

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: P798728

Luminaire Tested: **ARCH1-30-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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

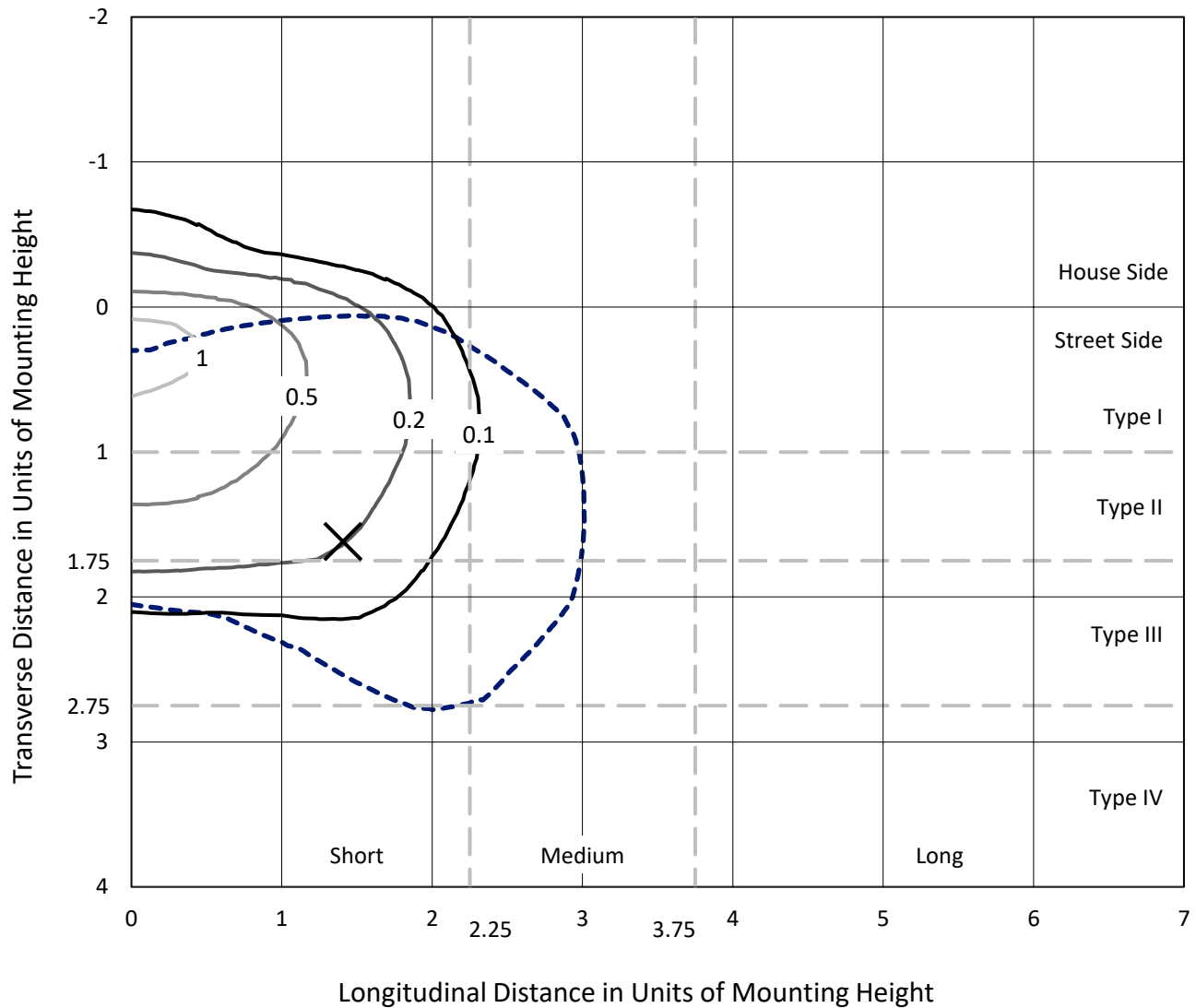


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Iso-Footcandle Lines of Horizontal Illumination

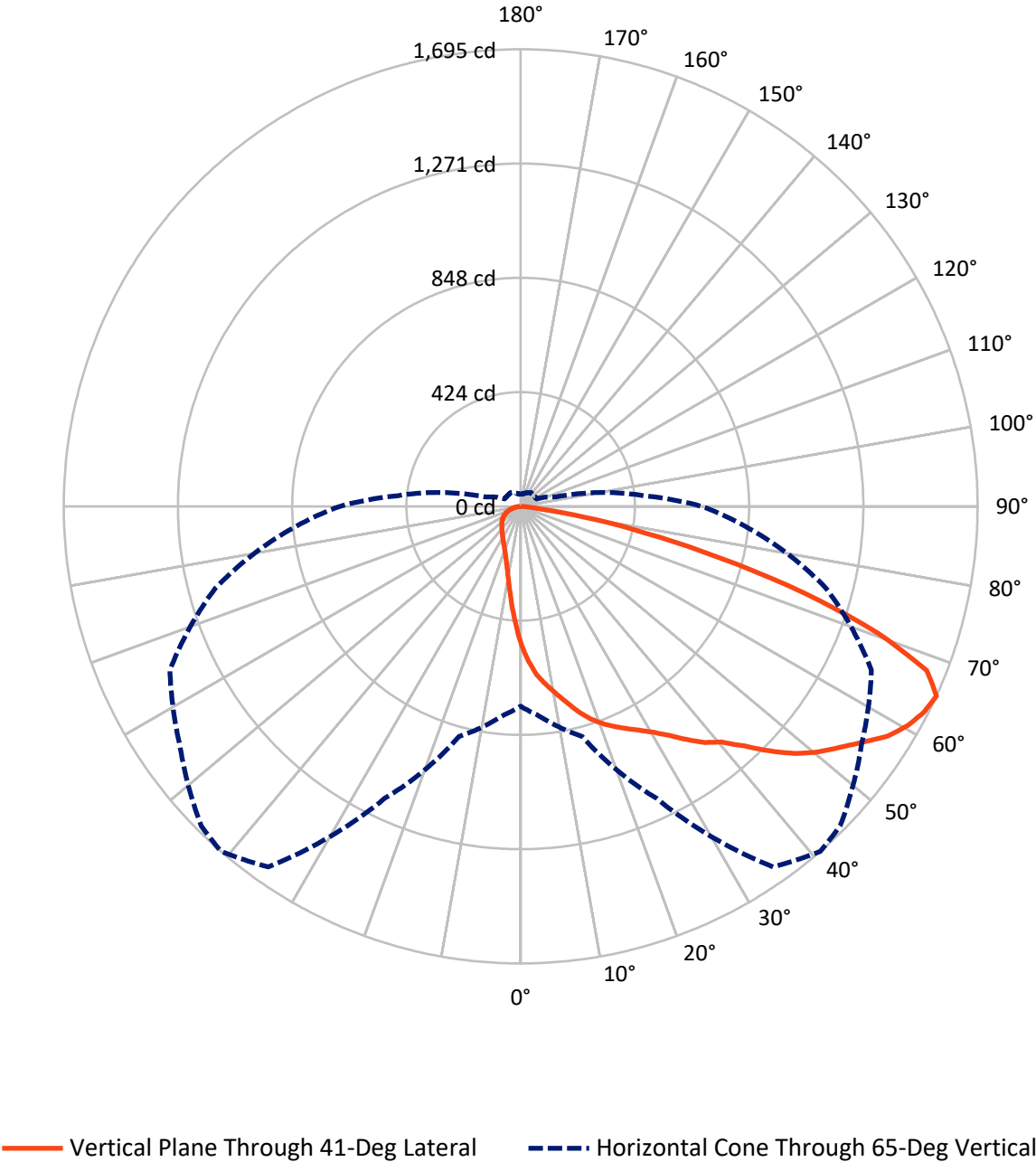
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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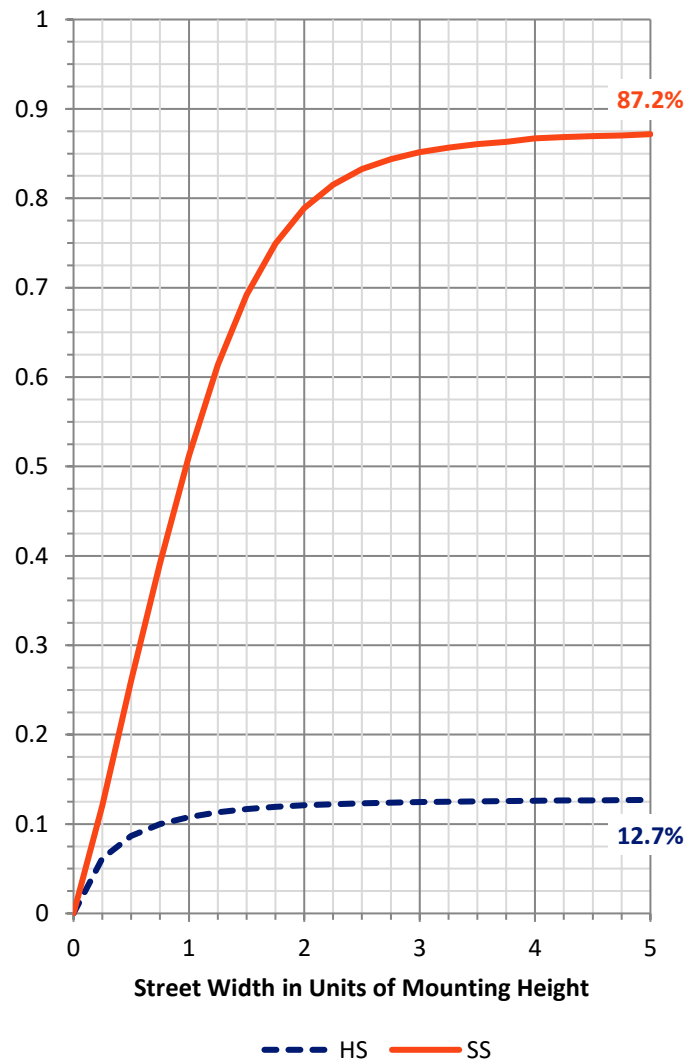
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	389.4	0.0	389.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2643.6	0.0	2643.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	3033.0	0.0	3033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.6
10°-20°	144.4	4.8
20°-30°	248.4	8.2
30°-40°	376.7	12.4
40°-50°	551.9	18.2
50°-60°	697.0	23.0
60°-70°	653.5	21.5
70°-80°	291.3	9.6
80°-90°	21.6	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°	3033.0	100.0
0°-180°	3033.0	100.0

Coefficient of Utilization



