

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: P798644

Luminaire Tested: **ARCH1-20-740-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798644
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: ARCH1-20-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

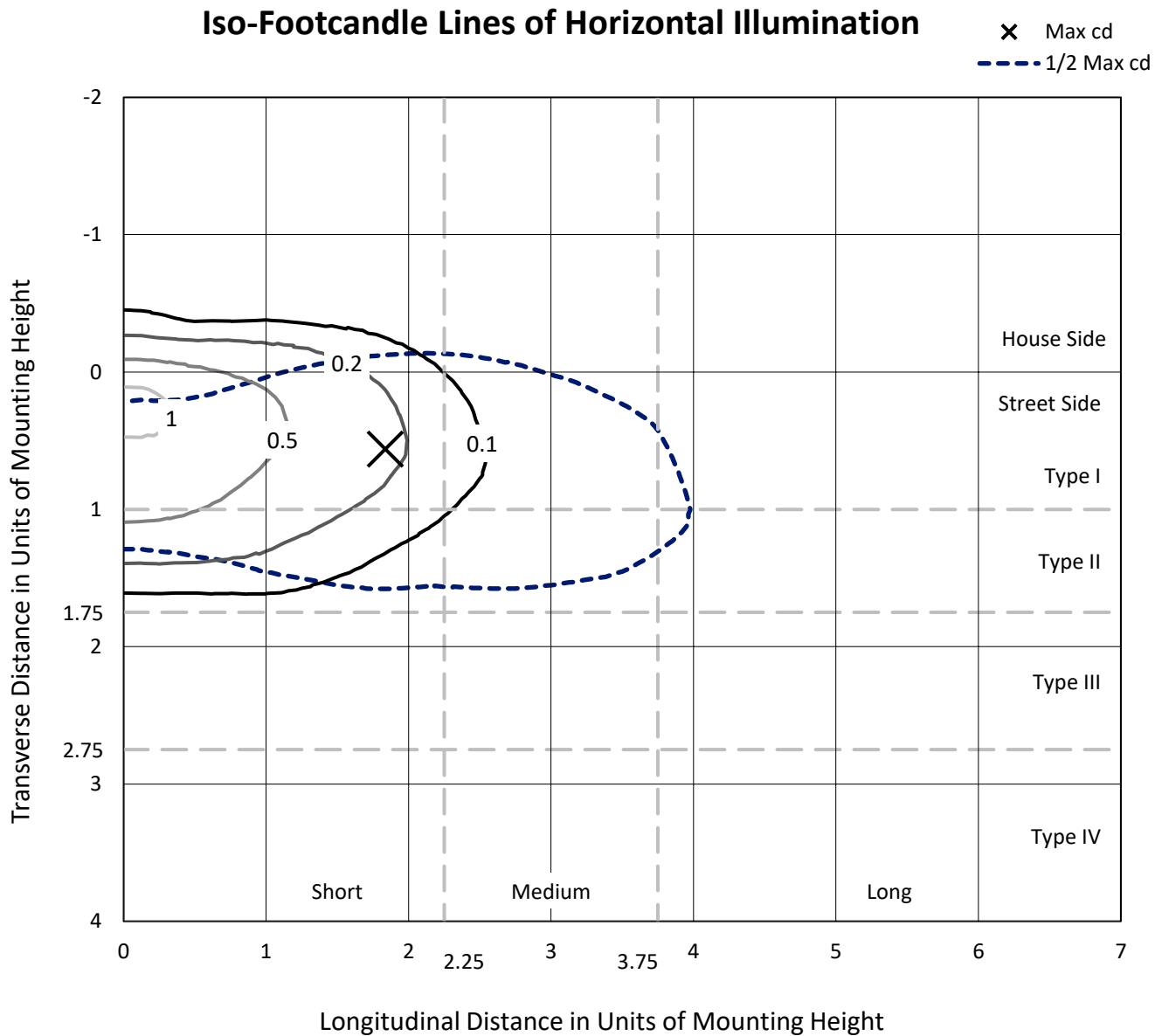
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428 lumens
Efficiency: N/A
Efficacy: 103.3 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



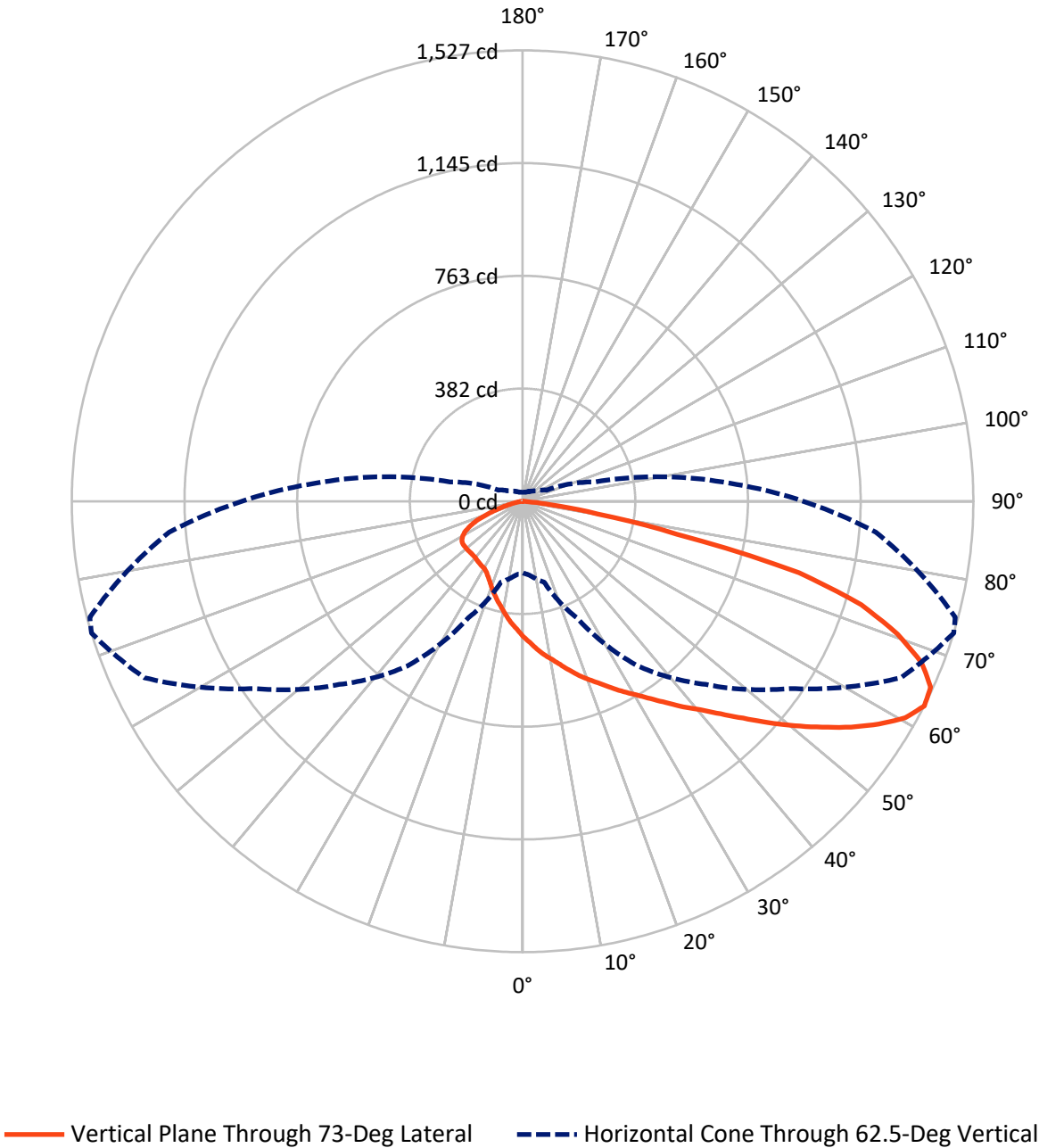
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Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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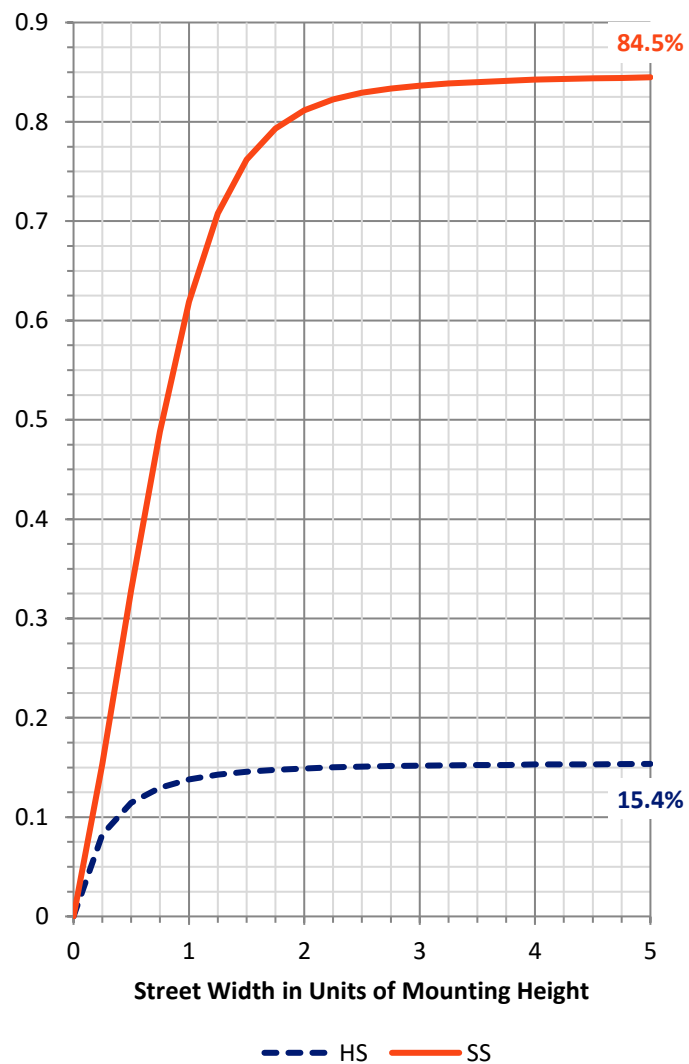
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.4	0.0	376.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2051.6	0.0	2051.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	2428.0	0.0	2428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	1.8
10°-20°	134.0	5.5
20°-30°	223.1	9.2
30°-40°	336.6	13.9
40°-50°	470.5	19.4
50°-60°	519.7	21.4
60°-70°	452.7	18.6
70°-80°	228.7	9.4
