

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: P799542

Luminaire Tested: **ARCH2-30-740-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

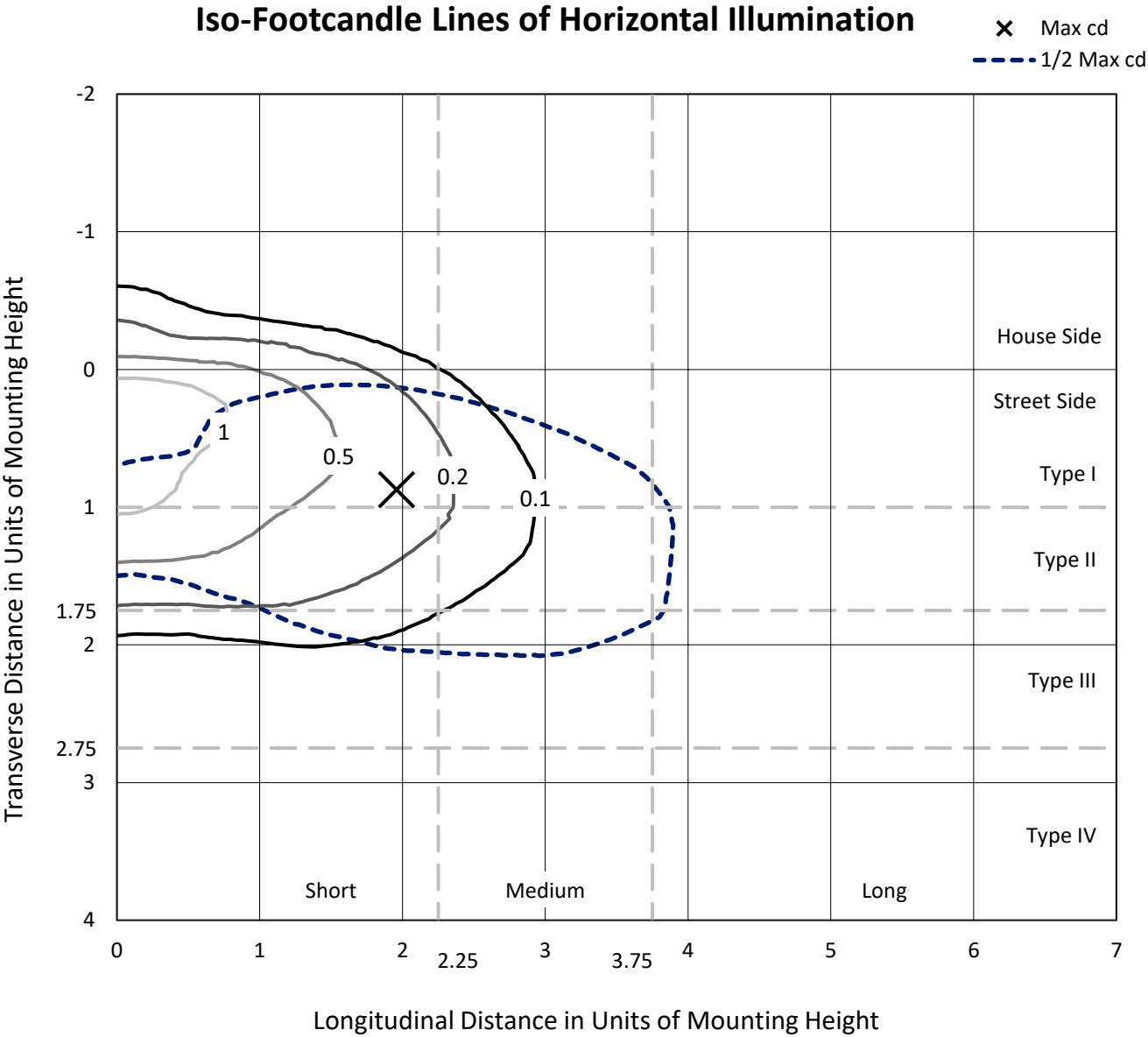
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3730 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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

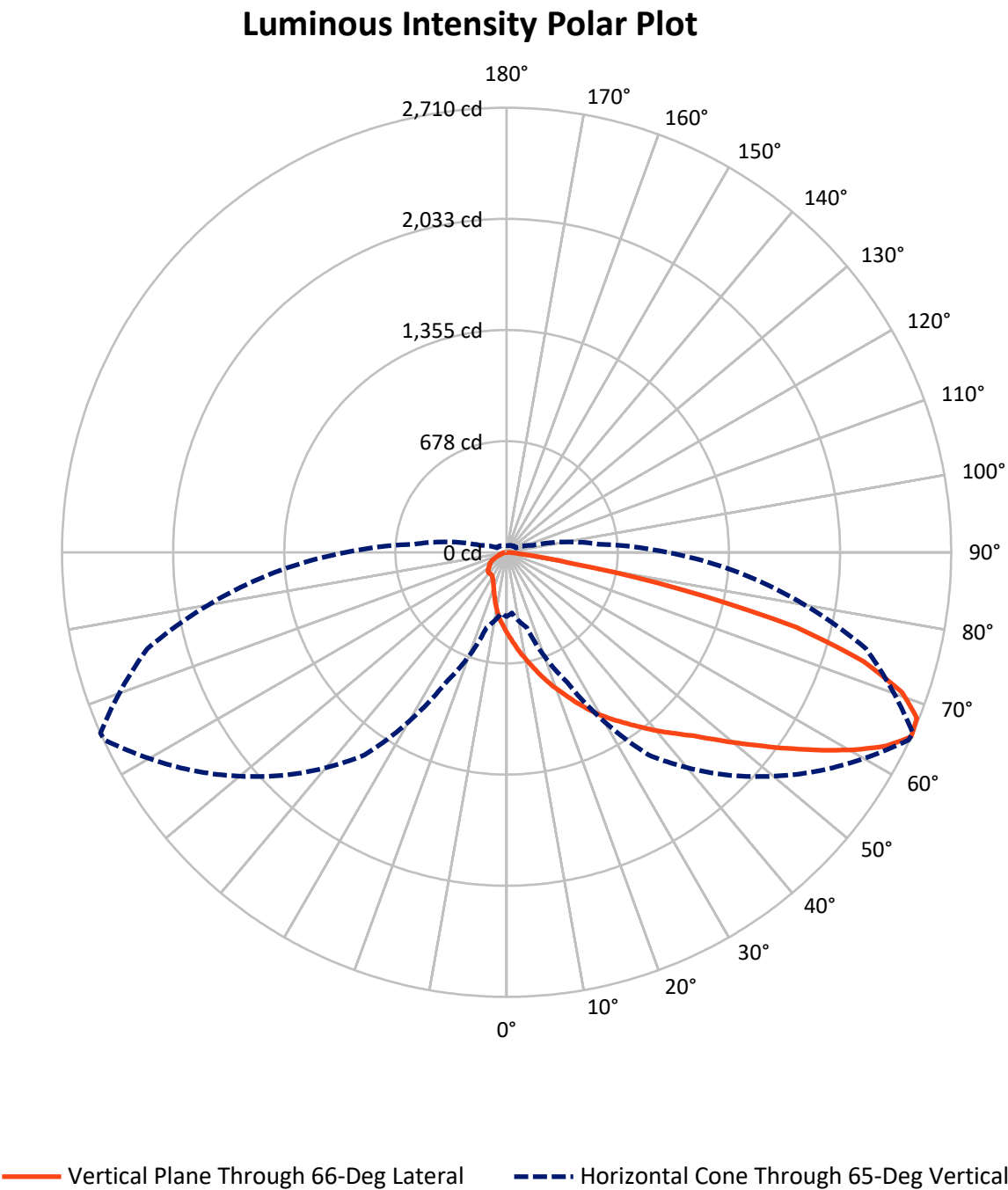


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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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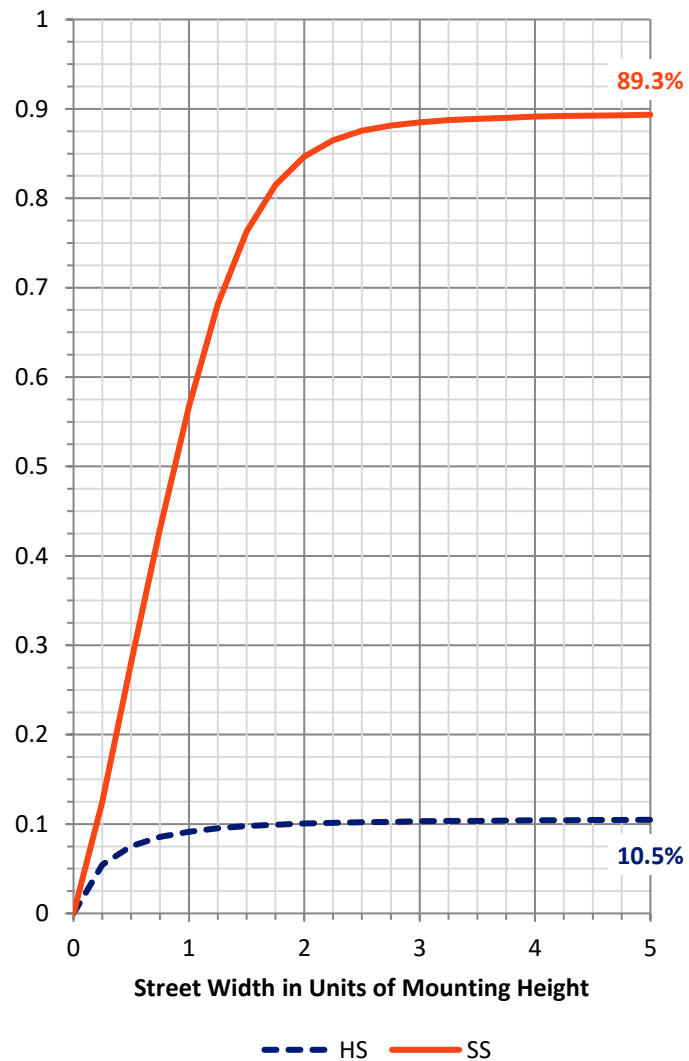
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.5	0.0	394.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3335.5	0.0	3335.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	3730.0	0.0	3730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.3
10°-20°	158.8	4.3
20°-30°	287.3	7.7
30°-40°	449.3	12.0
40°-50°	681.6	18.3
50°-60°	866.0	23.2
60°-70°	809.2	21.7
70°-80°	402.1	10.8
80°-90°	27.0	0.7
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°	3730.0	100.0
0°-180°	3730.0	100.0

