

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: P799490

Luminaire Tested: **ARCH2-30-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799490
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: ARCH2-30-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

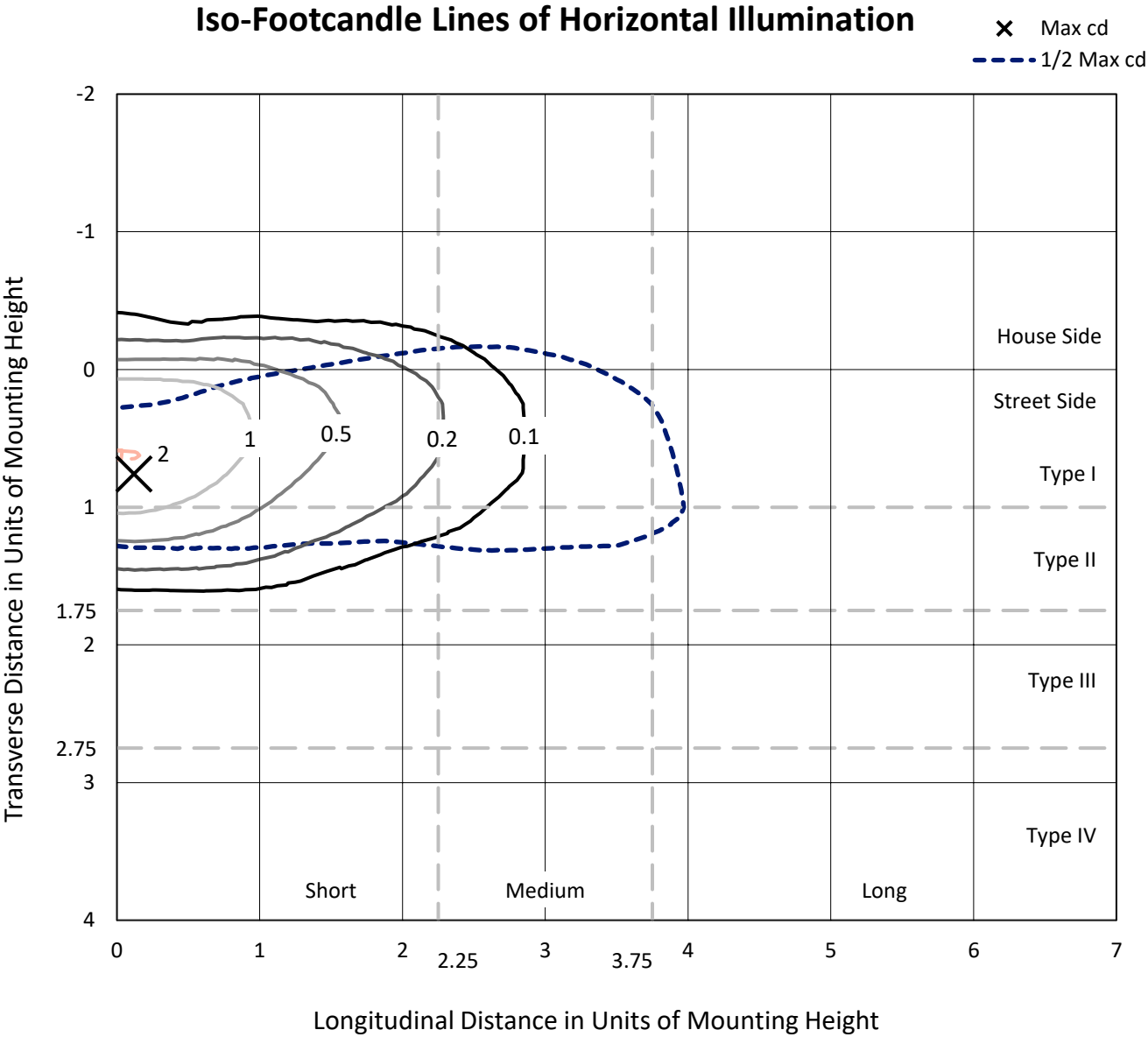
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3503 lumens
Efficiency: N/A
Efficacy: 101.8 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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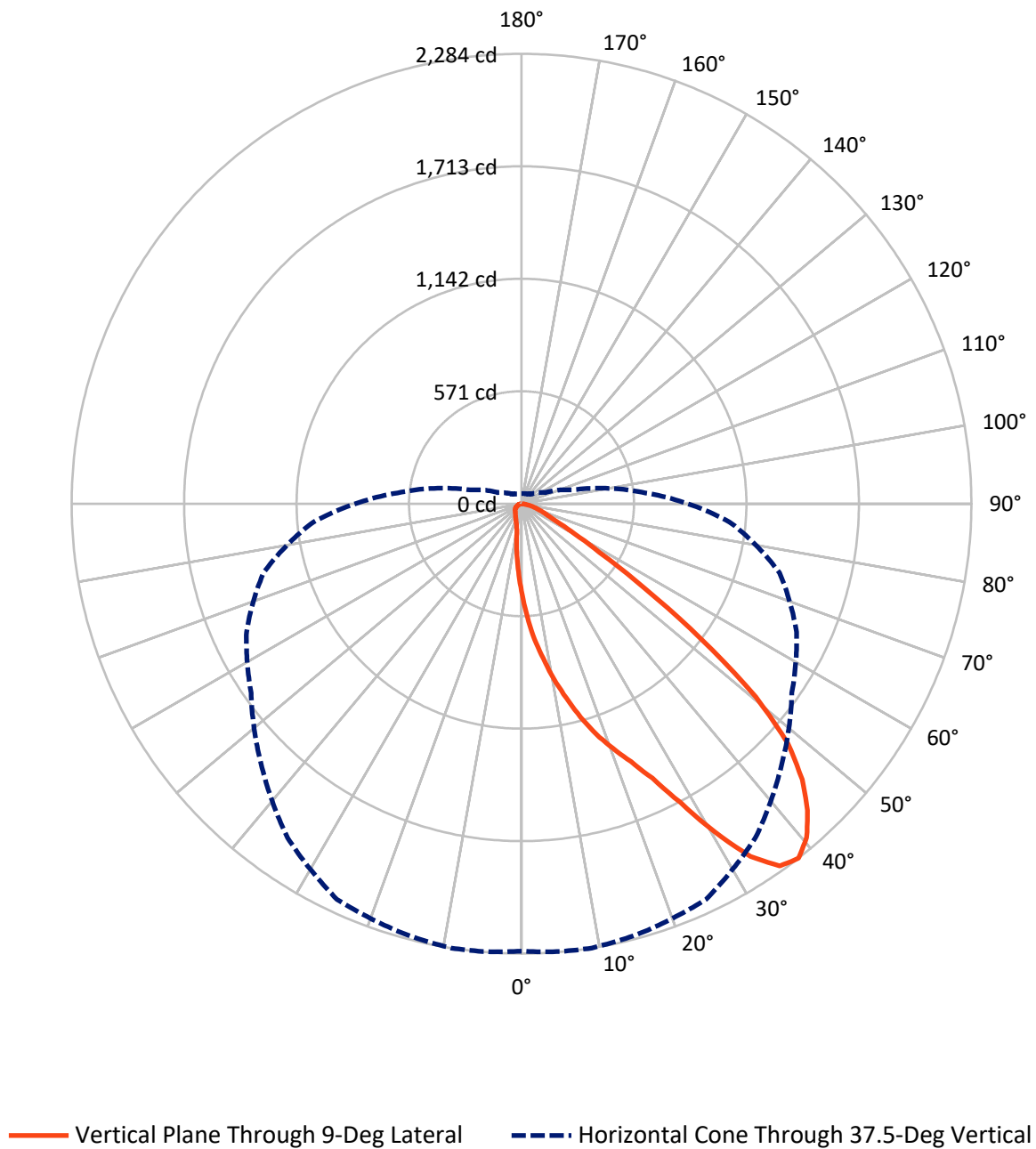


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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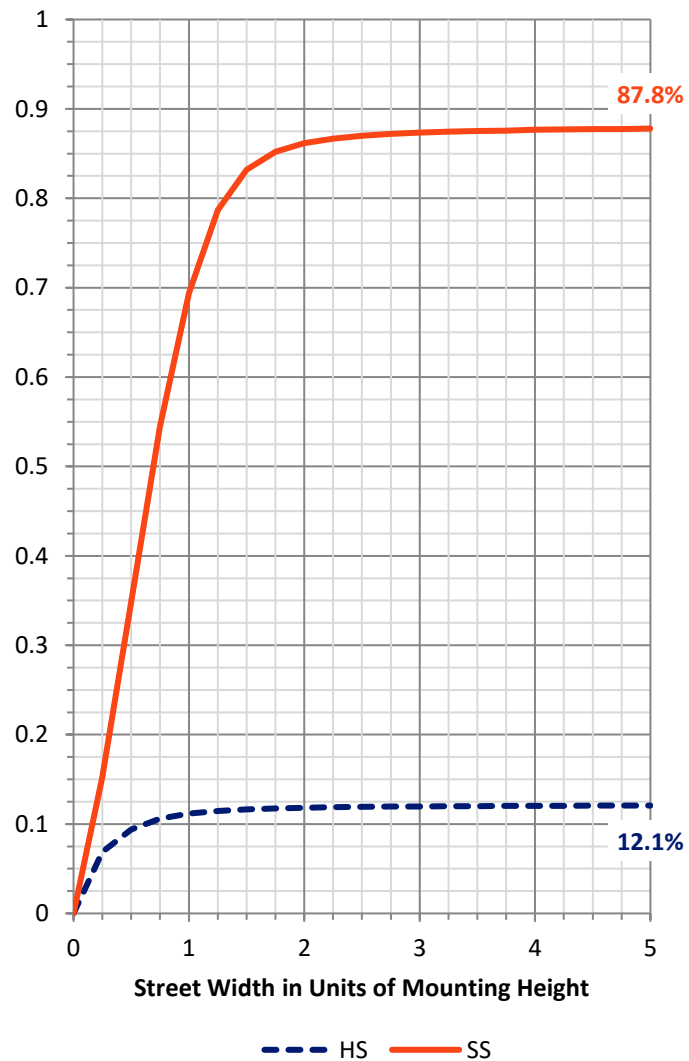
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.0	0.0	426.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3077.0	0.0	3077.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	3503.0	0.0	3503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.3
10°-20°	161.8	4.6
20°-30°	332.4	9.5
30°-40°	587.5	16.8
40°-50°	780.5	22.3
50°-60°	740.3	21.1
60°-70°	564.8	16.1
70°-80°	273.8	7.8
