

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: P798578

Luminaire Tested: **ARCH1-20-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798578
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: ARCH1-20-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

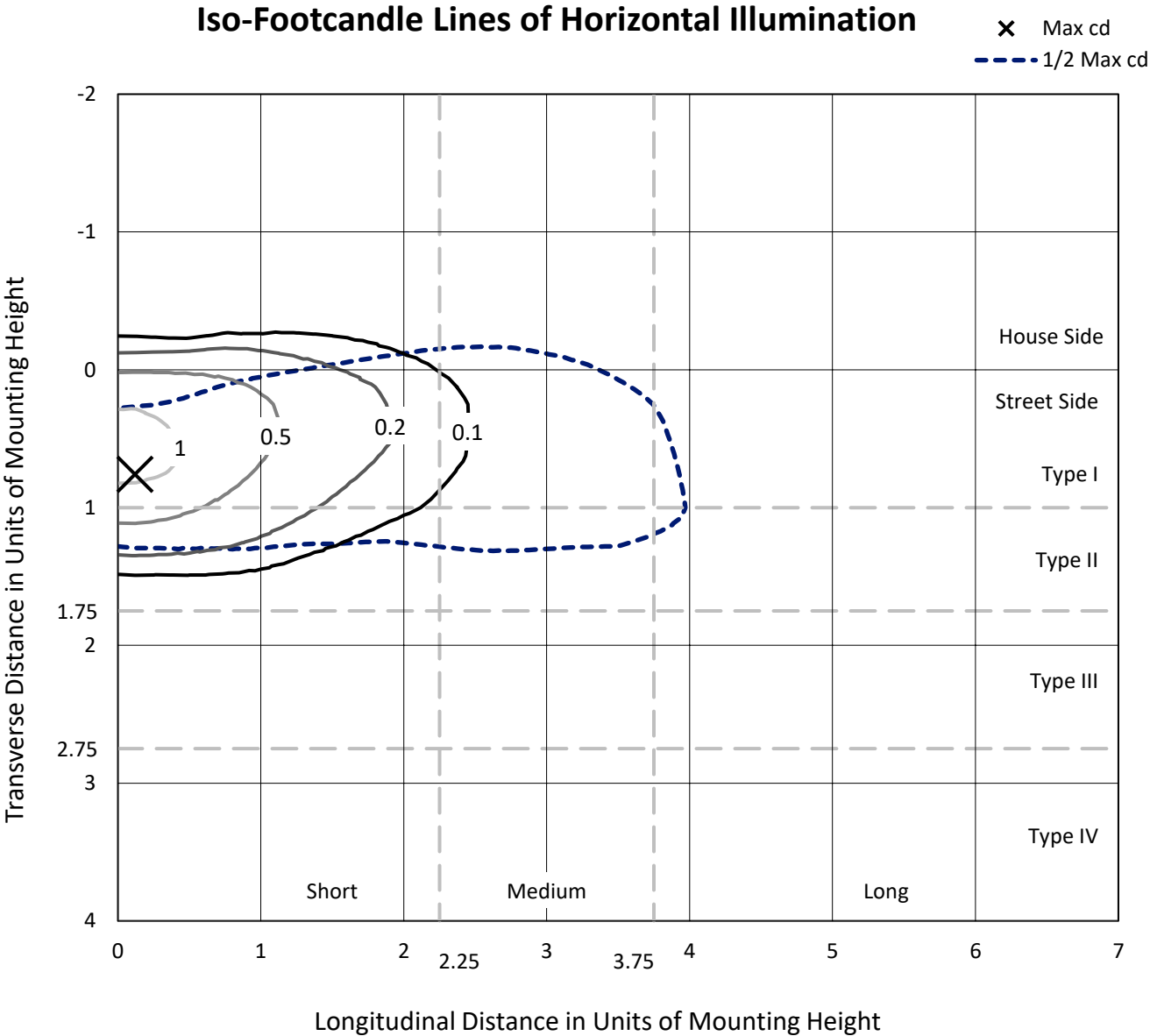
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2148 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 23.5
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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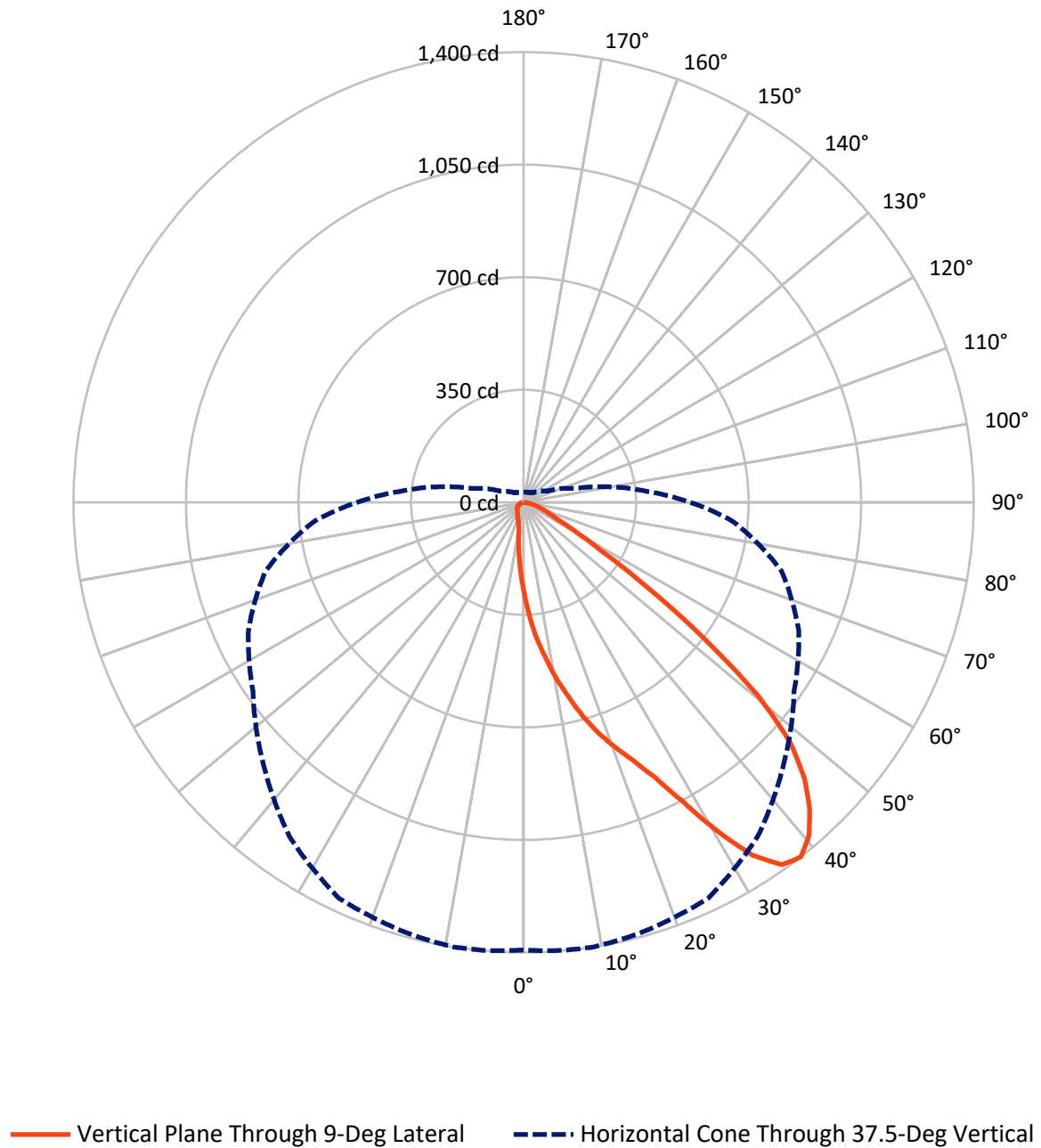


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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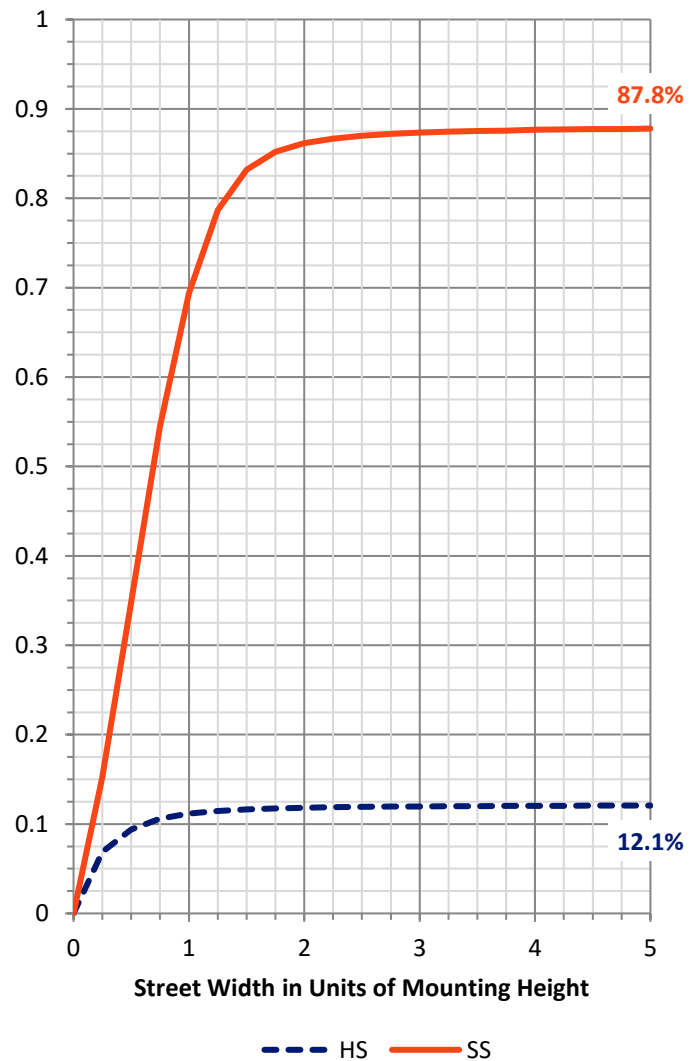
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.2	0.0	261.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	1886.8	0.0	1886.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	2148.0	0.0	2148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	1.3
10°-20°	99.2	4.6
20°-30°	203.8	9.5
30°-40°	360.3	16.8
40°-50°	478.6	22.3
50°-60°	453.9	21.1
60°-70°	346.3	16.1
