

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: P798664

Luminaire Tested: **ARCH1-20-750-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798664
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: ARCH1-20-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

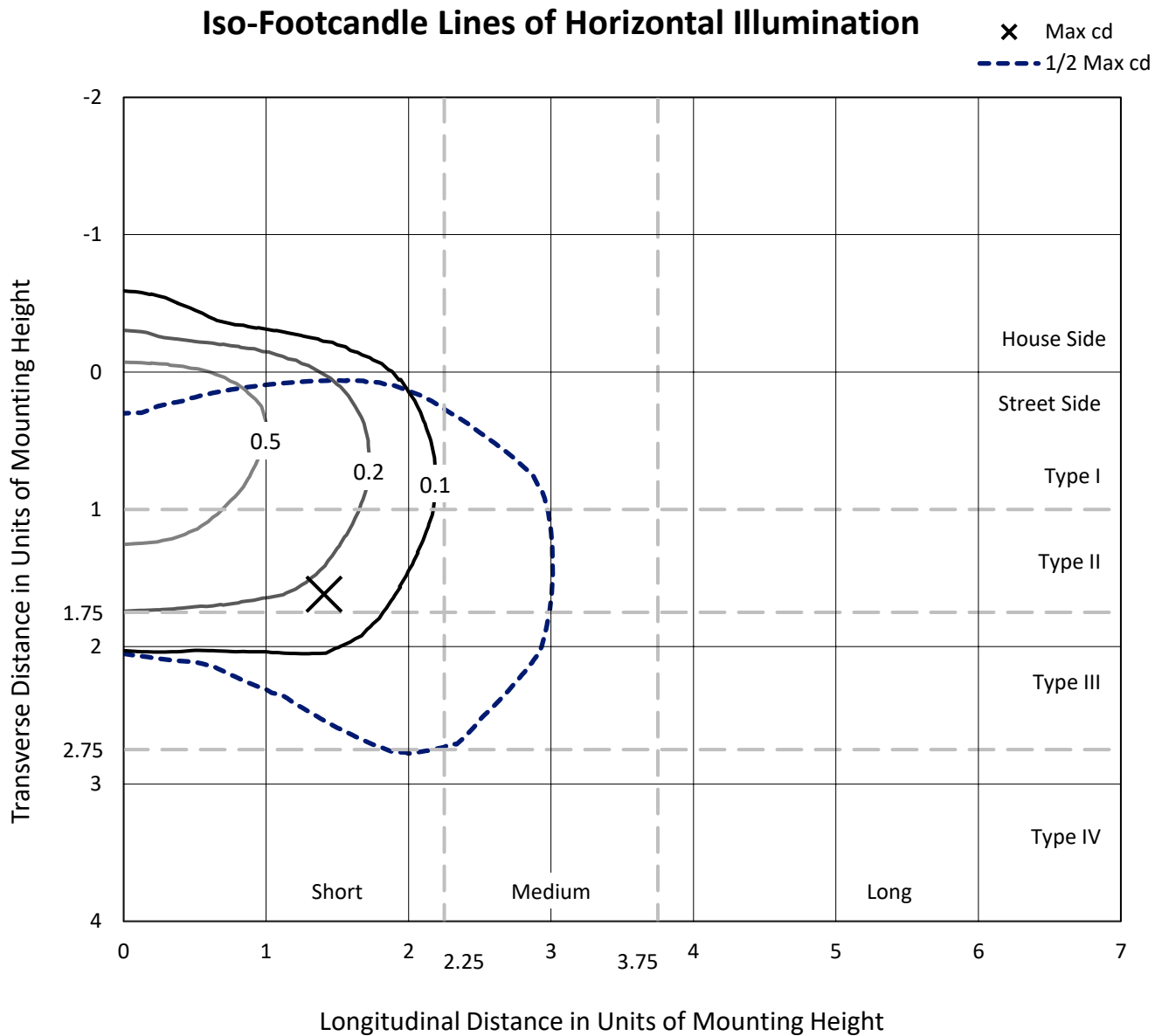
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509 lumens
Efficiency: N/A
Efficacy: 106.8 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): 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