80°-90°	15.4	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°	3503.0	100.0
0°-180°	3503.0	100.0

Coefficient of Utilization



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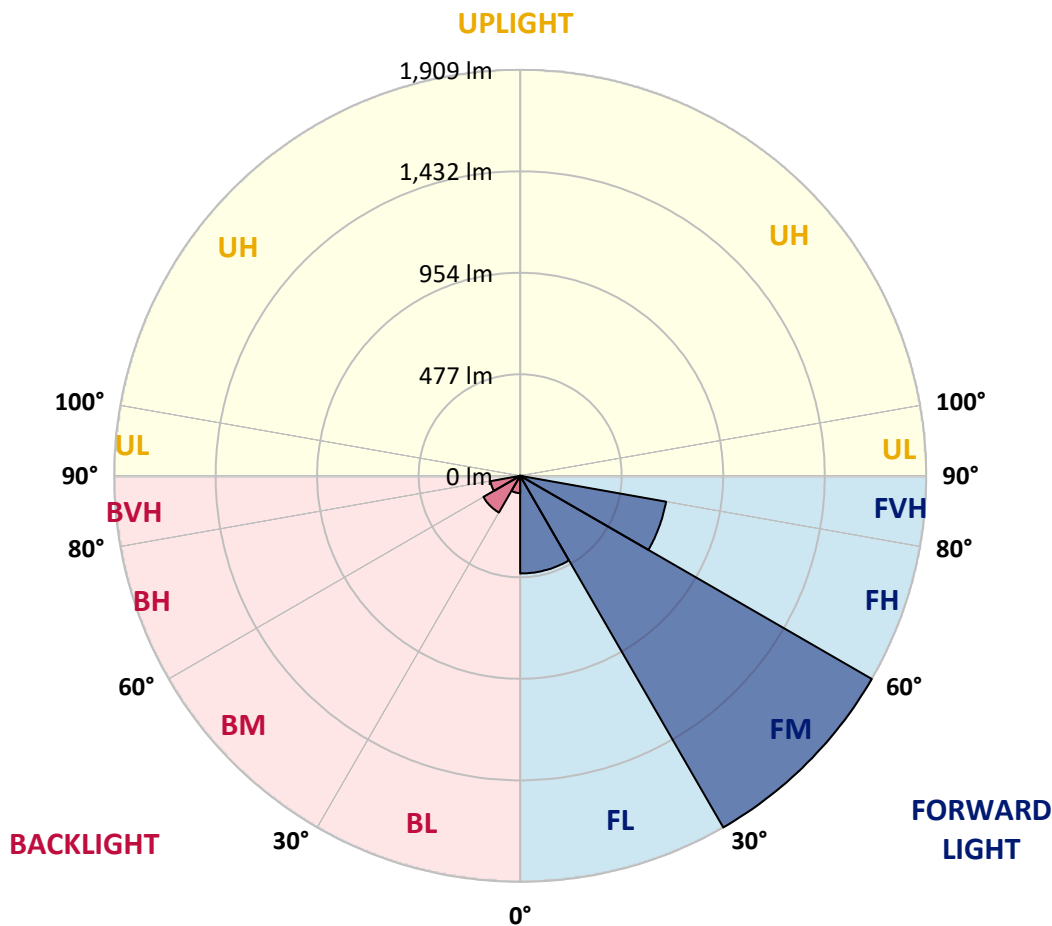
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.4	13.1			
FM	(30°-60°)	1909.0	54.5			
FH	(60°-80°)	696.4	19.9			G1/1800
FVH	(80°-90°)	12.2	0.3			G1/100
BL	(0°-30°)	81.3	2.3	B0/110		
BM	(30°-60°)	199.4	5.7	B0/220		
BH	(60°-80°)	142.2	4.1	B1/500		G1/500
BVH	(80°-90°)	3.2	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°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	573.8	563.7	575.2	573.8	563.7	557.2	537.1	530.6	506.9	489.7	474.6
5°	691.7	681.6	691.7	688.8	674.4	658.6	625.6	604.0	561.6	524.2	490.4
7.5°	789.5	789.5	793.8	794.5	777.3	752.8	711.8	679.5	619.8	562.3	508.4
10°	895.2	895.9	905.3	898.8	875.8	842.7	790.9	749.9	678.0	602.5	525.6
12.5°	1008.1	1008.8	1011.7	1008.8	981.5	939.1	876.5	822.6	739.9	648.6	549.3
15°	1121.0	1121.7	1125.3	1120.2	1090.0	1040.4	969.3	903.1	805.3	700.3	578.1
17.5°	1226.7	1228.1	1231.0	1224.5	1192.9	1133.9	1061.3	981.5	875.1	755.7	610.5