Coefficient of Utilization



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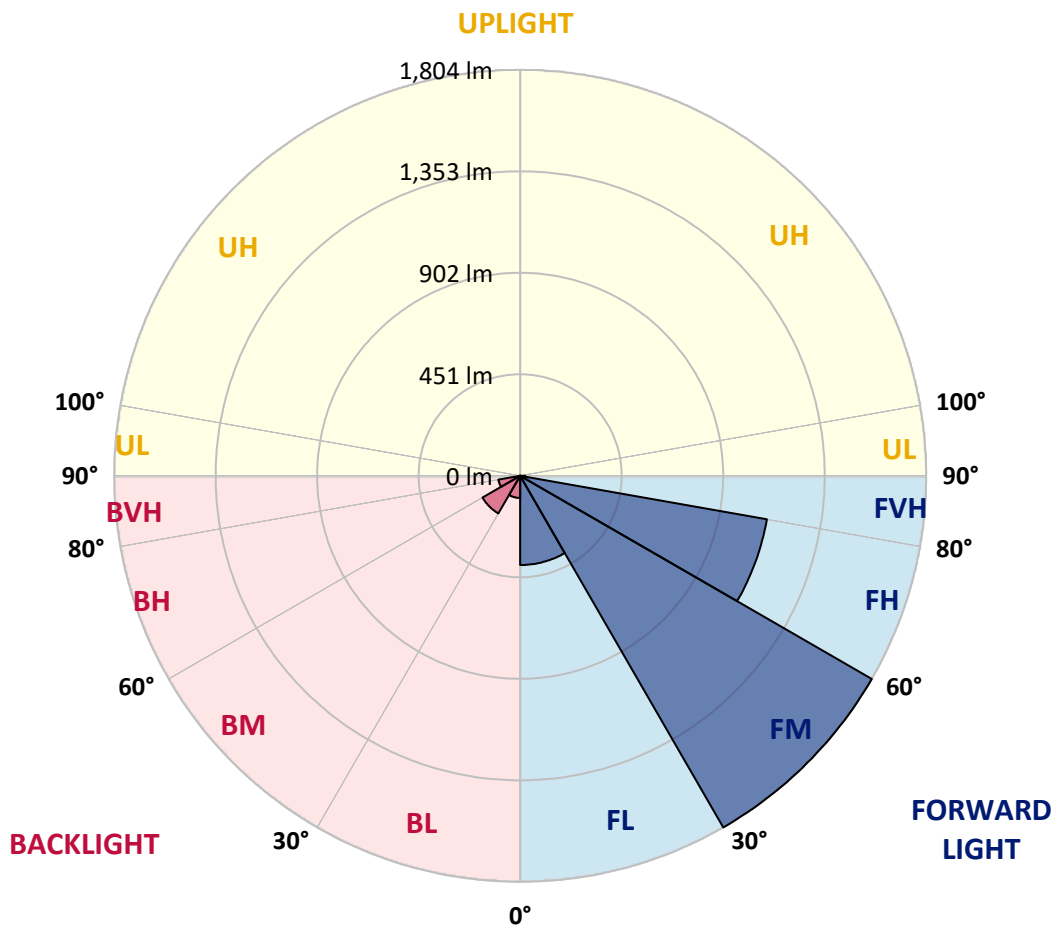
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.3	10.6			
FM	(30°-60°)	1803.9	48.4			
FH	(60°-80°)	1113.1	29.8			G1/1800
FVH	(80°-90°)	22.2	0.6			G1/100
BL	(0°-30°)	98.5	2.6	B0/110		
BM	(30°-60°)	193.0	5.2	B0/220		
BH	(60°-80°)	98.3	2.6	B0/110		G0/110
BVH	(80°-90°)	4.8	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	576.6	581.3	583.6	584.4	566.4	558.6	550.8	532.8	528.8	518.7	505.4
5°	678.3	684.5	683.0	679.8	657.9	632.9	612.6	578.9	573.4	549.2	519.5
7.5°	778.4	783.9	782.3	770.6	746.3	711.1	677.5	628.2	620.4	581.3	533.5
10°	862.1	866.8	866.0	854.3	825.3	782.3	741.6	675.9	666.5	611.0	545.3
12.5°	931.0	937.2	936.4	928.6	902.8	855.9	809.7	730.7	719.0	647.0	561.7
15°	984.9	992.8	992.8	989.6	971.6	932.5	880.1	790.9	776.8	688.4	582.0
17.5°	1017.8	1024.1	1029.5	1035.0	1022.5	992.8	945.0	851.2	836.3	729.1	603.2
20°	1035.0	1041.3	1045.2	1056.9	1059.3	1044.4	1006.8	910.6	895.0	775.3	627.4
22.5°	1063.2	1068.7	1069.4	1079.6	1084.3	1088.2	1064.7	969.3	956.8	826.1	654.8
