

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: P798724

Luminaire Tested: **ARCH1-30-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798724
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: ARCH1-30-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA 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: 2935 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

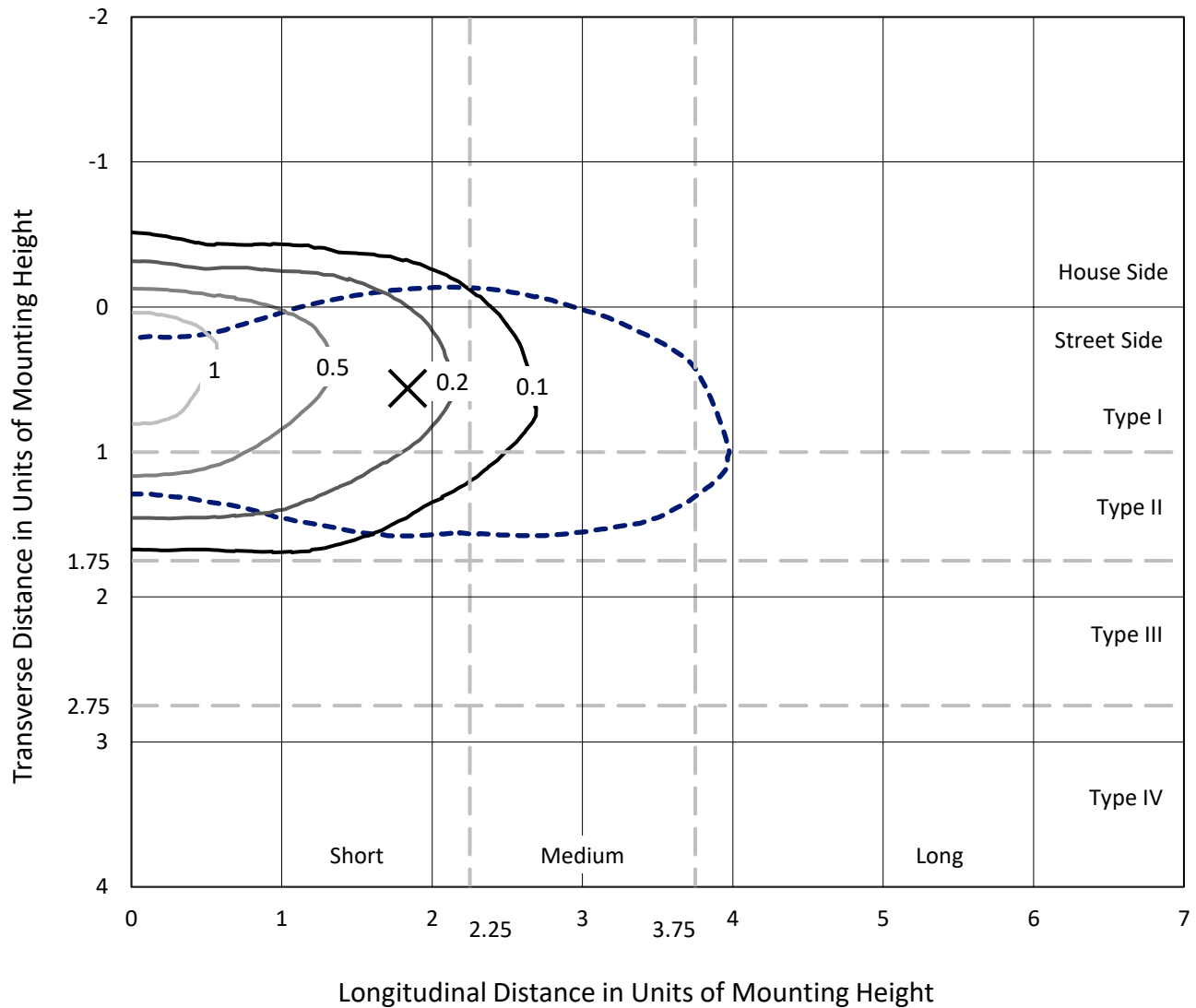


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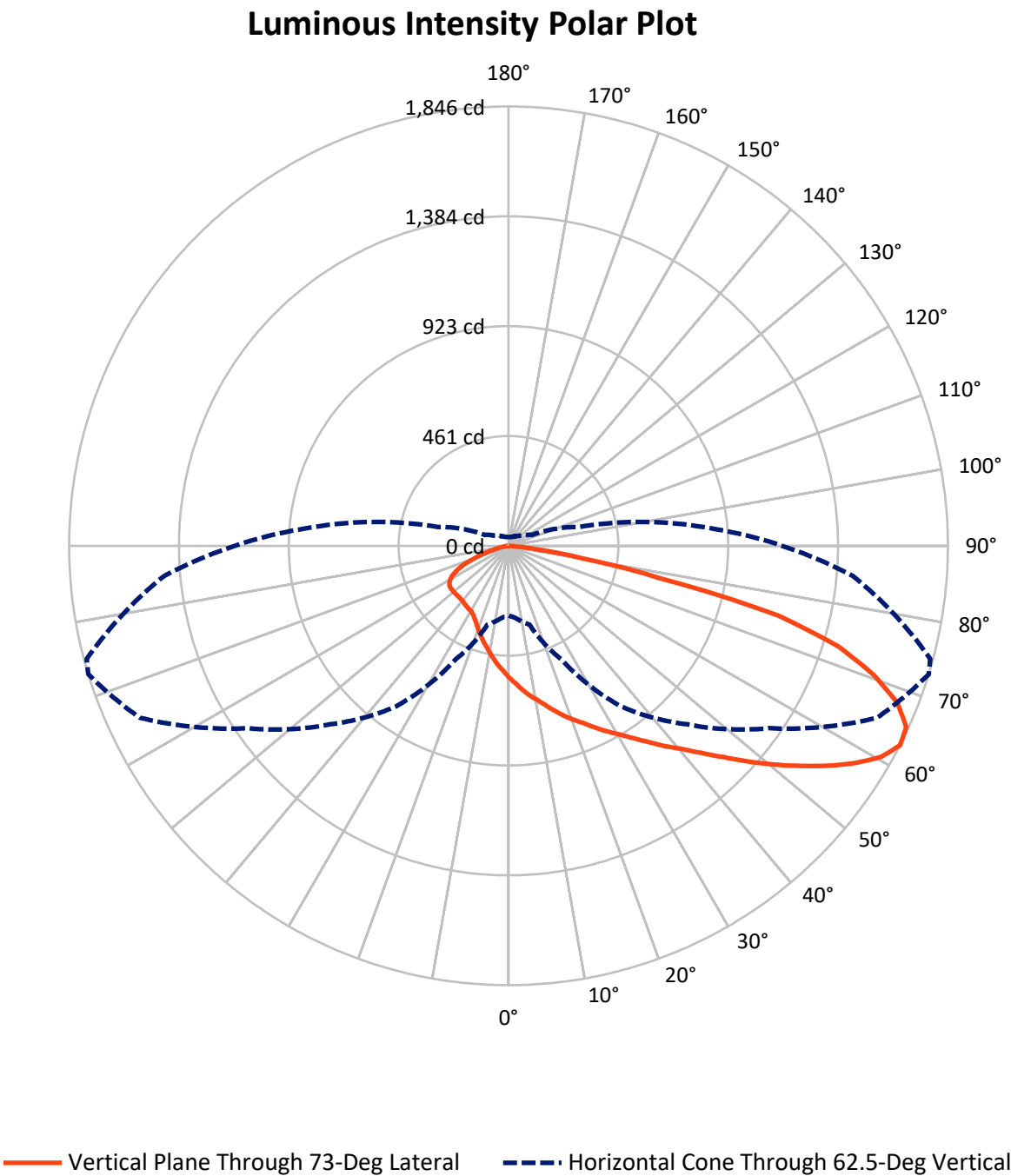