20°	1321.6	1323.0	1325.2	1316.5	1284.9	1225.9	1147.6	1064.2	946.2	812.5	645.7
22.5°	1417.2	1418.6	1422.2	1410.7	1375.5	1307.9	1231.0	1144.7	1021.7	875.1	686.7
25°	1539.4	1540.9	1543.8	1527.2	1479.0	1399.9	1318.7	1230.3	1103.7	945.5	737.0
27.5°	1718.5	1717.0	1717.0	1686.8	1604.2	1501.3	1407.1	1317.3	1192.1	1021.0	792.4
30°	1939.9	1936.3	1934.2	1893.2	1775.3	1615.7	1497.7	1398.5	1277.0	1100.8	852.0
32.5°	2138.4	2138.4	2134.1	2090.9	1965.8	1769.5	1594.1	1477.6	1359.0	1181.4	913.9
35°	2255.6	2260.6	2258.5	2226.1	2134.8	1934.9	1724.2	1572.5	1445.2	1265.5	987.9
37.5°	2271.4	2281.5	2283.6	2264.2	2216.0	2070.1	1868.8	1675.3	1540.2	1356.1	1059.8
40°	2207.4	2229.0	2229.0	2226.1	2208.9	2134.1	1990.3	1794.7	1637.9	1450.3	1132.5
42.5°	2108.9	2131.2	2128.3	2139.1	2134.8	2119.0	2058.6	1906.1	1735.7	1547.3	1198.6
45°	1980.2	2003.2	1997.5	2016.9	2025.5	2042.8	2051.4	1983.8	1832.1	1653.0	1272.7
47.5°	1773.8	1812.7	1821.3	1855.8	1891.8	1945.7	1986.7	2011.8	1922.0	1766.7	1353.2
50°	1469.0	1523.6	1540.9	1613.5	1712.0	1823.5	1889.6	1977.3	1985.2	1883.1	1440.2
52.5°	1051.9	1115.2	1141.8	1261.2	1463.9	1658.1	1777.4	1901.1	2009.7	1994.6	1534.4