25°	1110.1	1116.4	1114.0	1118.7	1119.5	1124.2	1121.8	1036.6	1024.1	884.0	687.7
27.5°	1170.4	1178.2	1176.6	1171.9	1164.9	1161.0	1171.1	1104.6	1092.9	941.9	721.3
30°	1235.3	1244.7	1242.3	1232.9	1214.2	1197.7	1211.8	1168.8	1157.8	1001.4	758.9
32.5°	1301.0	1312.0	1311.2	1295.5	1263.4	1235.3	1256.4	1229.0	1221.2	1065.5	799.5
35°	1344.0	1358.1	1356.5	1347.2	1305.7	1281.4	1307.3	1290.8	1285.4	1143.8	858.2
37.5°	1413.7	1428.5	1415.2	1391.8	1344.0	1331.5	1362.8	1360.5	1356.5	1226.7	920.0
40°	1582.6	1604.5	1569.3	1473.1	1394.9	1383.9	1428.5	1437.9	1434.0	1308.8	975.6
42.5°	1759.4	1792.3	1737.5	1604.5	1487.2	1447.3	1500.5	1513.8	1509.1	1379.2	1025.6
45°	1866.6	1880.7	1825.9	1722.7	1650.7	1524.0	1577.2	1599.1	1595.2	1463.7	1089.8
47.5°	1954.2	1948.8	1886.2	1816.6	1829.9	1631.9	1664.0	1707.0	1703.9	1556.8	1160.2
50°	1973.0	1960.5	1935.5	1891.7	1926.9	1741.4	1755.5	1829.9	1826.7	1660.1	1231.4
52.5°	1840.8	1824.4	1892.4	1929.2	1917.5	1821.2	1856.4	1964.4	1962.8	1772.0	1299.4
55°	1510.7	1497.4	1680.4	1870.5	1907.3	1877.6	1968.3	2104.4	2113.1	1890.9	1361.2
57.5°	1188.3	1174.3	1354.2	1723.5	1869.7	1929.2	2099.0	2264.8	2275.8	2020.0	1419.9