80°-90°	18.4	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°	2428.0	100.0
0°-180°	2428.0	100.0

Coefficient of Utilization



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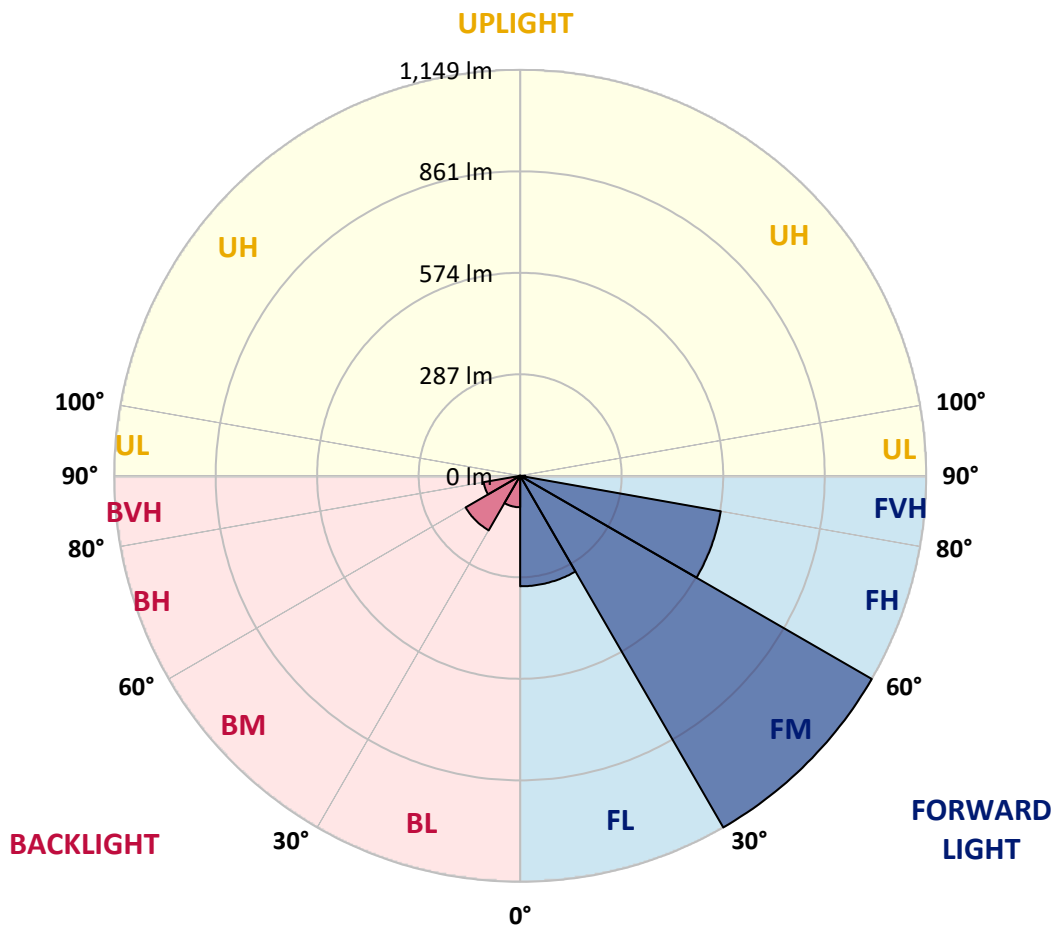
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.6	12.9			
FM	(30°-60°)	1148.5	47.3			
FH	(60°-80°)	576.3	23.7			G0/660
FVH	(80°-90°)	14.2	0.6			G1/100
BL	(0°-30°)	89.0	3.7	B0/110		
BM	(30°-60°)	178.2	7.3	B0/220		
BH	(60°-80°)	105.0	4.3	B0/110		G0/110
BVH	(80°-90°)	4.2	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°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	523.2	529.1	525.9	528.0	517.4	510.5	502.6	487.3	478.8	477.7	467.7
5°	599.9	606.3	601.0	599.4	580.9	565.0	547.0	520.1	502.1	498.9	476.7
7.5°	676.7	682.5	676.1	671.4	646.5	618.5	592.0	552.3	524.3	519.0	484.1
10°	730.6	735.9	731.2	726.4	700.5	671.9	634.3	582.5	544.4	535.9	488.8
12.5°	771.4	774.5	772.4	768.2	743.8	713.2	677.2	616.3	567.1	556.6	496.3
15°	804.7	810.0	807.3	804.2	780.9	750.2	715.8	651.8	593.6	580.4	507.4
17.5°	826.9	830.6	831.1	831.1	810.5	780.4	747.0	684.1	620.0	603.1	517.9