55°	680.2	734.1	760.0	872.2	1141.8	1446.7	1645.1	1802.6	1996.0	2096.7	1642.3
57.5°	419.2	450.1	467.4	563.7	811.8	1175.6	1471.9	1712.0	1954.3	2185.1	1754.4
60°	282.6	300.6	309.2	354.5	551.5	878.7	1233.9	1617.1	1899.7	2244.8	1856.5
62.5°	187.7	193.4	202.0	230.1	363.8	616.9	947.7	1447.4	1858.7	2248.4	1932.0
65°	145.2	148.1	151.7	163.9	224.3	431.4	666.5	1172.7	1797.6	2172.2	1955.8
67.5°	114.3	117.2	121.5	128.0	162.5	292.6	453.7	859.2	1672.5	2052.8	1916.9
70°	89.9	92.0	94.9	100.7	126.5	212.1	299.8	570.9	1420.1	1939.2	1794.7
72.5°	71.2	73.3	76.2	82.0	102.8	155.3	205.6	355.9	1095.1	1800.4	1559.6
75°	56.1	57.5	59.7	65.4	82.7	120.8	139.5	212.8	744.2	1546.6	1215.2
77.5°	28.0	34.5	39.5	45.3	60.4	83.4	92.8	117.9	314.2	793.8	579.5
80°	16.5	20.1	21.6	25.2	39.5	50.3	50.3	47.5	99.2	304.9	236.6
82.5°	9.3	12.9	13.7	14.4	23.7	28.8	23.0	17.3	20.1	102.1	69.0
85°	2.9	4.3	5.0	5.8	7.9	8.6	7.9	7.2	5.8	10.1	6.5
87.5°	0.0	0.0	0.0	0.0	0.7	1.4	1.4	1.4	2.2	2.2	2.2
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°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1	463.1
2.5°	465.9	456.6	438.6	422.1	406.3	394.7	384.0	373.9	366.7	361.0	360.2