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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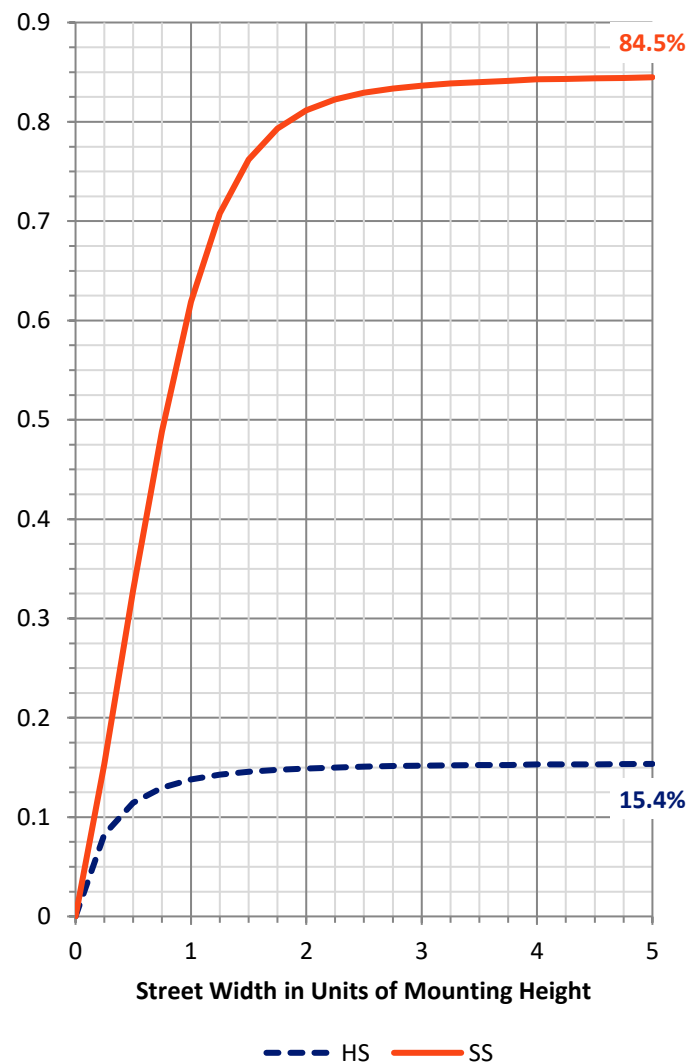
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.0	0.0	455.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	2480.0	0.0	2480.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	2935.0	0.0	2935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.8
10°-20°	162.0	5.5
20°-30°	269.7	9.2
30°-40°	406.9	13.9
40°-50°	568.7	19.4
50°-60°	628.2	21.4
60°-70°	547.2	18.6
70°-80°	276.4	9.4
80°-90°	22.2	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°	2935.0	100.0
0°-180°	2935.0	100.0