REPORT NUMBER: P798664
CATALOG NUMBER: ARCH1-20-750-U-T4W-HSS

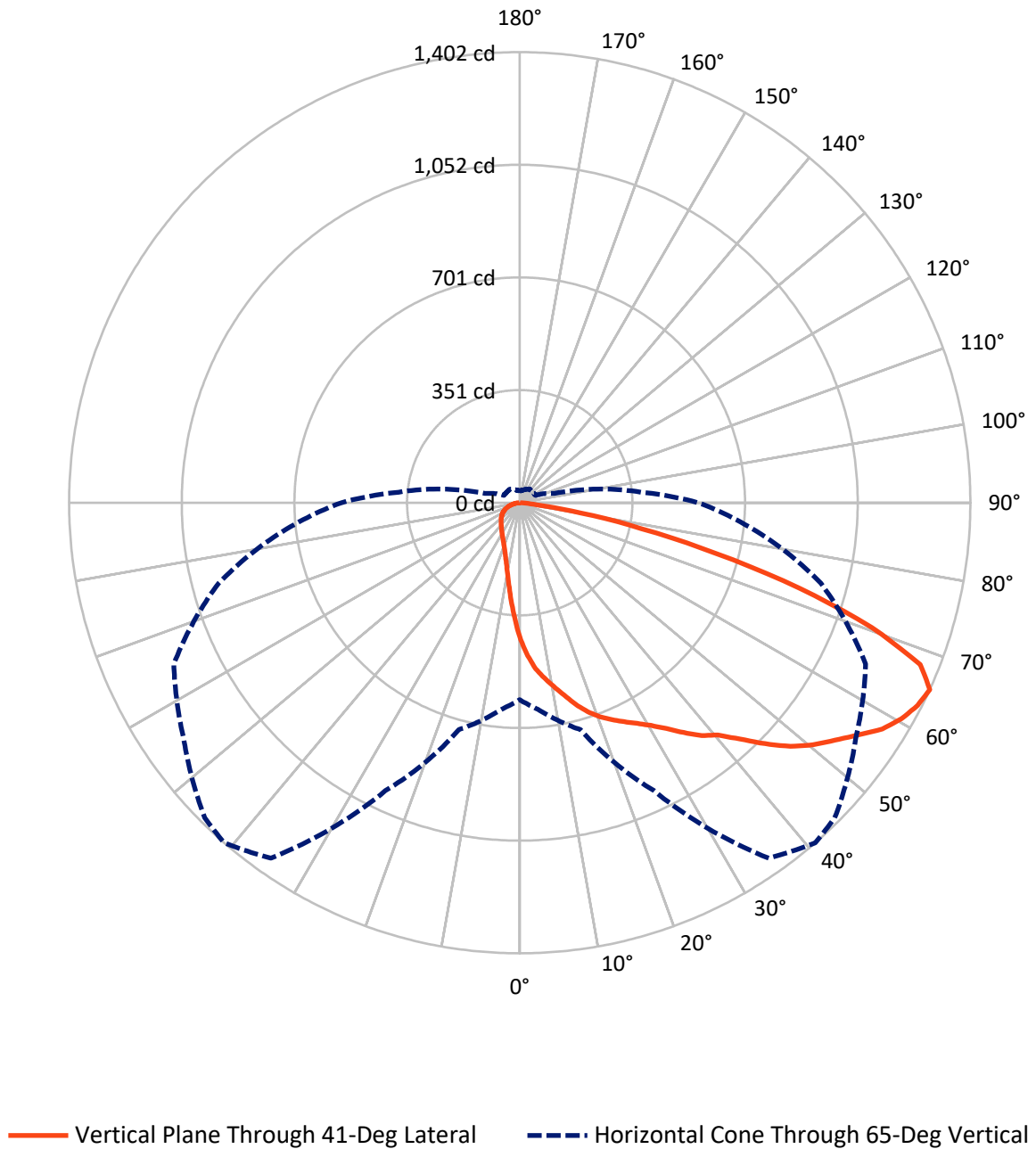


Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Short - N/A

REPORT NUMBER: P798664

CATALOG NUMBER: ARCH1-20-750-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798664

