

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: P798612

Luminaire Tested: **ARCH1-20-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

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



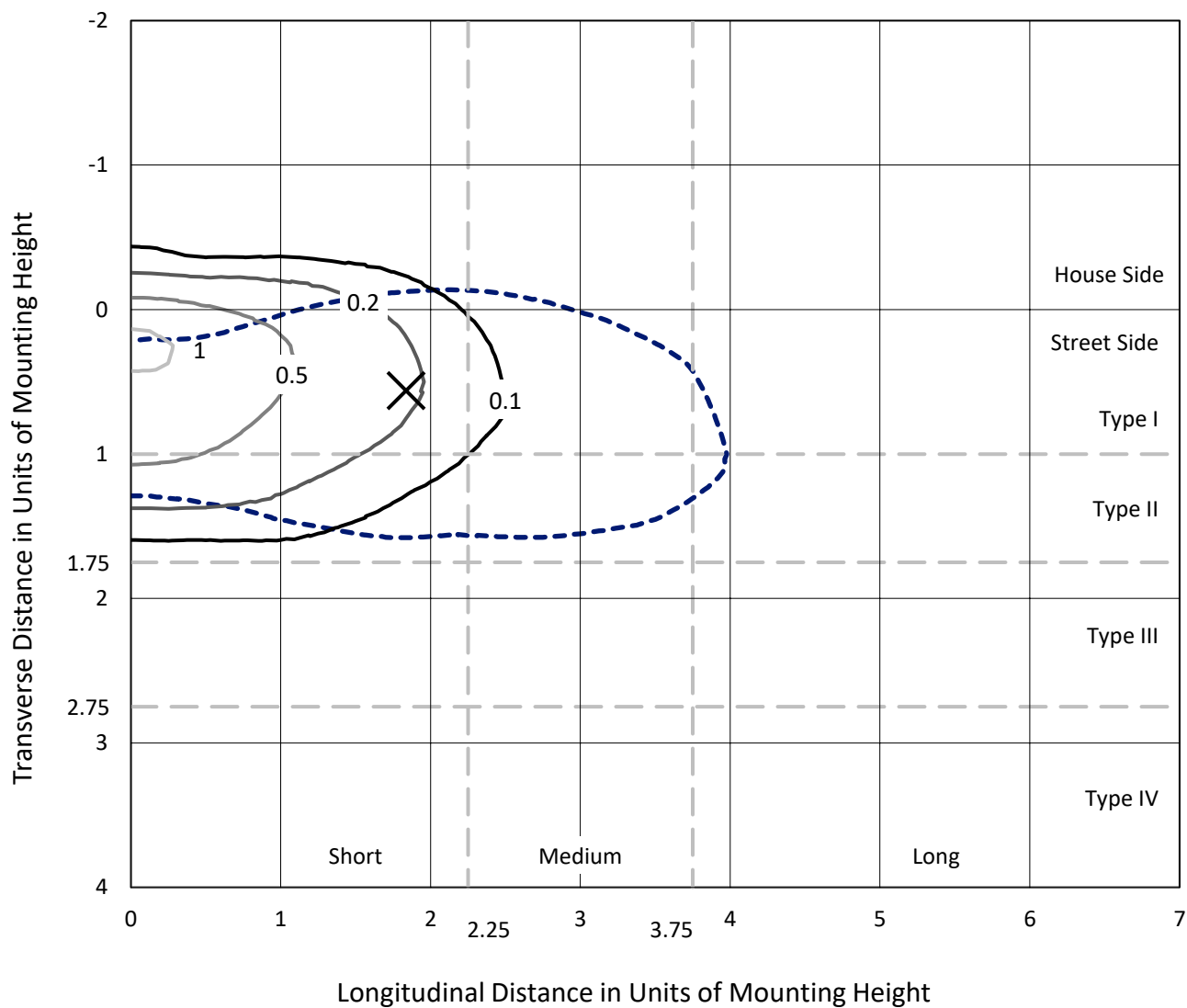
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Iso-Footcandle Lines of Horizontal Illumination

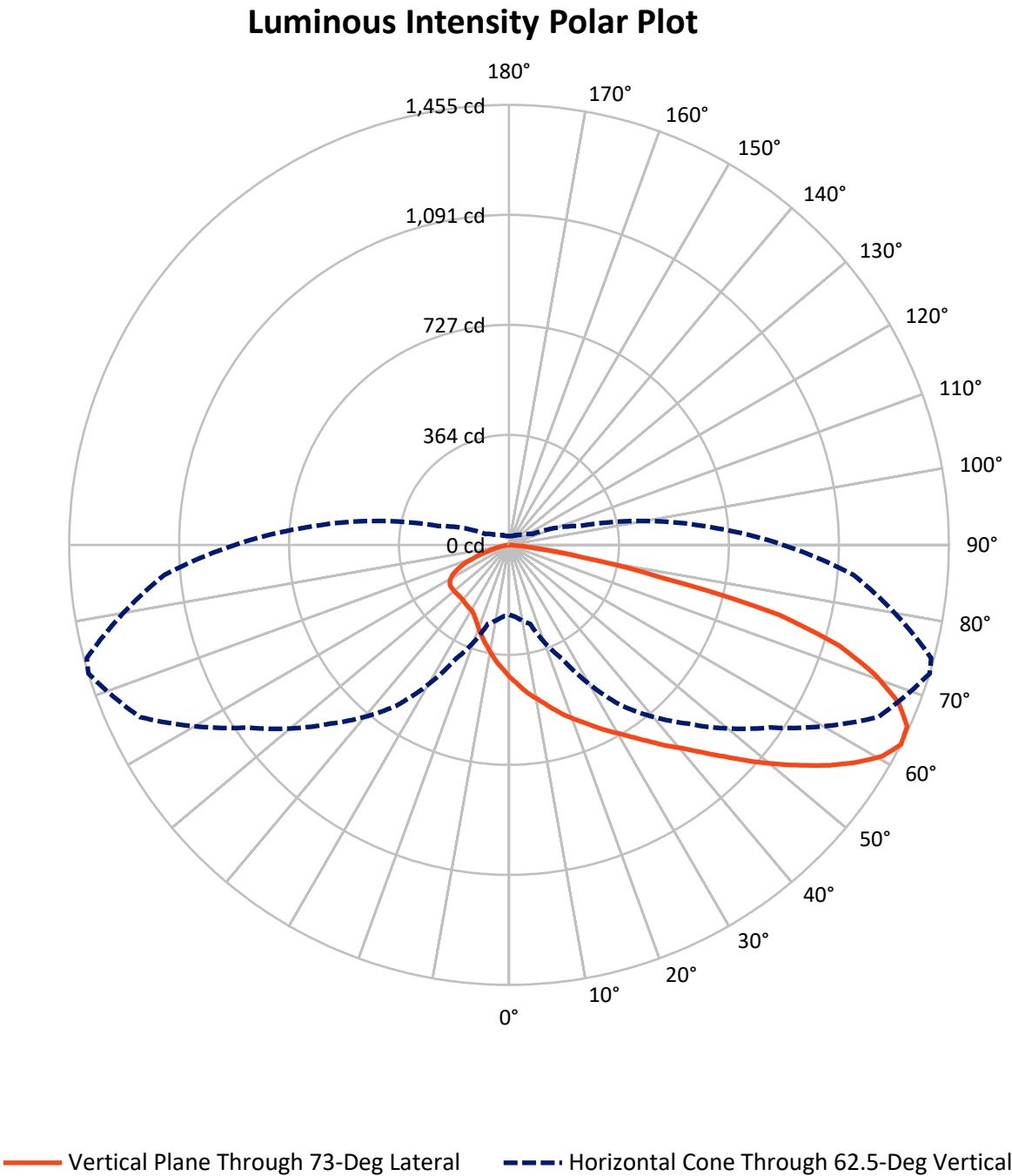
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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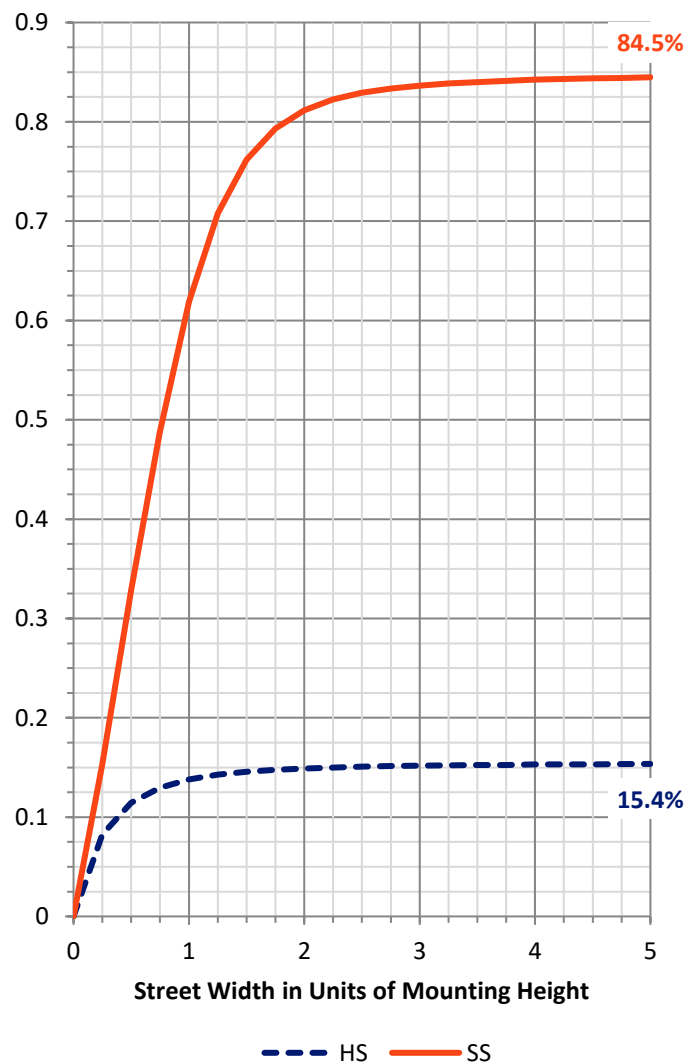
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	358.5	0.0	358.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	1954.4	0.0	1954.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	2313.0	0.0	2313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.8
10°-20°	127.7	5.5
20°-30°	212.5	9.2
30°-40°	320.7	13.9
40°-50°	448.2	19.4
50°-60°	495.1	21.4
60°-70°	431.3	18.6
70°-80°	217.8	9.4
80°-90°	17.5	0.8
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°	2313.0	100.0
0°-180°	2313.0	100.0

Coefficient of Utilization



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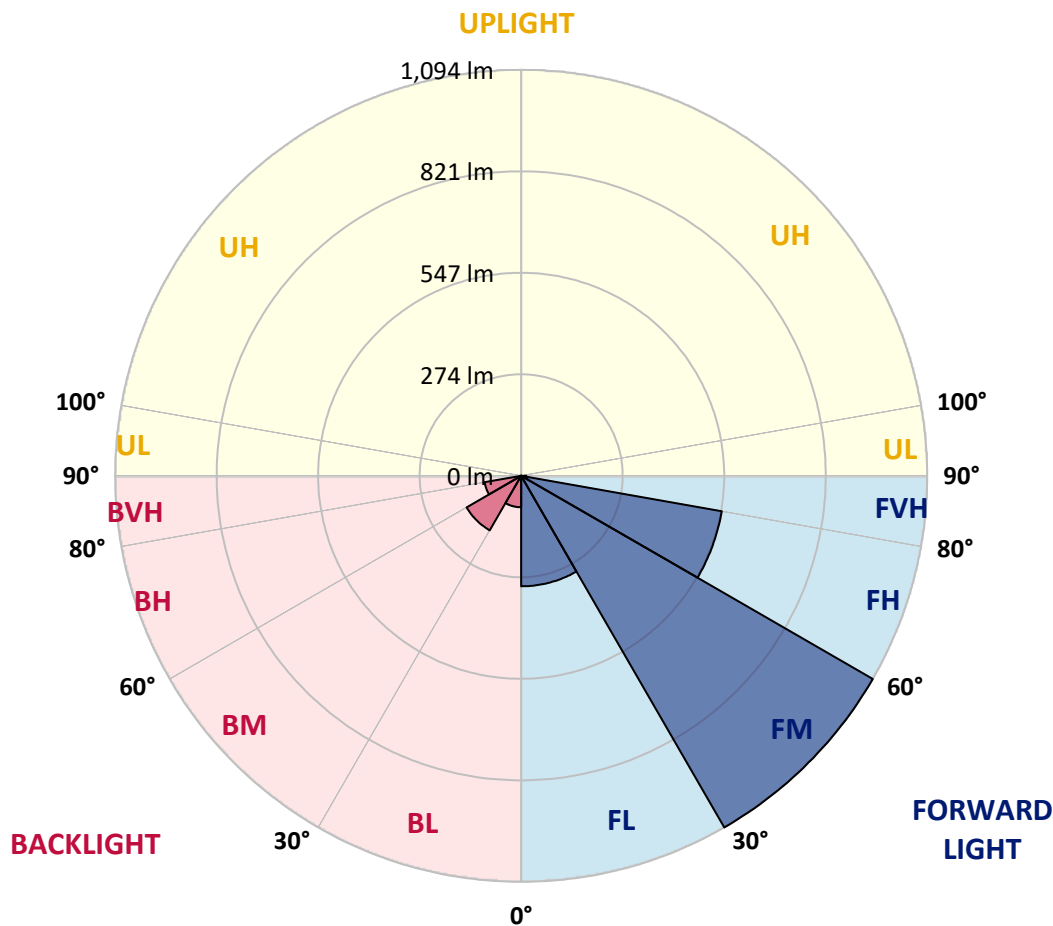
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.8	12.9			
FM	(30°-60°)	1094.1	47.3			
FH	(60°-80°)	549.0	23.7			G0/660