20°	837.0	841.2	843.8	848.1	831.1	805.2	771.4	711.6	644.9	625.9	528.0
22.5°	841.7	845.4	852.3	861.8	848.1	826.4	795.2	737.0	669.8	649.7	539.6
25°	845.4	850.2	860.2	878.2	868.7	850.2	823.2	766.1	699.4	678.8	556.6
27.5°	855.5	861.3	870.8	892.5	880.9	871.9	852.8	797.3	730.6	709.5	577.2
30°	890.4	895.2	894.6	908.4	894.1	891.5	878.2	827.4	760.8	739.6	601.5
32.5°	953.9	958.6	947.0	941.7	910.5	911.0	905.7	859.7	796.8	775.1	629.6
35°	1022.1	1027.4	1012.1	1003.1	950.7	935.4	938.0	899.9	837.0	815.3	664.5
37.5°	1083.0	1089.3	1076.1	1062.9	1010.0	974.5	974.0	944.9	883.0	860.8	703.1
40°	1116.3	1123.7	1131.6	1124.2	1068.7	1029.5	1012.6	990.9	928.5	905.7	744.9
42.5°	1132.2	1152.8	1167.1	1162.3	1116.8	1077.2	1057.0	1039.1	984.0	961.8	794.6
45°	1087.7	1088.3	1118.4	1144.3	1135.9	1109.4	1105.7	1093.0	1047.5	1026.4	850.7
47.5°	1032.2	1027.9	1049.1	1095.1	1118.9	1125.8	1147.5	1152.8	1120.0	1098.8	907.9
50°	898.9	901.5	970.3	1036.4	1083.0	1127.4	1177.1	1214.2	1194.6	1174.5	968.2
52.5°	731.2	737.5	816.3	961.8	1035.4	1111.5	1194.6	1275.5	1270.8	1251.7	1028.5