70°-80°	167.9	7.8
80°-90°	9.4	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°	2148.0	100.0
0°-180°	2148.0	100.0

Coefficient of Utilization



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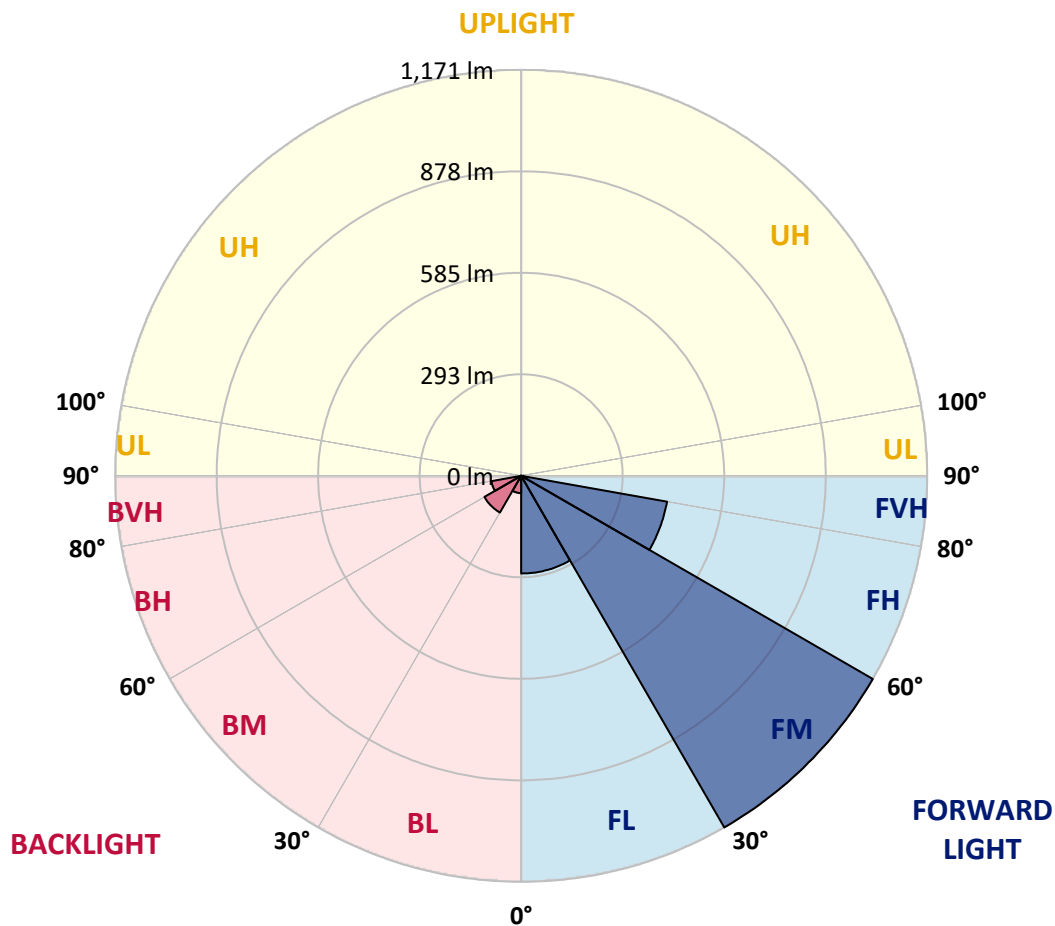
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.7	13.1			
FM	(30°-60°)	1170.6	54.5			
FH	(60°-80°)	427.0	19.9			G0/660
FVH	(80°-90°)	7.5	0.3			G0/10
BL	(0°-30°)	49.9	2.3	B0/110		
BM	(30°-60°)	122.2	5.7	B0/220		
BH	(60°-80°)	87.2	4.1	B0/110		G0/110
BVH	(80°-90°)	2.0	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-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9
2.5°	351.8	345.7	352.7	351.8	345.7	341.7	329.4	325.4	310.8	300.3	291.0
5°	424.1	418.0	424.1	422.4	413.6	403.9	383.6	370.4	344.3	321.4	300.7
7.5°	484.1	484.1	486.8	487.2	476.6	461.6	436.5	416.7	380.1	344.8	311.7
10°	548.9	549.4	555.1	551.1	537.0	516.7	485.0	459.9	415.8	369.5	322.3
12.5°	618.1	618.6	620.3	618.6	601.8	575.8	537.5	504.4	453.7	397.7	336.8
15°	687.4	687.8	690.0	686.9	668.4	638.0	594.3	553.8	493.8	429.4	354.5
17.5°	752.2	753.1	754.8	750.9	731.5	695.3	650.8	601.8	536.6	463.4	374.3
