

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: P798610

Luminaire Tested: **ARCH1-20-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798610
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: ARCH1-20-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 2455 lumens
Efficiency: N/A
Efficacy: 104.5 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

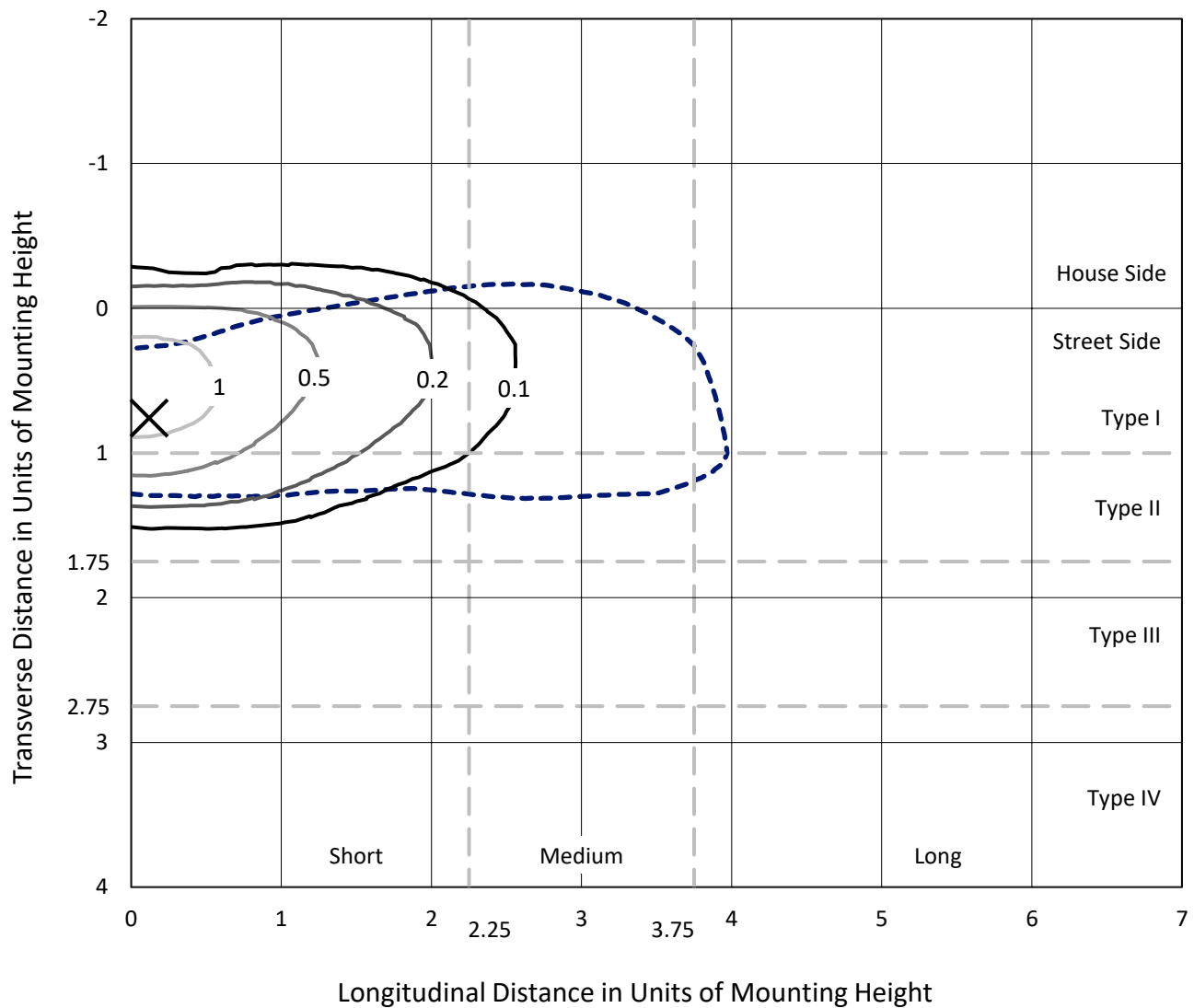


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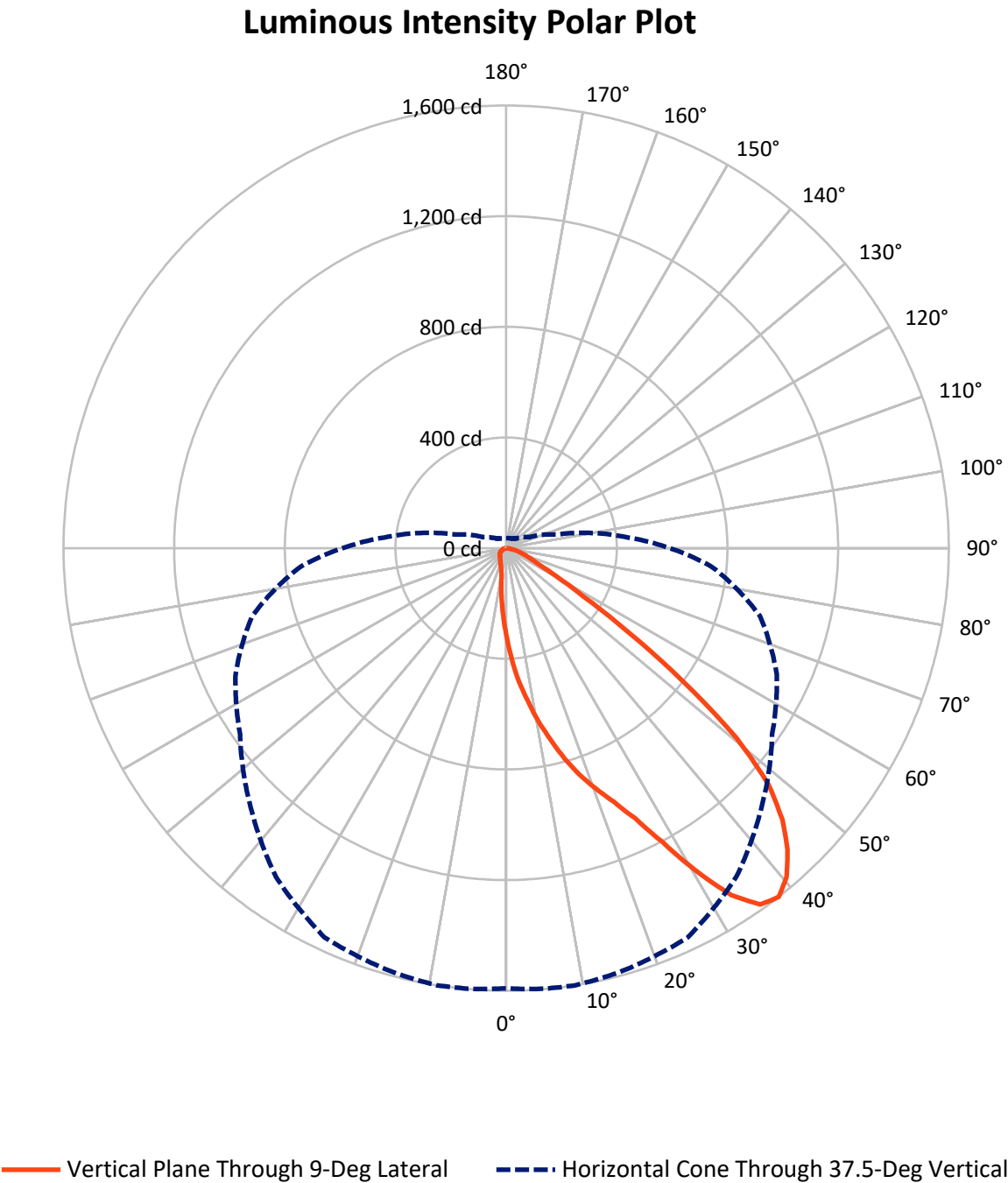
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



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

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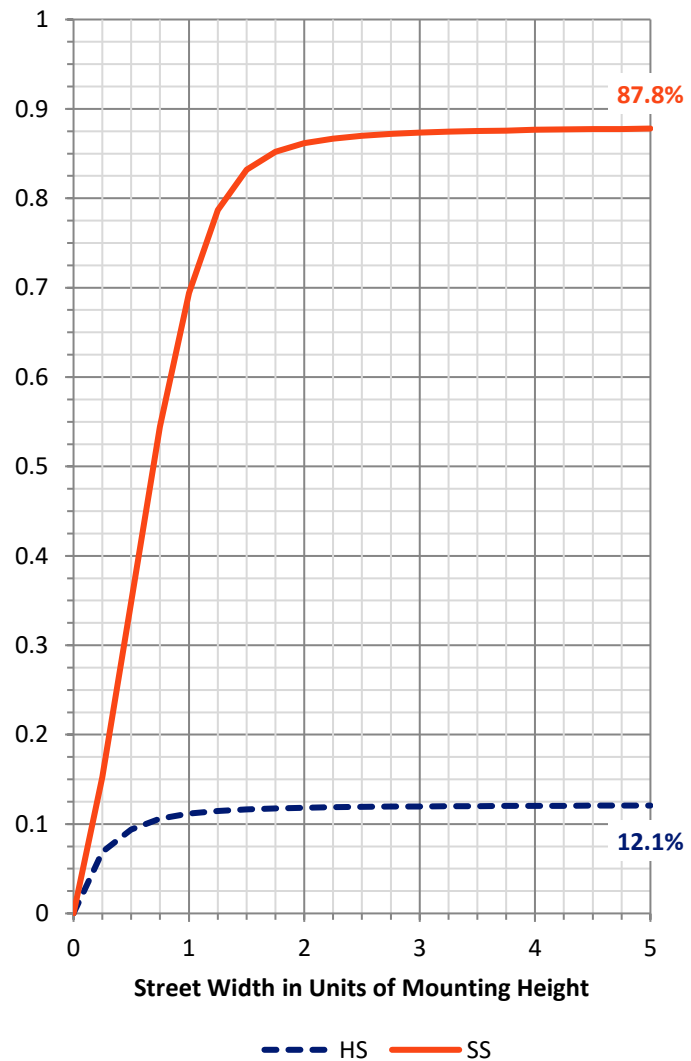
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.6	0.0	298.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2156.4	0.0	2156.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	2455.0	0.0	2455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	1.3
10°-20°	113.4	4.6
20°-30°	233.0	9.5
30°-40°	411.8	16.8
40°-50°	547.0	22.3
50°-60°	518.8	21.1
60°-70°	395.8	16.1