55°	586.2	596.2	679.8	837.5	974.5	1076.1	1202.0	1331.6	1349.6	1332.2	1087.7
57.5°	448.1	458.7	529.1	690.9	896.7	1018.4	1196.7	1380.8	1423.2	1412.0	1142.2
60°	337.5	348.1	393.1	560.3	799.4	953.9	1170.3	1413.1	1489.3	1477.6	1181.9
62.5°	241.8	250.2	283.6	435.9	680.9	877.2	1105.2	1413.6	1526.8	1517.3	1201.0
65°	174.1	174.1	201.0	311.1	569.8	785.1	1006.8	1348.6	1518.9	1516.3	1187.7
67.5°	125.4	126.4	148.1	217.4	454.5	673.5	879.3	1232.7	1457.5	1470.8	1140.1
70°	88.9	91.5	101.6	151.8	343.4	531.7	742.8	1080.9	1347.0	1370.2	1048.1
72.5°	68.8	70.4	77.2	105.8	250.8	395.2	592.0	911.6	1199.4	1225.8	922.7
75°	52.9	54.5	59.8	77.8	179.9	277.2	420.6	707.3	967.1	1014.2	741.2
77.5°	38.6	40.7	44.4	56.6	104.8	176.2	255.0	397.8	533.8	556.0	388.3
80°	18.0	20.6	25.9	36.5	56.6	83.1	90.5	153.4	256.6	268.2	210.6
82.5°	10.1	12.7	14.8	22.2	28.6	29.6	30.7	38.6	96.8	106.9	88.4
85°	4.8	6.3	6.9	9.5	9.5	8.5	10.1	7.4	15.9	19.0	18.5
87.5°	0.0	0.5	1.1	2.6	2.1	1.6	1.6	1.6	1.6	2.1	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7	459.7
2.5°	462.9	456.0	440.2	426.4	417.4	409.5	398.9	394.1	385.7	387.3	382.5
5°	465.6	452.9	424.8	398.9	379.9	362.9	344.4	333.8	322.2	321.1	317.4