5°	472.4	453.7	419.2	386.8	357.4	332.9	312.1	295.5	283.3	274.7	273.9
7.5°	481.0	452.3	399.8	351.6	307.7	272.5	242.3	220.0	204.2	197.7	192.7
10°	488.2	450.8	380.4	316.4	258.9	214.3	178.3	156.0	144.5	140.2	138.1
12.5°	500.4	452.3	363.8	284.0	216.4	163.9	136.6	124.4	119.4	115.8	115.0
15°	518.4	458.7	348.0	252.4	173.3	132.3	116.5	108.6	103.5	102.8	102.1
17.5°	536.4	464.5	333.6	220.0	143.8	115.0	104.3	97.8	94.2	93.5	93.5
20°	557.2	471.7	317.8	189.1	123.0	103.5	94.9	89.9	85.6	84.8	84.8
22.5°	581.7	481.7	302.7	161.8	109.3	94.9	87.7	82.0	78.4	77.7	77.7
25°	614.8	496.8	290.5	141.6	99.9	87.7	81.3	76.2	73.3	71.9	71.9
27.5°	651.4	517.7	281.9	129.4	93.5	82.0	75.5	71.2	68.3	66.9	66.9
30°	692.4	540.7	276.1	124.4	89.9	76.9	71.2	66.9	63.3	62.6	62.6
32.5°	737.7	567.3	272.5	125.1	89.2	73.3	66.9	62.6	59.7	58.2	58.2
35°	788.1	596.8	270.4	129.4	90.6	70.5	63.3	59.0	56.1	54.6	54.6
37.5°	844.1	631.3	270.4	133.7	94.2	69.7	59.7	55.4	53.2	51.8	51.8
40°	896.6	668.0	273.2	138.8	97.8	69.7	56.8	53.2	50.3	48.9	48.9
42.5°	937.6	688.8	275.4	143.8	99.9	69.0	53.9	50.3	48.2	46.7	46.7