70°-80°	191.9	7.8
80°-90°	10.8	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°	2455.0	100.0
0°-180°	2455.0	100.0

Coefficient of Utilization



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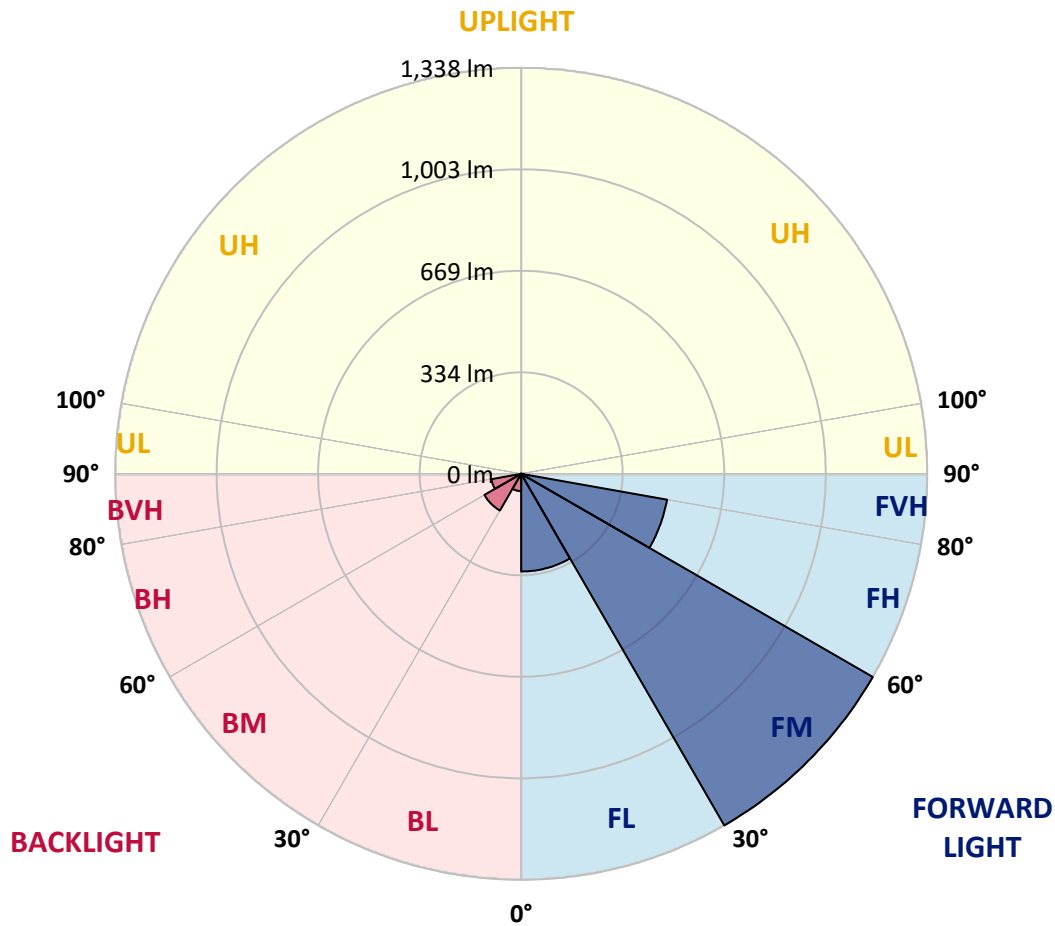
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.0	13.1			
FM	(30°-60°)	1337.9	54.5			
FH	(60°-80°)	488.0	19.9			G0/660
FVH	(80°-90°)	8.5	0.3			G0/10
BL	(0°-30°)	57.0	2.3	B0/110		
BM	(30°-60°)	139.7	5.7	B0/220		
BH	(60°-80°)	99.6	4.1	B0/110		G0/110
BVH	(80°-90°)	2.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5
2.5°	402.1	395.1	403.1	402.1	395.1	390.5	376.4	371.9	355.3	343.2	332.6
5°	484.8	477.7	484.8	482.8	472.7	461.6	438.4	423.3	393.6	367.4	343.7
7.5°	553.3	553.3	556.3	556.8	544.7	527.6	498.9	476.2	434.4	394.1	356.3
10°	627.4	627.9	634.4	629.9	613.8	590.6	554.3	525.6	475.2	422.3	368.4
12.5°	706.5	707.0	709.0	707.0	687.8	658.1	614.3	576.5	518.5	454.5	385.0
15°	785.6	786.1	788.6	785.1	763.9	729.2	679.3	632.9	564.4	490.8	405.1
17.5°	859.7	860.7	862.7	858.2	836.0	794.7	743.8	687.8	613.3	529.6	427.8