7.5°	467.2	447.6	407.4	370.9	341.8	315.8	291.0	277.2	262.9	259.8	256.6
10°	465.6	439.6	389.4	341.8	303.1	270.9	242.8	225.4	210.6	206.9	203.7
12.5°	467.2	435.4	372.5	314.8	268.8	232.3	200.5	182.5	168.8	165.1	162.9
15°	470.9	432.8	358.2	290.5	238.1	197.3	166.1	150.8	139.7	136.0	134.9
17.5°	474.0	430.1	342.8	266.6	207.4	166.7	139.7	127.0	117.4	113.7	112.7
20°	478.3	426.4	327.5	243.9	180.4	142.3	118.5	107.4	100.0	97.3	96.8
22.5°	482.0	423.8	313.2	221.1	155.5	122.7	102.6	93.6	88.4	85.7	85.7
25°	491.5	424.8	301.0	200.0	137.0	107.4	90.5	83.6	79.4	77.8	77.8
27.5°	502.6	429.1	291.5	182.0	121.2	95.8	82.0	76.2	74.1	72.0	72.5
30°	518.5	437.5	285.2	167.2	109.5	86.8	75.1	70.9	68.8	68.2	68.2
32.5°	538.6	451.3	284.6	157.7	101.0	79.9	70.4	66.7	65.6	65.1	65.1
35°	562.4	463.5	281.5	153.4	95.8	75.1	66.7	64.0	63.5	63.5	63.5
37.5°	591.0	483.6	279.3	147.6	93.1	72.5	64.0	61.9	61.9	61.9	61.9
40°	620.6	500.0	276.2	142.3	92.1	70.9	62.4	59.8	59.8	59.8	59.8
42.5°	656.0	523.8	275.1	139.7	90.5	69.8	60.3	57.1	57.7	57.7	58.2
45°	698.9	550.7	274.6	137.0	89.9	68.8	58.2	54.5	55.0	54.5	54.5