FVH	(80°-90°)	13.5	0.6			G1/100
BL	(0°-30°)	84.7	3.7	B0/110		
BM	(30°-60°)	169.8	7.3	B0/220		
BH	(60°-80°)	100.1	4.3	B0/110		G0/110
BVH	(80°-90°)	4.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0
2.5°	498.5	504.0	501.0	503.0	492.9	486.4	478.8	464.2	456.1	455.1	445.5
5°	571.5	577.6	572.5	571.0	553.4	538.3	521.1	495.4	478.3	475.3	454.1
7.5°	644.6	650.2	644.1	639.6	615.9	589.2	564.0	526.2	499.5	494.4	461.2
10°	696.0	701.1	696.5	692.0	667.3	640.1	604.3	554.9	518.6	510.5	465.7
12.5°	734.8	737.8	735.8	731.8	708.6	679.4	645.1	587.2	540.3	530.2	472.7
15°	766.6	771.6	769.1	766.1	743.9	714.7	681.9	620.9	565.5	552.9	483.3
17.5°	787.7	791.3	791.8	791.8	772.1	743.4	711.6	651.7	590.7	574.6	493.4
20°	797.3	801.4	803.9	807.9	791.8	767.1	734.8	677.9	614.4	596.2	503.0
22.5°	801.9	805.4	811.9	821.0	807.9	787.2	757.5	702.1	638.1	618.9	514.1
25°	805.4	809.9	819.5	836.6	827.6	809.9	784.2	729.8	666.3	646.6	530.2
27.5°	815.0	820.5	829.6	850.2	839.2	830.6	812.4	759.5	696.0	675.9	549.9
30°	848.2	852.8	852.3	865.4	851.8	849.2	836.6	788.2	724.7	704.6	573.0
32.5°	908.7	913.2	902.2	897.1	867.4	867.9	862.8	819.0	759.0	738.4	599.8
35°	973.7	978.8	964.1	955.6	905.7	891.1	893.6	857.3	797.3	776.7	633.0
37.5°	1031.7	1037.7	1025.1	1012.5	962.1	928.4	927.9	900.1	841.2	820.0	669.8