20°	810.4	811.3	812.6	807.3	787.9	751.7	703.7	652.5	580.2	498.2	395.9
22.5°	869.0	869.9	872.1	865.0	843.4	802.0	754.8	701.9	626.5	536.6	421.1
25°	944.0	944.8	946.6	936.5	906.9	858.4	808.6	754.4	676.8	579.8	451.9
27.5°	1053.8	1052.9	1052.9	1034.4	983.6	920.6	862.8	807.7	731.0	626.1	485.9
30°	1189.5	1187.3	1186.0	1160.9	1088.6	990.7	918.4	857.6	783.0	675.0	522.5
32.5°	1311.2	1311.2	1308.6	1282.1	1205.4	1085.1	977.5	906.0	833.3	724.4	560.4
35°	1383.1	1386.2	1384.9	1365.0	1309.0	1186.5	1057.3	964.2	886.2	776.0	605.8
37.5°	1392.8	1399.0	1400.3	1388.4	1358.9	1269.4	1145.9	1027.3	944.4	831.5	649.9
40°	1353.6	1366.8	1366.8	1365.0	1354.4	1308.6	1220.4	1100.5	1004.4	889.3	694.4
42.5°	1293.2	1306.8	1305.1	1311.7	1309.0	1299.3	1262.3	1168.8	1064.3	948.8	735.0
45°	1214.2	1228.3	1224.8	1236.7	1242.0	1252.6	1257.9	1216.4	1123.4	1013.6	780.4
47.5°	1087.7	1111.5	1116.8	1138.0	1160.0	1193.1	1218.2	1233.6	1178.5	1083.3	829.8
50°	900.8	934.3	944.8	989.4	1049.8	1118.1	1158.7	1212.5	1217.3	1154.7	883.1
52.5°	645.0	683.8	700.1	773.3	897.7	1016.7	1089.9	1165.7	1232.3	1223.1	940.9