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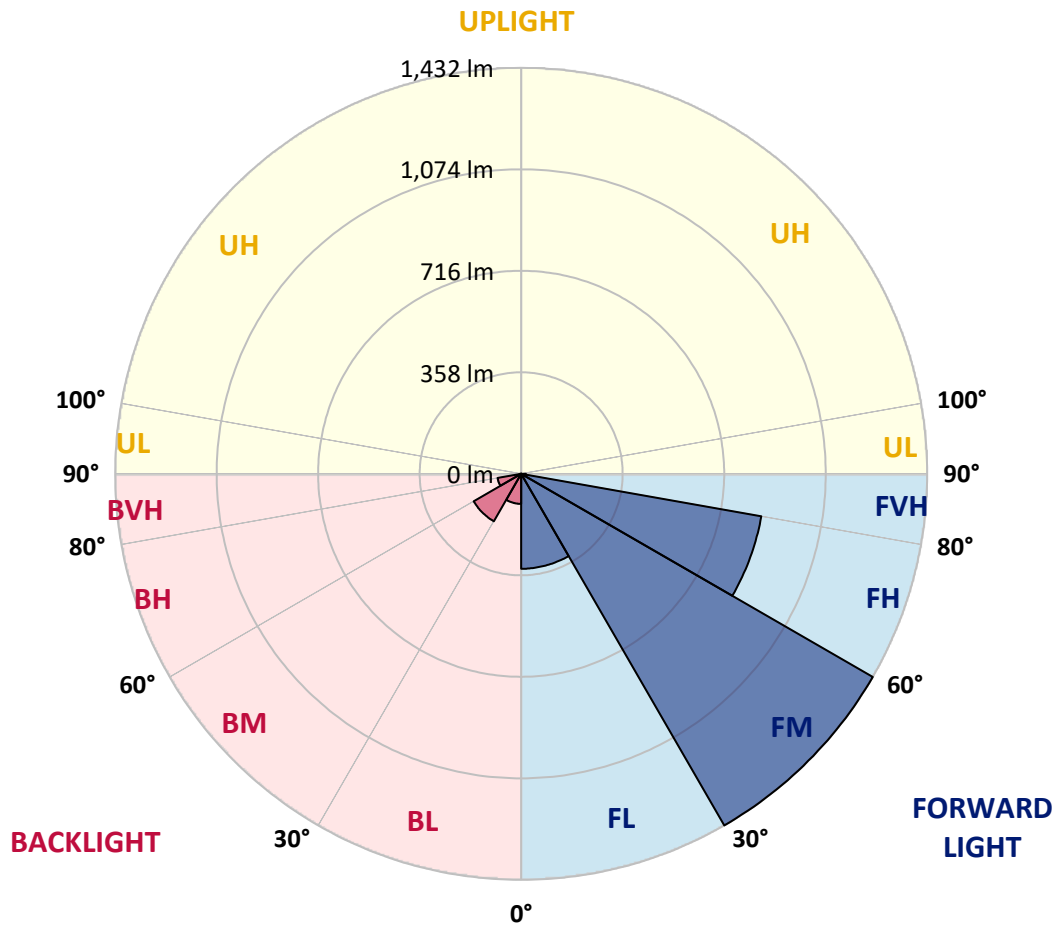
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.0	11.0			
FM	(30°-60°)	1432.3	47.2			
FH	(60°-80°)	860.2	28.4			G1/1800
FVH	(80°-90°)	16.1	0.5			G1/100
BL	(0°-30°)	106.0	3.5	B0/110		
BM	(30°-60°)	193.4	6.4	B0/220		
BH	(60°-80°)	84.6	2.8	B0/110		G0/110
BVH	(80°-90°)	5.5	0.2			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°	41°	45°	55°	65°	75°	85°
0°	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8
2.5°	596.1	594.2	592.9	585.9	585.9	576.3	576.9	568.0	557.1	539.8	521.3
5°	652.4	649.8	646.6	639.6	637.1	627.5	626.2	613.4	594.8	564.8	531.5
7.5°	701.7	699.1	694.6	684.4	677.4	665.8	662.6	646.0	625.5	588.4	541.8
10°	746.4	744.5	738.8	726.0	716.4	702.3	696.5	674.2	648.6	607.6	550.1
12.5°	791.8	789.3	781.6	770.7	759.2	742.6	735.6	706.8	674.2	628.7	562.2
15°	834.1	830.2	824.5	812.9	802.7	786.7	779.0	745.1	705.5	652.4	578.2
17.5°	861.6	858.4	853.2	846.8	838.5	826.4	818.7	785.4	736.8	675.4	594.8
20°	878.2	876.9	875.0	871.2	867.3	859.0	853.2	821.9	770.7	697.8	610.8
22.5°	891.0	889.7	889.1	889.1	889.7	886.5	882.7	855.8	803.4	721.5	625.5