40°	1063.4	1070.5	1078.0	1071.0	1018.1	980.8	964.6	944.0	884.5	862.8	709.6
42.5°	1078.5	1098.2	1111.8	1107.3	1063.9	1026.1	1007.0	989.8	937.4	916.3	757.0
45°	1036.2	1036.7	1065.4	1090.1	1082.1	1056.9	1053.3	1041.3	997.9	977.7	810.4
47.5°	983.3	979.3	999.4	1043.3	1065.9	1072.5	1093.2	1098.2	1067.0	1046.8	864.9
50°	856.3	858.8	924.3	987.3	1031.7	1074.0	1121.4	1156.7	1138.0	1118.9	922.3
52.5°	696.5	702.6	777.7	916.3	986.3	1058.9	1138.0	1215.1	1210.6	1192.5	979.8
55°	558.4	568.0	647.6	797.8	928.4	1025.1	1145.1	1268.6	1285.7	1269.1	1036.2
57.5°	426.9	437.0	504.0	658.2	854.3	970.2	1140.0	1315.4	1355.7	1345.2	1088.1
60°	321.5	331.6	374.5	533.7	761.5	908.7	1114.8	1346.2	1418.7	1407.7	1125.9
62.5°	230.3	238.4	270.1	415.3	648.6	835.6	1052.8	1346.7	1454.5	1445.5	1144.1
65°	165.8	165.8	191.5	296.3	542.8	747.9	959.1	1284.7	1447.0	1444.4	1131.5
67.5°	119.4	120.5	141.1	207.1	432.9	641.6	837.6	1174.3	1388.5	1401.1	1086.1
70°	84.7	87.2	96.8	144.6	327.1	506.5	707.6	1029.7	1283.2	1305.3	998.4
72.5°	65.5	67.0	73.6	100.8	238.9	376.5	564.0	868.4	1142.6	1167.8	879.0
75°	50.4	51.9	57.0	74.1	171.4	264.1	400.7	673.8	921.3	966.2	706.1
77.5°	36.8	38.8	42.3	53.9	99.8	167.8	242.9	379.0	508.5	529.7	369.9
80°	17.1	19.7	24.7	34.8	53.9	79.1	86.2	146.2	244.4	255.5	200.6
