8	597.8
15°	1219.8	1220.6	1224.5	1219.1	1186.2	1132.2	1054.7	982.8	876.3	762.1	629.1
17.5°	1334.9	1336.4	1339.6	1332.5	1298.1	1233.9	1154.9	1068.0	952.2	822.4	664.3
20°	1438.2	1439.7	1442.1	1432.7	1398.2	1334.1	1248.8	1158.0	1029.7	884.2	702.6
22.5°	1542.2	1543.8	1547.7	1535.2	1496.8	1423.3	1339.6	1245.7	1111.9	952.2	747.2
25°	1675.2	1676.8	1679.9	1661.9	1609.5	1523.4	1435.0	1338.8	1201.1	1028.9	802.0
27.5°	1870.1	1868.5	1868.5	1835.6	1745.7	1633.8	1531.3	1433.5	1297.3	1111.1	862.3
30°	2111.1	2107.1	2104.8	2060.2	1931.9	1758.2	1629.9	1521.9	1389.6	1197.9	927.2
32.5°	2327.0	2327.0	2322.3	2275.4	2139.2	1925.6	1734.7	1607.9	1478.8	1285.6	994.5
35°	2454.6	2460.0	2457.7	2422.5	2323.1	2105.6	1876.3	1711.2	1572.7	1377.1	1075.1
37.5°	2471.8	2482.7	2485.1	2463.9	2411.5	2252.7	2033.6	1823.1	1676.0	1475.7	1153.3
40°	2402.1	2425.6	2425.6	2422.5	2403.7	2322.3	2165.8	1953.0	1782.4	1578.2	1232.4
42.5°	2294.9	2319.2	2316.1	2327.8	2323.1	2305.9	2240.2	2074.3	1888.8	1683.8	1304.4
45°	2154.9	2179.9	2173.7	2194.8	2204.2	2223.0	2232.3	2158.8	1993.7	1798.9	1384.9
47.5°	1930.3	1972.6	1982.0	2019.5	2058.6	2117.3	2161.9	2189.3	2091.5	1922.5	1472.6
50°	1598.6	1658.0	1676.8	1755.8	1863.0	1984.3	2056.3	2151.7	2160.4	2049.2	1567.3
52.5°	1144.7	1213.6	1242.5	1372.4	1593.1	1804.3	1934.2	2068.8	2187.0	2170.5	1669.8
55°	740.2	798.9	827.1	949.1	1242.5	1574.3	1790.3	1961.6	2172.1	2281.6	1787.1
57.5°	456.2	489.8	508.6	613.4	883.4	1279.3	1601.7	1863.0	2126.7	2377.9	1909.2
60°	307.5	327.1	336.5	385.7	600.1	956.2	1342.7	1759.7	2067.2	2442.8	2020.3
62.5°	204.2	210.5	219.9	250.4	395.9	671.3	1031.3	1575.1	2022.6	2446.7	2102.5
65°	158.1	161.2	165.1	178.4	244.1	469.5	725.3	1276.2	1956.1	2363.8	2128.3
67.5°	124.4	127.5	132.2	139.3	176.8	318.5	493.7	935.0	1820.0	2233.9	2086.0
70°	97.8	100.2	103.3	109.5	137.7	230.8	326.3	621.3	1545.3	2110.3	1953.0
72.5°	77.5	79.8	82.9	89.2	111.9	169.0	223.8	387.3	1191.7	1959.3	1697.1
75°	61.0	62.6	64.9	71.2	90.0	131.5	151.8	231.6	809.8	1683.1	1322.3
77.5°	30.5	37.6	43.0	49.3	65.7	90.8	100.9	128.3	341.9	863.8	630.7
80°	18.0	21.9	23.5	27.4	43.0	54.8	54.8	51.6	108.0	331.8	257.4
82.5°	10.2	14.1	14.9	15.6	25.8	31.3	25.0	18.8	21.9	111.1	75.1
85°	3.1	4.7	5.5	6.3	8.6	9.4	8.6	7.8	6.3	11.0	7.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	1.6	1.6	2.3	2.3	2.3