25°	910.8	910.2	908.9	907.6	912.1	912.7	911.4	892.9	844.3	752.8	644.1
27.5°	938.3	936.4	933.8	932.6	937.0	940.2	942.8	930.0	887.8	784.8	665.2
30°	980.5	974.8	968.4	963.9	967.1	972.2	978.0	970.3	932.6	824.5	686.9
32.5°	1030.4	1023.4	1008.7	1000.4	1008.7	1012.5	1017.0	1013.1	979.2	867.3	708.7
35°	1091.2	1082.9	1067.5	1055.4	1070.1	1061.8	1059.8	1056.0	1023.4	909.5	733.0
37.5°	1192.2	1180.1	1155.8	1128.9	1128.9	1111.0	1104.0	1092.5	1063.0	947.3	756.7
40°	1309.3	1293.3	1262.0	1222.3	1185.8	1148.7	1144.3	1136.0	1109.7	990.8	783.5
42.5°	1437.9	1407.1	1363.7	1315.7	1256.8	1214.6	1204.4	1180.7	1155.1	1034.9	810.4
45°	1580.5	1516.5	1453.2	1428.9	1331.7	1293.3	1274.1	1231.3	1202.5	1080.9	838.5
47.5°	1603.5	1553.6	1511.4	1507.6	1401.4	1369.4	1347.7	1286.3	1253.6	1130.2	868.0
50°	1590.7	1560.7	1565.1	1549.8	1452.6	1431.5	1414.8	1345.1	1304.2	1177.5	894.8
52.5°	1537.0	1553.6	1579.2	1551.1	1501.2	1483.9	1475.6	1408.4	1351.5	1221.0	919.1
55°	1473.0	1484.5	1539.5	1574.1	1557.5	1542.1	1534.4	1482.0	1398.2	1257.5	941.5
57.5°	1379.6	1374.5	1435.3	1570.3	1616.3	1607.3	1599.0	1554.3	1441.7	1283.7	955.6