20°	926.2	927.2	928.7	922.7	900.5	859.2	804.2	745.8	663.2	569.4	452.5
22.5°	993.2	994.2	996.7	988.7	964.0	916.6	862.7	802.2	716.1	613.3	481.2
25°	1078.9	1079.9	1081.9	1070.3	1036.6	981.1	924.2	862.2	773.5	662.6	516.5
27.5°	1204.4	1203.3	1203.3	1182.2	1124.2	1052.2	986.2	923.2	835.5	715.6	555.3
30°	1359.6	1357.0	1355.5	1326.8	1244.2	1132.3	1049.7	980.1	895.0	771.5	597.1
32.5°	1498.6	1498.6	1495.6	1465.4	1377.7	1240.1	1117.2	1035.5	952.4	827.9	640.5
35°	1580.8	1584.3	1582.8	1560.1	1496.1	1356.0	1208.4	1102.1	1012.9	886.9	692.4
37.5°	1591.9	1598.9	1600.4	1586.8	1553.1	1450.8	1309.7	1174.1	1079.4	950.4	742.8
40°	1547.0	1562.1	1562.1	1560.1	1548.0	1495.6	1394.8	1257.8	1147.9	1016.4	793.7
42.5°	1478.0	1493.6	1491.6	1499.1	1496.1	1485.0	1442.7	1335.9	1216.5	1084.4	840.0
45°	1387.8	1403.9	1399.9	1413.5	1419.5	1431.6	1437.7	1390.3	1284.0	1158.5	891.9
47.5°	1243.2	1270.4	1276.4	1300.6	1325.8	1363.6	1392.3	1410.0	1347.0	1238.1	948.4
50°	1029.5	1067.8	1079.9	1130.8	1199.8	1277.9	1324.3	1385.8	1391.3	1319.8	1009.3
52.5°	737.2	781.6	800.2	883.9	1026.0	1162.0	1245.7	1332.4	1408.4	1397.9	1075.4