CATALOG NUMBER: ARCH1-20-750-U-T4W-HSS

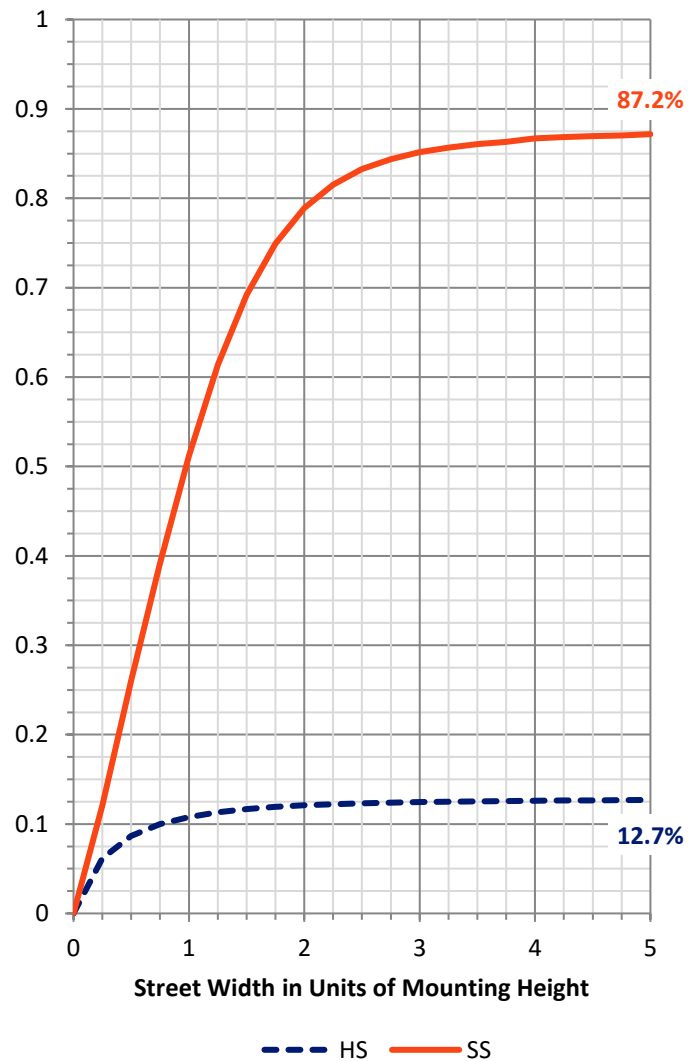
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	322.1	0.0	322.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2186.9	0.0	2186.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	2509.0	0.0	2509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.6
10°-20°	119.4	4.8
20°-30°	205.5	8.2
30°-40°	311.7	12.4
40°-50°	456.6	18.2
50°-60°	576.6	23.0
60°-70°	540.6	21.5
70°-80°	241.0	9.6
80°-90°	17.8	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°	2509.0	100.0
0°-180°	2509.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798664