60°	1239.6	1228.7	1305.5	1493.5	1635.5	1649.6	1645.7	1602.2	1474.9	1283.1	949.8
62.5°	997.2	1024.0	1130.2	1368.1	1643.8	1679.6	1672.6	1606.1	1485.8	1246.0	913.4
65°	741.3	779.7	883.9	1195.4	1632.3	1695.0	1675.8	1543.4	1435.3	1172.4	833.4
67.5°	534.1	568.0	644.1	983.7	1521.6	1624.6	1602.2	1441.0	1318.9	1068.2	722.8
70°	365.2	389.5	441.3	716.4	1299.1	1404.6	1390.5	1288.2	1135.3	944.1	587.2
72.5°	257.8	268.0	301.3	472.7	986.9	1102.1	1085.4	1059.8	912.1	784.8	456.7
75°	193.2	199.6	217.5	305.7	665.8	763.7	748.3	763.1	681.2	594.2	332.6
77.5°	72.9	79.3	123.4	195.1	394.0	468.8	453.5	462.4	378.7	300.0	165.7
80°	19.8	21.1	40.9	92.7	179.1	233.5	212.4	182.3	140.7	138.2	87.6
82.5°	8.3	9.6	18.5	49.9	64.0	64.0	53.7	66.5	53.7	64.6	42.2
85°	3.2	3.8	4.5	12.8	8.3	9.0	9.6	12.8	10.9	13.4	9.6
87.5°	0.0	0.0	0.0	0.6	0.6	1.3	0.6	1.3	1.9	1.9	1.9
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°	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8
2.5°	513.6	506.6	496.3	479.7	462.4	452.8	440.7	438.8	426.0	424.7	419.6
5°	516.8	502.1	475.9	443.9	412.6	388.2	370.3	360.7	342.2	342.2	337.1