55°	476.7	514.5	532.6	611.2	800.2	1013.9	1153.0	1263.3	1398.9	1469.4	1150.9
57.5°	293.8	315.5	327.5	395.1	568.9	823.9	1031.5	1199.8	1369.6	1531.4	1229.6
60°	198.0	210.6	216.7	248.4	386.5	615.8	864.7	1133.3	1331.3	1573.2	1301.1
62.5°	131.5	135.6	141.6	161.3	255.0	432.4	664.2	1014.4	1302.6	1575.7	1354.0
65°	101.8	103.8	106.3	114.9	157.2	302.3	467.1	821.9	1259.8	1522.3	1370.6
67.5°	80.1	82.1	85.2	89.7	113.9	205.1	318.0	602.2	1172.1	1438.7	1343.4
70°	63.0	64.5	66.5	70.5	88.7	148.7	210.1	400.1	995.2	1359.1	1257.8
72.5°	49.9	51.4	53.4	57.4	72.1	108.8	144.1	249.4	767.5	1261.8	1093.0
75°	39.3	40.3	41.8	45.9	58.0	84.7	97.8	149.2	521.6	1083.9	851.6
77.5°	19.7	24.2	27.7	31.7	42.3	58.5	65.0	82.6	220.2	556.3	406.2
80°	11.6	14.1	15.1	17.6	27.7	35.3	35.3	33.3	69.5	213.7	165.8
82.5°	6.6	9.1	9.6	10.1	16.6	20.2	16.1	12.1	14.1	71.6	48.4
85°	2.0	3.0	3.5	4.0	5.5	6.0	5.5	5.0	4.0	7.1	4.5
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.0	1.0	1.5	1.5	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°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5
2.5°	326.5	320.0	307.4	295.8	284.7	276.6	269.1	262.0	257.0	253.0	252.5