47.5°	742.3	582.0	276.2	135.4	89.4	67.7	56.6	51.8	51.8	51.3	51.3
50°	787.8	610.5	277.2	133.9	88.4	65.6	54.0	49.7	48.7	47.6	48.1
52.5°	830.6	637.0	277.8	131.2	85.2	62.4	51.8	47.1	45.5	43.9	44.4
55°	873.5	662.4	278.8	128.0	80.9	59.3	49.2	44.4	42.3	40.2	40.2
57.5°	912.1	684.6	276.2	120.1	76.2	56.1	46.6	41.3	38.1	36.0	36.0
60°	938.5	700.5	268.2	108.5	69.8	52.4	43.9	38.1	34.4	32.8	32.8
62.5°	951.2	703.1	253.9	89.4	61.9	48.7	40.7	34.9	31.7	30.7	30.7
65°	939.1	691.5	231.7	67.2	53.4	44.4	37.6	32.3	29.1	26.5	26.5
67.5°	896.7	658.7	201.0	50.8	45.5	40.2	34.4	29.6	25.9	23.8	23.8
70°	811.6	590.4	155.5	40.7	38.6	34.9	31.2	26.5	23.3	20.6	20.6
72.5°	699.9	500.5	109.5	32.8	32.8	29.6	26.5	23.3	20.1	18.0	18.0
75°	537.0	370.3	73.5	26.5	27.0	24.9	21.7	19.0	16.9	15.3	15.3
77.5°	293.1	183.1	45.0	19.6	20.1	19.0	16.9	15.3	14.3	12.7	12.7
80°	142.3	80.4	25.9	13.8	14.3	13.8	12.7	11.1	11.1	10.1	10.1
82.5°	59.8	30.2	13.8	9.5	9.5	8.5	7.9	7.9	7.9	7.4	7.4
85°	14.8	5.8	5.8	5.3	5.3	5.3	4.8	4.8	4.8	3.7	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.6	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)