7.5°	519.4	496.3	454.1	406.8	363.9	331.3	307.0	296.8	280.2	278.9	275.0
10°	520.0	489.3	430.5	369.1	316.6	283.3	259.7	248.2	233.5	232.2	229.6
12.5°	525.1	485.5	409.4	336.4	282.7	246.9	223.9	214.3	202.8	201.5	198.9
15°	533.4	485.5	391.4	308.9	252.6	219.4	199.6	190.6	182.3	181.0	179.7
17.5°	541.8	484.2	373.5	283.3	227.7	197.6	180.4	173.3	166.9	166.3	165.0
20°	549.4	483.5	355.6	261.6	208.5	179.7	166.3	159.9	154.8	154.8	154.1
22.5°	557.1	482.3	338.4	241.1	191.9	166.3	154.8	147.8	143.9	143.9	143.3
25°	568.6	482.3	322.4	223.9	178.5	156.1	144.6	139.4	136.2	135.6	135.6
27.5°	582.0	486.1	308.3	208.5	166.9	145.8	136.9	131.8	127.9	126.6	127.3
30°	596.8	489.3	295.5	195.1	156.1	138.2	128.6	123.4	119.6	118.3	119.0
32.5°	611.5	493.1	284.0	182.9	145.2	131.1	121.5	115.8	111.9	111.3	111.3
35°	627.5	497.0	272.5	172.7	136.2	124.1	115.1	108.7	106.2	104.9	105.5
37.5°	643.5	503.4	261.6	163.1	129.8	117.7	109.4	103.0	101.1	100.4	100.4
40°	662.6	513.0	257.1	156.7	124.1	111.9	104.9	98.5	96.6	96.6	96.6
42.5°	678.6	520.6	253.3	149.7	119.6	106.8	100.4	95.3	94.0	93.4	94.0
45°	694.6	527.7	248.2	143.3	113.9	101.7	96.6	91.5	90.2	90.2	90.2