45°	984.3	711.1	271.1	146.0	99.9	67.6	51.8	48.2	46.0	44.6	44.6
47.5°	1036.1	738.4	270.4	147.4	97.8	64.7	49.6	46.0	44.6	43.1	43.1
50°	1088.6	768.6	271.8	146.7	94.9	60.4	46.7	44.6	42.4	41.0	41.0
52.5°	1148.3	800.3	274.7	145.2	88.4	55.4	44.6	42.4	40.3	38.8	38.1
55°	1214.4	834.8	280.4	142.4	79.8	50.3	42.4	40.3	37.4	36.0	35.2
57.5°	1290.7	877.2	286.9	136.6	70.5	46.0	40.3	37.4	33.1	30.9	30.2
60°	1363.3	925.4	294.1	123.0	61.1	41.7	38.1	33.8	29.5	28.0	27.3
62.5°	1431.6	972.8	297.7	98.5	51.8	38.1	36.0	30.9	26.6	25.2	24.4
65°	1475.4	1024.6	289.8	66.9	42.4	35.2	33.1	28.8	24.4	22.3	22.3
67.5°	1478.3	1049.1	262.4	43.9	34.5	31.6	30.2	25.9	21.6	20.1	19.4
70°	1405.7	1012.4	200.6	34.5	28.8	27.3	27.3	23.0	18.7	17.3	16.5
72.5°	1238.9	896.6	128.0	28.0	24.4	23.0	23.0	19.4	16.5	14.4	13.7
75°	977.9	691.7	68.3	23.0	20.1	19.4	18.0	15.8	13.7	12.2	11.5
77.5°	449.4	304.9	31.6	16.5	15.1	15.1	13.7	11.5	10.8	9.3	9.3
80°	177.6	103.5	15.8	10.8	10.1	10.1	10.1	7.9	7.9	6.5	5.8
82.5°	48.9	21.6	7.9	6.5	6.5	6.5	5.8	5.0	5.0	4.3	4.3
85°	5.0	3.6	3.6	3.6	3.6	2.9	2.9	2.2	1.4	1.4	1.4
87.5°	2.2	2.2	2.2	2.2	2.2	1.4	0.7	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)