60°	947.4	926.3	1064.0	1491.9	1799.3	1969.1	2224.9	2440.8	2442.4	2138.1	1455.9
62.5°	643.9	620.4	772.9	1198.5	1681.2	1975.4	2321.9	2592.6	2598.9	2226.5	1462.2
65°	391.2	371.6	474.9	875.4	1506.8	1922.2	2323.5	2704.5	2710.0	2267.2	1424.6
67.5°	226.9	219.1	271.5	545.3	1217.3	1779.0	2225.7	2687.3	2697.4	2250.0	1339.3
70°	132.2	131.4	151.0	269.9	859.0	1495.0	2007.4	2542.5	2557.4	2160.0	1208.7
72.5°	97.0	98.6	106.4	144.7	497.6	1076.5	1700.0	2251.5	2274.2	1984.0	1022.5
75°	76.7	77.4	84.5	98.6	261.3	608.6	1273.6	1807.2	1825.2	1670.3	798.8
77.5°	57.1	58.7	64.2	69.6	121.3	279.3	716.6	1113.2	1083.5	916.9	385.7
80°	41.5	45.4	47.7	50.1	64.2	108.0	215.1	388.0	384.9	400.5	182.3
82.5°	26.6	29.7	32.1	33.6	38.3	51.6	64.2	86.8	93.9	155.7	72.8
85°	11.7	13.3	14.9	18.0	16.4	18.0	26.6	17.2	14.9	23.5	13.3
87.5°	0.0	0.0	2.3	3.9	3.1	1.6	4.7	3.1	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°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	498.3	489.7	471.7	454.5	444.4	431.1	419.3	408.4	407.6	404.5	399.0
5°	504.6	488.2	454.5	422.5	398.2	372.4	350.5	333.3	327.0	322.3	316.1