5°	331.1	318.0	293.8	271.1	250.4	233.3	218.7	207.1	198.5	192.5	192.0
7.5°	337.1	317.0	280.2	246.4	215.7	191.0	169.8	154.2	143.1	138.6	135.0
10°	342.2	316.0	266.6	221.7	181.4	150.2	125.0	109.3	101.3	98.3	96.8
12.5°	350.7	317.0	255.0	199.0	151.7	114.9	95.7	87.2	83.6	81.1	80.6
15°	363.3	321.5	243.9	176.9	121.4	92.7	81.6	76.1	72.6	72.1	71.6
17.5°	375.9	325.5	233.8	154.2	100.8	80.6	73.1	68.5	66.0	65.5	65.5
20°	390.5	330.6	222.7	132.5	86.2	72.6	66.5	63.0	60.0	59.5	59.5
22.5°	407.7	337.6	212.1	113.4	76.6	66.5	61.5	57.4	54.9	54.4	54.4
25°	430.8	348.2	203.6	99.3	70.0	61.5	56.9	53.4	51.4	50.4	50.4
27.5°	456.5	362.8	197.5	90.7	65.5	57.4	52.9	49.9	47.9	46.9	46.9
30°	485.3	378.9	193.5	87.2	63.0	53.9	49.9	46.9	44.3	43.8	43.8
32.5°	517.0	397.6	191.0	87.7	62.5	51.4	46.9	43.8	41.8	40.8	40.8
35°	552.3	418.2	189.5	90.7	63.5	49.4	44.3	41.3	39.3	38.3	38.3
37.5°	591.6	442.4	189.5	93.7	66.0	48.9	41.8	38.8	37.3	36.3	36.3
40°	628.4	468.1	191.5	97.3	68.5	48.9	39.8	37.3	35.3	34.3	34.3
42.5°	657.1	482.8	193.0	100.8	70.0	48.4	37.8	35.3	33.8	32.8	32.8
45°	689.9	498.4	190.0	102.3	70.0	47.4	36.3	33.8	32.3	31.2	31.2