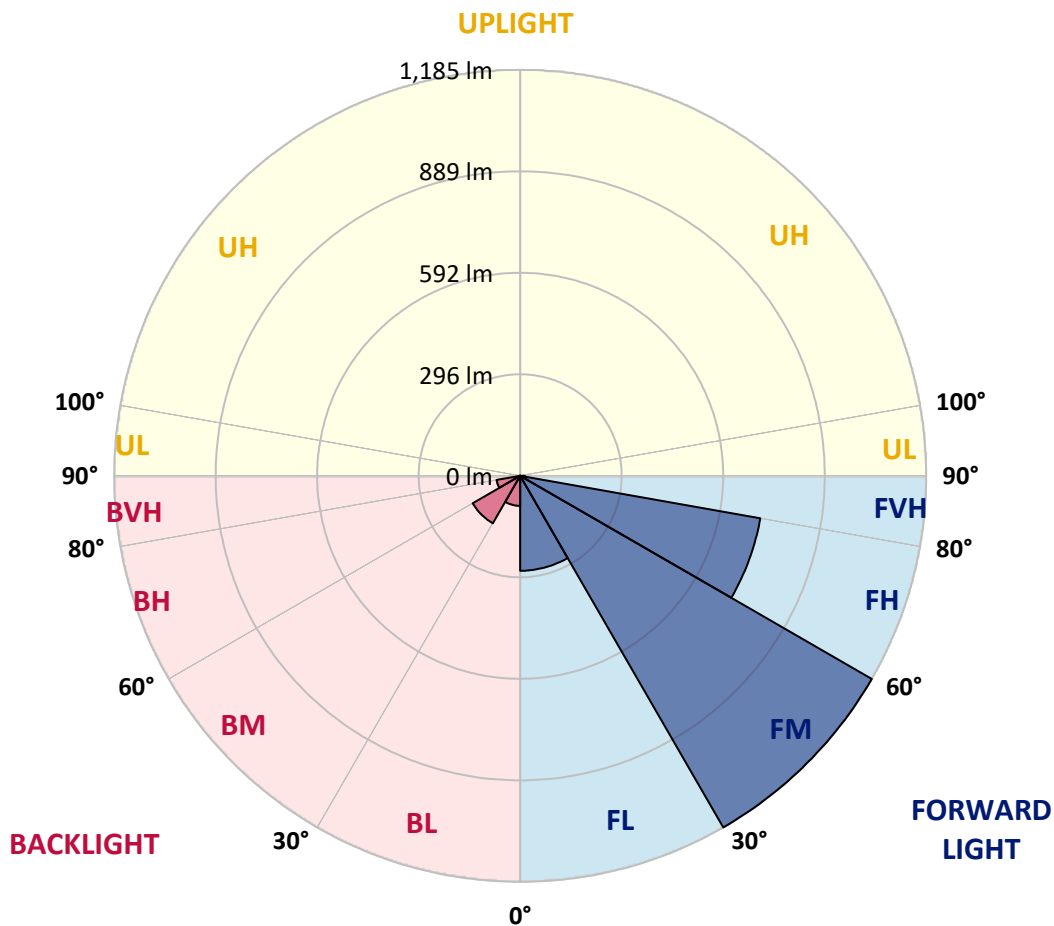
CATALOG NUMBER: ARCH1-20-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.1	11.0			
FM	(30°-60°)	1184.8	47.2			
FH	(60°-80°)	711.6	28.4			G1/1800
FVH	(80°-90°)	13.3	0.5			G1/100
BL	(0°-30°)	87.7	3.5	B0/110		
BM	(30°-60°)	159.9	6.4	B0/220		
BH	(60°-80°)	70.0	2.8	B0/110		G0/110
BVH	(80°-90°)	4.5	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