55°	417.1	450.2	466.0	534.8	700.1	887.1	1008.8	1105.3	1223.9	1285.7	1007.0
57.5°	257.0	276.0	286.6	345.7	497.8	720.9	902.5	1049.8	1198.4	1339.9	1075.8
60°	173.3	184.3	189.6	217.4	338.2	538.8	756.6	991.6	1164.9	1376.5	1138.4
62.5°	115.1	118.6	123.9	141.1	223.1	378.3	581.1	887.5	1139.7	1378.7	1184.7
65°	89.1	90.8	93.0	100.5	137.6	264.5	408.7	719.1	1102.3	1332.0	1199.2
67.5°	70.1	71.9	74.5	78.5	99.6	179.4	278.2	526.9	1025.5	1258.8	1175.4
70°	55.1	56.4	58.2	61.7	77.6	130.1	183.9	350.1	870.8	1189.1	1100.5
72.5°	43.6	45.0	46.7	50.3	63.0	95.2	126.1	218.2	671.5	1104.0	956.3
75°	34.4	35.3	36.6	40.1	50.7	74.1	85.5	130.5	456.3	948.4	745.1
77.5°	17.2	21.2	24.2	27.8	37.0	51.1	56.9	72.3	192.7	486.8	355.4
80°	10.1	12.3	13.2	15.4	24.2	30.9	30.9	29.1	60.8	186.9	145.1
82.5°	5.7	7.9	8.4	8.8	14.5	17.6	14.1	10.6	12.3	62.6	42.3
85°	1.8	2.6	3.1	3.5	4.8	5.3	4.8	4.4	3.5	6.2	4.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.9	0.9	0.9	1.3	1.3	1.3
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°	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9	283.9