82.5°	9.6	12.1	14.1	21.2	27.2	28.2	29.2	36.8	92.2	101.8	84.2
85°	4.5	6.0	6.6	9.1	9.1	8.1	9.6	7.1	15.1	18.1	17.6
87.5°	0.0	0.5	1.0	2.5	2.0	1.5	1.5	1.5	1.5	2.0	1.5
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°	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0
2.5°	441.0	434.4	419.3	406.2	397.7	390.1	380.0	375.5	367.4	368.9	364.4
5°	443.5	431.4	404.7	380.0	361.9	345.7	328.1	318.0	306.9	305.9	302.4
7.5°	445.0	426.4	388.1	353.3	325.6	300.9	277.2	264.1	250.5	247.5	244.4
10°	443.5	418.8	370.9	325.6	288.8	258.0	231.3	214.7	200.6	197.1	194.0
12.5°	445.0	414.8	354.8	299.9	256.0	221.3	191.0	173.9	160.8	157.2	155.2
15°	448.6	412.3	341.2	276.7	226.8	188.0	158.3	143.6	133.1	129.5	128.5
17.5°	451.6	409.7	326.6	254.0	197.6	158.8	133.1	121.0	111.9	108.4	107.4
20°	455.6	406.2	312.0	232.3	171.9	135.6	112.9	102.3	95.3	92.7	92.2
22.5°	459.1	403.7	298.4	210.7	148.2	116.9	97.8	89.2	84.2	81.6	81.6
25°	468.2	404.7	286.8	190.5	130.5	102.3	86.2	79.6	75.6	74.1	74.1
27.5°	478.8	408.7	277.7	173.4	115.4	91.2	78.1	72.6	70.6	68.5	69.0
30°	493.9	416.8	271.7	159.3	104.3	82.7	71.6	67.5	65.5	65.0	65.0
32.5°	513.1	429.9	271.1	150.2	96.3	76.1	67.0	63.5	62.5	62.0	62.0
35°	535.7	441.5	268.1	146.2	91.2	71.6	63.5	61.0	60.5	60.5	60.5
37.5°	563.0	460.7	266.1	140.6	88.7	69.0	61.0	59.0	59.0	59.0	59.0