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°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	507.0	496.9	477.3	459.3	442.1	429.6	417.8	406.9	399.1	392.8	392.0
5°	514.1	493.7	456.2	421.0	388.9	362.3	339.6	321.6	308.3	298.9	298.1
7.5°	523.5	492.2	435.0	382.6	334.9	296.6	263.7	239.4	222.2	215.2	209.7
10°	531.3	490.6	413.9	344.3	281.7	233.2	194.0	169.8	157.3	152.6	150.2
12.5°	544.6	492.2	395.9	309.1	235.5	178.4	148.7	135.4	129.9	126.0	125.2
15°	564.1	499.2	378.7	274.6	188.6	144.0	126.8	118.2	112.7	111.9	111.1
17.5°	583.7	505.5	363.1	239.4	156.5	125.2	113.5	106.4	102.5	101.7	101.7
20°	606.4	513.3	345.8	205.8	133.8	112.7	103.3	97.8	93.1	92.3	92.3
22.5°	633.0	524.2	329.4	176.1	118.9	103.3	95.5	89.2	85.3	84.5	84.5
25°	669.0	540.7	316.1	154.1	108.8	95.5	88.4	82.9	79.8	78.2	78.2
27.5°	708.9	563.4	306.7	140.8	101.7	89.2	82.2	77.5	74.3	72.8	72.8
30°	753.5	588.4	300.5	135.4	97.8	83.7	77.5	72.8	68.9	68.1	68.1
32.5°	802.8	617.4	296.6	136.1	97.0	79.8	72.8	68.1	64.9	63.4	63.4
35°	857.6	649.4	294.2	140.8	98.6	76.7	68.9	64.2	61.0	59.5	59.5
37.5°	918.6	687.0	294.2	145.5	102.5	75.9	64.9	60.2	57.9	56.3	56.3
40°	975.7	726.9	297.3	151.0	106.4	75.9	61.8	57.9	54.8	53.2	53.2
42.5°	1020.3	749.6	299.7	156.5	108.8	75.1	58.7	54.8	52.4	50.9	50.9
45°	1071.2	773.8	295.0	158.8	108.8	73.6	56.3	52.4	50.1	48.5	48.5
47.5°	1127.5	803.6	294.2	160.4	106.4	70.4	54.0	50.1	48.5	46.9	46.9
50°	1184.6	836.4	295.8	159.6	103.3	65.7	50.9	48.5	46.2	44.6	44.6
52.5°	1249.6	870.9	298.9	158.1	96.2	60.2	48.5	46.2	43.8	42.3	41.5
55°	1321.6	908.4	305.2	154.9	86.9	54.8	46.2	43.8	40.7	39.1	38.3
57.5°	1404.5	954.6	312.2	148.7	76.7	50.1	43.8	40.7	36.0	33.6	32.9
60°	1483.5	1007.0	320.0	133.8	66.5	45.4	41.5	36.8	32.1	30.5	29.7
62.5°	1557.9	1058.7	323.9	107.2	56.3	41.5	39.1	33.6	29.0	27.4	26.6
65°	1605.6	1115.0	315.3	72.8	46.2	38.3	36.0	31.3	26.6	24.3	24.3
67.5°	1608.7	1141.6	285.6	47.7	37.6	34.4	32.9	28.2	23.5	21.9	21.1
70°	1529.7	1101.7	218.3	37.6	31.3	29.7	29.7	25.0	20.3	18.8	18.0
72.5°	1348.2	975.7	139.3	30.5	26.6	25.0	25.0	21.1	18.0	15.6	14.9
75°	1064.1	752.7	74.3	25.0	21.9	21.1	19.6	17.2	14.9	13.3	12.5
77.5°	489.0	331.8	34.4	18.0	16.4	16.4	14.9	12.5	11.7	10.2	10.2
80°	193.3	112.7	17.2	11.7	11.0	11.0	11.0	8.6	8.6	7.0	6.3
82.5°	53.2	23.5	8.6	7.0	7.0	7.0	6.3	5.5	5.5	4.7	4.7
85°	5.5	3.9	3.9	3.9	3.9	3.1	3.1	2.3	1.6	1.6	1.6
87.5°	2.3	2.3	2.3	2.3	2.3	1.6	0.8	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)