2.5°	285.7	280.0	268.9	258.8	249.1	242.1	235.4	229.3	224.9	221.3	220.9
5°	289.7	278.2	257.0	237.2	219.1	204.1	191.4	181.2	173.7	168.4	168.0
7.5°	295.0	277.3	245.1	215.6	188.7	167.1	148.6	134.9	125.2	121.2	118.2
10°	299.4	276.4	233.2	194.0	158.7	131.4	109.3	95.7	88.6	86.0	84.7
12.5°	306.9	277.3	223.1	174.2	132.7	100.5	83.8	76.3	73.2	71.0	70.5
15°	317.9	281.3	213.4	154.8	106.3	81.1	71.4	66.6	63.5	63.0	62.6
17.5°	328.9	284.8	204.6	134.9	88.2	70.5	63.9	60.0	57.8	57.3	57.3
20°	341.7	289.2	194.9	116.0	75.4	63.5	58.2	55.1	52.5	52.0	52.0
22.5°	356.7	295.4	185.6	99.2	67.0	58.2	53.8	50.3	48.1	47.6	47.6
25°	377.0	304.7	178.1	86.9	61.3	53.8	49.8	46.7	45.0	44.1	44.1
27.5°	399.5	317.4	172.8	79.4	57.3	50.3	46.3	43.6	41.9	41.0	41.0
30°	424.6	331.6	169.3	76.3	55.1	47.2	43.6	41.0	38.8	38.4	38.4
32.5°	452.4	347.9	167.1	76.7	54.7	45.0	41.0	38.4	36.6	35.7	35.7
35°	483.2	365.9	165.8	79.4	55.6	43.2	38.8	36.2	34.4	33.5	33.5
37.5°	517.6	387.1	165.8	82.0	57.8	42.8	36.6	33.9	32.6	31.7	31.7
40°	549.8	409.6	167.5	85.1	60.0	42.8	34.8	32.6	30.9	30.0	30.0
42.5°	574.9	422.4	168.9	88.2	61.3	42.3	33.1	30.9	29.5	28.7	28.7