40°	591.2	476.3	263.1	135.6	87.7	67.5	59.5	57.0	57.0	57.0	57.0
42.5°	625.0	499.0	262.1	133.1	86.2	66.5	57.5	54.4	54.9	54.9	55.4
45°	665.8	524.7	261.6	130.5	85.7	65.5	55.4	51.9	52.4	51.9	51.9
47.5°	707.1	554.4	263.1	129.0	85.2	64.5	53.9	49.4	49.4	48.9	48.9
50°	750.4	581.6	264.1	127.5	84.2	62.5	51.4	47.4	46.4	45.4	45.9
52.5°	791.3	606.8	264.6	125.0	81.1	59.5	49.4	44.9	43.3	41.8	42.3
55°	832.1	631.0	265.6	122.0	77.1	56.4	46.9	42.3	40.3	38.3	38.3
57.5°	868.9	652.2	263.1	114.4	72.6	53.4	44.4	39.3	36.3	34.3	34.3
60°	894.1	667.3	255.5	103.3	66.5	49.9	41.8	36.3	32.8	31.2	31.2
62.5°	906.2	669.8	241.9	85.2	59.0	46.4	38.8	33.3	30.2	29.2	29.2
65°	894.6	658.7	220.7	64.0	50.9	42.3	35.8	30.7	27.7	25.2	25.2
67.5°	854.3	627.5	191.5	48.4	43.3	38.3	32.8	28.2	24.7	22.7	22.7
70°	773.1	562.5	148.2	38.8	36.8	33.3	29.7	25.2	22.2	19.7	19.7
72.5°	666.8	476.8	104.3	31.2	31.2	28.2	25.2	22.2	19.2	17.1	17.1
75°	511.6	352.8	70.1	25.2	25.7	23.7	20.7	18.1	16.1	14.6	14.6
77.5°	279.2	174.4	42.8	18.6	19.2	18.1	16.1	14.6	13.6	12.1	12.1
80°	135.6	76.6	24.7	13.1	13.6	13.1	12.1	10.6	10.6	9.6	9.6
82.5°	57.0	28.7	13.1	9.1	9.1	8.1	7.6	7.6	7.6	7.1	7.1
85°	14.1	5.5	5.5	5.0	5.0	5.0	4.5	4.5	4.5	3.5	4.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	0.5	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)