7.5°	510.9	485.0	435.0	388.0	349.7	313.7	287.9	264.4	257.4	251.1	247.2
10°	513.2	479.6	412.3	349.7	299.6	261.3	233.9	216.7	210.4	207.3	205.0
12.5°	520.2	476.4	391.2	313.7	255.8	220.6	201.1	190.9	188.5	186.2	183.8
15°	529.6	476.4	370.0	278.5	221.4	193.2	181.5	174.5	172.9	172.1	170.5
17.5°	539.8	476.4	349.7	248.8	196.4	175.2	166.6	162.7	161.9	161.2	160.4
20°	553.9	477.2	327.8	223.0	178.4	161.9	154.9	150.2	149.4	148.6	148.6
22.5°	568.0	478.8	306.7	203.4	166.6	151.8	143.2	138.5	136.9	136.9	136.9
25°	586.0	483.5	287.1	187.0	156.5	142.4	131.4	127.5	126.7	126.7	126.0
27.5°	607.1	489.0	269.9	174.5	146.3	131.4	120.5	116.6	115.0	115.0	114.2
30°	629.8	494.4	255.8	165.1	136.1	120.5	110.3	105.6	104.0	104.8	104.0
32.5°	654.8	502.3	244.9	158.8	126.7	111.1	101.7	96.2	95.4	95.4	94.7
35°	697.0	524.2	243.3	155.7	118.9	104.0	94.7	89.2	88.4	88.4	87.6
37.5°	742.4	549.2	250.3	154.1	112.7	97.8	89.2	83.7	82.9	82.9	82.9
40°	780.8	568.0	258.2	154.1	108.7	92.3	84.5	79.8	79.8	79.8	79.8
42.5°	806.6	569.5	256.6	154.1	105.6	88.4	81.4	76.7	76.7	77.4	76.7
45°	844.9	577.4	250.3	151.8	103.3	85.3	78.2	74.3	73.5	74.3	74.3