45°	603.6	436.1	166.2	89.5	61.3	41.4	31.7	29.5	28.2	27.3	27.3
47.5°	635.3	452.8	165.8	90.4	60.0	39.7	30.4	28.2	27.3	26.5	26.5
50°	667.5	471.3	166.7	89.9	58.2	37.0	28.7	27.3	26.0	25.1	25.1
52.5°	704.1	490.7	168.4	89.1	54.2	33.9	27.3	26.0	24.7	23.8	23.4
55°	744.7	511.9	172.0	87.3	48.9	30.9	26.0	24.7	22.9	22.0	21.6
57.5°	791.4	537.9	175.9	83.8	43.2	28.2	24.7	22.9	20.3	19.0	18.5
60°	835.9	567.4	180.3	75.4	37.5	25.6	23.4	20.7	18.1	17.2	16.8
62.5°	877.8	596.5	182.5	60.4	31.7	23.4	22.0	19.0	16.3	15.4	15.0
65°	904.7	628.3	177.7	41.0	26.0	21.6	20.3	17.6	15.0	13.7	13.7
67.5°	906.5	643.3	160.9	26.9	21.2	19.4	18.5	15.9	13.2	12.3	11.9
70°	862.0	620.8	123.0	21.2	17.6	16.8	16.8	14.1	11.5	10.6	10.1
72.5°	759.7	549.8	78.5	17.2	15.0	14.1	14.1	11.9	10.1	8.8	8.4
75°	599.6	424.1	41.9	14.1	12.3	11.9	11.0	9.7	8.4	7.5	7.1
77.5°	275.6	186.9	19.4	10.1	9.3	9.3	8.4	7.1	6.6	5.7	5.7
80°	108.9	63.5	9.7	6.6	6.2	6.2	6.2	4.8	4.8	4.0	3.5
82.5°	30.0	13.2	4.8	4.0	4.0	4.0	3.5	3.1	3.1	2.6	2.6
85°	3.1	2.2	2.2	2.2	2.2	1.8	1.8	1.3	0.9	0.9	0.9
87.5°	1.3	1.3	1.3	1.3	1.3	0.9	0.4	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)