REPORT NUMBER: P798664

CATALOG NUMBER: ARCH1-20-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
2.5°	493.1	491.5	490.5	484.7	484.7	476.7	477.3	469.8	460.9	446.6	431.2
5°	539.7	537.6	534.9	529.1	527.0	519.1	518.0	507.4	492.1	467.2	439.7
7.5°	580.4	578.3	574.6	566.1	560.3	550.8	548.2	534.4	517.5	486.8	448.2
10°	617.5	615.9	611.1	600.5	592.6	581.0	576.2	557.7	536.5	502.7	455.0
12.5°	655.0	652.9	646.6	637.6	628.1	614.3	608.5	584.7	557.7	520.1	465.1
15°	690.0	686.8	682.0	672.5	664.0	650.8	644.5	616.4	583.6	539.7	478.3
17.5°	712.7	710.1	705.8	700.5	693.7	683.6	677.3	649.7	609.5	558.7	492.1
20°	726.5	725.4	723.8	720.6	717.5	710.6	705.8	679.9	637.6	577.3	505.3
22.5°	737.0	736.0	735.5	735.5	736.0	733.3	730.2	707.9	664.6	596.8	517.5
25°	753.5	752.9	751.9	750.8	754.5	755.0	754.0	738.6	698.4	622.8	532.8
27.5°	776.2	774.6	772.5	771.4	775.1	777.8	779.9	769.3	734.4	649.2	550.3
30°	811.1	806.4	801.1	797.4	800.0	804.2	809.0	802.7	771.4	682.0	568.3
32.5°	852.4	846.6	834.4	827.5	834.4	837.6	841.3	838.1	810.1	717.5	586.3
35°	902.7	895.8	883.1	873.0	885.2	878.3	876.7	873.6	846.6	752.4	606.4
37.5°	986.3	976.2	956.1	933.9	933.9	919.1	913.2	903.7	879.4	783.6	625.9
40°	1083.1	1069.9	1043.9	1011.1	981.0	950.3	946.6	939.7	918.0	819.6	648.2
42.5°	1189.4	1164.0	1128.1	1088.4	1039.7	1004.8	996.3	976.7	955.6	856.1	670.4
45°	1307.4	1254.5	1202.1	1182.0	1101.6	1069.9	1054.0	1018.5	994.7	894.2	693.7
47.5°	1326.5	1285.2	1250.3	1247.1	1159.3	1132.8	1114.8	1064.0	1037.1	934.9	718.0
50°	1315.9	1291.0	1294.7	1282.0	1201.6	1184.1	1170.4	1112.7	1078.9	974.1	740.2
52.5°	1271.5	1285.2	1306.4	1283.1	1241.8	1227.5	1220.7	1165.1	1118.0	1010.1	760.3
55°	1218.5	1228.1	1273.6	1302.1	1288.4	1275.7	1269.3	1225.9	1156.6	1040.2	778.8
57.5°	1141.3	1137.1	1187.3	1299.0	1337.1	1329.7	1322.8	1285.7	1192.6	1061.9	790.5
60°	1025.4	1016.4	1079.9	1235.5	1352.9	1364.6	1361.4	1325.4	1220.1	1061.4	785.7
62.5°	824.9	847.1	934.9	1131.8	1359.8	1389.4	1383.6	1328.6	1229.1	1030.7	755.6
65°	613.2	645.0	731.2	988.9	1350.3	1402.1	1386.3	1276.7	1187.3	969.9	689.4
67.5°	441.8	469.8	532.8	813.8	1258.8	1343.9	1325.4	1192.1	1091.0	883.6	597.9
70°	302.1	322.2	365.1	592.6	1074.6	1161.9	1150.3	1065.6	939.2	781.0	485.7
72.5°	213.2	221.7	249.2	391.0	816.4	911.7	897.9	876.7	754.5	649.2	377.8
75°	159.8	165.1	179.9	252.9	550.8	631.8	619.1	631.2	563.5	491.5	275.1
77.5°	60.3	65.6	102.1	161.4	325.9	387.8	375.1	382.5	313.2	248.2	137.0
80°	16.4	17.5	33.9	76.7	148.2	193.1	175.7	150.8	116.4	114.3	72.5
82.5°	6.9	7.9	15.3	41.3	52.9	52.9	44.4	55.0	44.4	53.4	34.9
85°	2.6	3.2	3.7	10.6	6.9	7.4	7.9	10.6	9.0	11.1	7.9
87.5°	0.0	0.0	0.0	0.5	0.5	1.1	0.5	1.1	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P798664