47.5°	726.1	517.5	189.5	103.3	68.5	45.4	34.8	32.3	31.2	30.2	30.2
50°	762.9	538.7	190.5	102.8	66.5	42.3	32.8	31.2	29.7	28.7	28.7
52.5°	804.8	560.9	192.5	101.8	62.0	38.8	31.2	29.7	28.2	27.2	26.7
55°	851.1	585.0	196.5	99.8	55.9	35.3	29.7	28.2	26.2	25.2	24.7
57.5°	904.5	614.8	201.1	95.7	49.4	32.3	28.2	26.2	23.2	21.7	21.2
60°	955.4	648.5	206.1	86.2	42.8	29.2	26.7	23.7	20.7	19.7	19.1
62.5°	1003.3	681.8	208.6	69.0	36.3	26.7	25.2	21.7	18.6	17.6	17.1
65°	1034.0	718.1	203.1	46.9	29.7	24.7	23.2	20.2	17.1	15.6	15.6
67.5°	1036.0	735.2	183.9	30.7	24.2	22.2	21.2	18.1	15.1	14.1	13.6
70°	985.2	709.5	140.6	24.2	20.2	19.1	19.1	16.1	13.1	12.1	11.6
72.5°	868.2	628.4	89.7	19.7	17.1	16.1	16.1	13.6	11.6	10.1	9.6
75°	685.3	484.8	47.9	16.1	14.1	13.6	12.6	11.1	9.6	8.6	8.1
77.5°	314.9	213.7	22.2	11.6	10.6	10.6	9.6	8.1	7.6	6.6	6.6
80°	124.5	72.6	11.1	7.6	7.1	7.1	7.1	5.5	5.5	4.5	4.0
82.5°	34.3	15.1	5.5	4.5	4.5	4.5	4.0	3.5	3.5	3.0	3.0
85°	3.5	2.5	2.5	2.5	2.5	2.0	2.0	1.5	1.0	1.0	1.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.0	0.5	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)