47.5°	890.3	591.4	244.1	142.4	102.5	82.1	75.9	71.2	70.4	71.2	70.4
50°	933.3	604.0	241.0	129.9	100.9	79.0	72.8	68.1	67.3	68.1	67.3
52.5°	969.3	609.4	235.5	121.3	97.0	75.9	69.6	64.9	63.4	64.2	64.2
55°	998.2	607.9	227.7	114.2	90.0	72.8	65.7	61.8	59.5	59.5	58.7
57.5°	1024.8	608.6	220.6	107.2	82.1	68.1	62.6	57.9	54.8	54.0	53.2
60°	1035.0	604.7	208.1	97.8	74.3	64.2	58.7	53.2	50.1	49.3	48.5
62.5°	1020.9	590.7	191.7	81.4	67.3	59.5	54.8	49.3	46.2	45.4	44.6
65°	981.0	564.1	166.6	64.2	61.0	54.0	50.1	46.2	42.2	40.7	39.9
67.5°	913.0	525.7	135.3	51.6	54.0	49.3	46.9	42.2	37.6	36.0	35.2
70°	816.0	474.9	101.7	43.8	47.7	43.8	42.2	37.6	33.6	32.1	31.3
72.5°	679.8	392.7	71.2	37.6	41.5	38.3	36.8	33.6	29.7	27.4	27.4
75°	514.0	281.6	46.9	32.1	34.4	32.9	30.5	28.2	25.8	24.3	23.5
77.5°	221.4	109.5	28.9	24.3	28.2	27.4	24.3	22.7	21.9	20.3	20.3
80°	95.4	44.6	18.0	18.0	20.3	19.6	18.8	17.2	17.2	16.4	15.6
82.5°	35.2	18.0	11.0	13.3	14.9	13.3	13.3	13.3	13.3	12.5	12.5
85°	8.6	5.5	5.5	7.8	8.6	7.8	8.6	7.8	7.8	7.8	7.0
87.5°	2.3	2.3	3.1	3.1	3.1	3.1	3.1	2.3	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)