47.5°	710.6	531.5	241.1	136.9	108.7	97.2	92.7	88.3	87.0	87.0	87.0
50°	723.4	534.7	230.9	129.8	103.0	93.4	88.9	84.4	83.1	83.1	83.1
52.5°	736.2	535.4	220.0	121.5	97.2	88.9	85.1	80.6	79.3	78.7	78.7
55°	747.7	534.7	207.2	111.9	90.8	83.8	80.6	76.8	74.2	71.6	72.9
57.5°	756.0	534.1	192.5	102.3	84.4	78.7	77.4	72.3	67.2	60.8	62.0
60°	752.8	527.0	176.5	90.2	77.4	73.6	73.6	66.5	57.6	54.4	55.0
62.5°	732.4	507.2	159.9	77.4	70.4	68.4	67.8	60.1	53.1	49.9	50.5
65°	671.0	457.3	135.6	65.9	63.3	62.7	62.7	55.6	49.3	45.4	46.1
67.5°	577.6	383.8	110.7	55.6	56.3	57.6	57.6	51.2	44.8	40.9	41.6
70°	463.1	300.0	88.3	48.0	48.6	50.5	51.8	46.1	40.3	36.5	36.5
72.5°	348.6	227.7	71.0	40.3	43.5	43.5	45.4	40.9	35.2	31.3	32.0
75°	252.6	163.1	56.3	33.9	37.7	37.1	37.1	34.5	30.1	27.5	27.5
77.5°	119.6	85.7	44.8	24.3	29.4	28.8	29.4	27.5	25.6	23.0	23.7
80°	58.8	42.2	28.8	17.3	20.5	21.1	23.0	21.7	21.1	19.2	19.2
82.5°	28.1	16.6	13.4	12.2	14.1	14.7	16.0	16.0	16.6	15.4	15.4
85°	7.7	4.5	5.8	7.7	9.0	9.6	10.9	11.5	11.5	10.9	11.5
87.5°	1.9	1.9	2.6	3.8	4.5	5.1	5.8	5.8	2.6	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)