CATALOG NUMBER: ARCH1-20-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
2.5°	424.9	419.1	410.6	396.8	382.5	374.6	364.6	363.0	352.4	351.3	347.1
5°	427.5	415.4	393.7	367.2	341.3	321.2	306.4	298.4	283.1	283.1	278.8
7.5°	429.6	410.6	375.7	336.5	301.1	274.1	254.0	245.5	231.7	230.7	227.5
10°	430.2	404.8	356.1	305.3	261.9	234.4	214.8	205.3	193.1	192.1	190.0
12.5°	434.4	401.6	338.6	278.3	233.9	204.2	185.2	177.3	167.7	166.7	164.6
15°	441.3	401.6	323.8	255.6	209.0	181.5	165.1	157.7	150.8	149.7	148.7
17.5°	448.2	400.5	309.0	234.4	188.4	163.5	149.2	143.4	138.1	137.6	136.5
20°	454.5	400.0	294.2	216.4	172.5	148.7	137.6	132.3	128.0	128.0	127.5
22.5°	460.9	398.9	279.9	199.5	158.7	137.6	128.0	122.2	119.0	119.0	118.5
25°	470.4	398.9	266.7	185.2	147.6	129.1	119.6	115.3	112.7	112.2	112.2
27.5°	481.5	402.1	255.0	172.5	138.1	120.6	113.2	109.0	105.8	104.8	105.3
30°	493.7	404.8	244.4	161.4	129.1	114.3	106.4	102.1	98.9	97.9	98.4
32.5°	505.8	407.9	234.9	151.3	120.1	108.5	100.5	95.8	92.6	92.1	92.1
35°	519.1	411.1	225.4	142.9	112.7	102.6	95.2	89.9	87.8	86.8	87.3
37.5°	532.3	416.4	216.4	134.9	107.4	97.4	90.5	85.2	83.6	83.1	83.1
40°	548.2	424.3	212.7	129.6	102.6	92.6	86.8	81.5	79.9	79.9	79.9
42.5°	561.4	430.7	209.5	123.8	98.9	88.4	83.1	78.8	77.8	77.2	77.8
45°	574.6	436.5	205.3	118.5	94.2	84.1	79.9	75.7	74.6	74.6	74.6
47.5°	587.8	439.7	199.5	113.2	89.9	80.4	76.7	73.0	72.0	72.0	72.0
50°	598.4	442.3	191.0	107.4	85.2	77.2	73.5	69.8	68.8	68.8	68.8
52.5°	609.0	442.9	182.0	100.5	80.4	73.5	70.4	66.7	65.6	65.1	65.1
55°	618.5	442.3	171.4	92.6	75.1	69.3	66.7	63.5	61.4	59.3	60.3
57.5°	625.4	441.8	159.3	84.7	69.8	65.1	64.0	59.8	55.6	50.3	51.3
60°	622.8	436.0	146.0	74.6	64.0	60.8	60.8	55.0	47.6	45.0	45.5
62.5°	605.8	419.6	132.3	64.0	58.2	56.6	56.1	49.7	43.9	41.3	41.8
65°	555.0	378.3	112.2	54.5	52.4	51.9	51.9	46.0	40.7	37.6	38.1
67.5°	477.8	317.5	91.5	46.0	46.6	47.6	47.6	42.3	37.0	33.9	34.4
70°	383.1	248.2	73.0	39.7	40.2	41.8	42.9	38.1	33.3	30.2	30.2
72.5°	288.4	188.4	58.7	33.3	36.0	36.0	37.6	33.9	29.1	25.9	26.5
75°	209.0	134.9	46.6	28.0	31.2	30.7	30.7	28.6	24.9	22.8	22.8
77.5°	98.9	70.9	37.0	20.1	24.3	23.8	24.3	22.8	21.2	19.0	19.6
80°	48.7	34.9	23.8	14.3	16.9	17.5	19.0	18.0	17.5	15.9	15.9
82.5°	23.3	13.8	11.1	10.1	11.6	12.2	13.2	13.2	13.8	12.7	12.7
85°	6.3	3.7	4.8	6.3	7.4	7.9	9.0	9.5	9.5	9.0	9.5
87.5°	1.6	1.6	2.1	3.2	3.7	4.2	4.8	4.8	2.1	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)