Coefficient of Utilization



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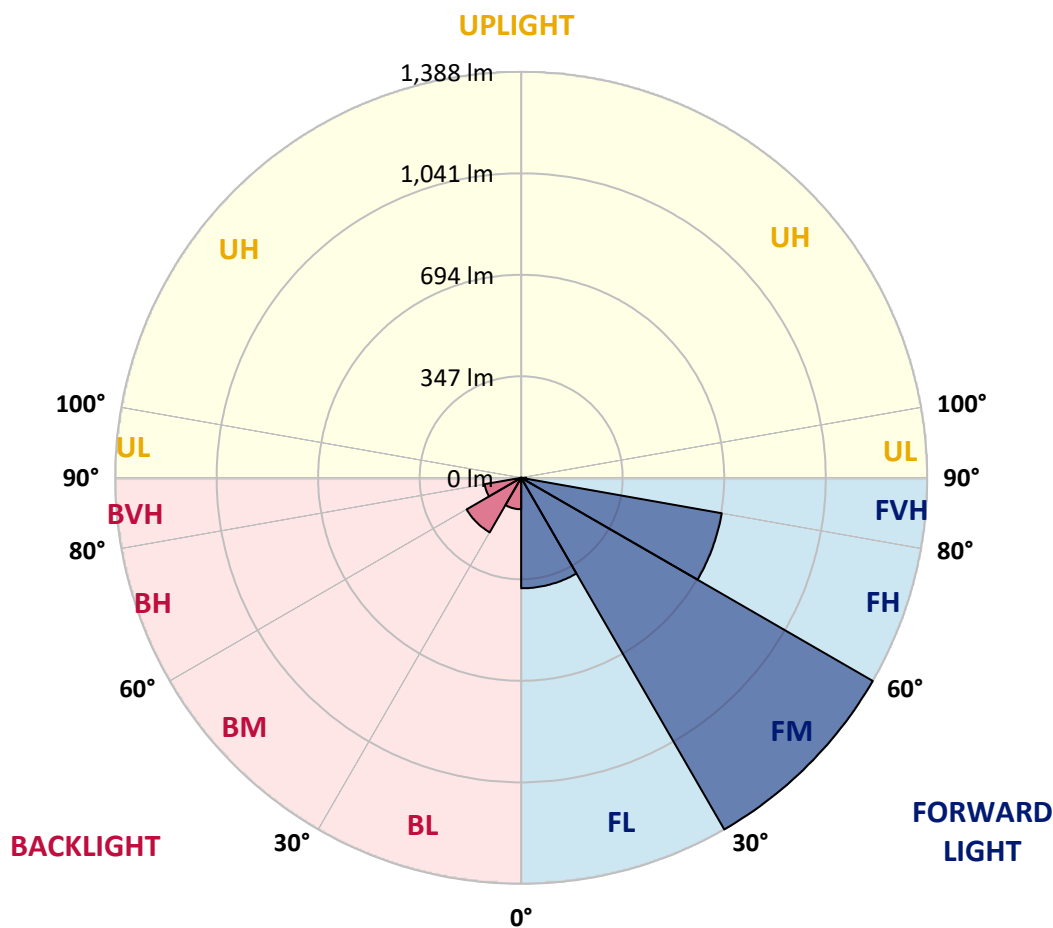
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.8	12.9			
FM	(30°-60°)	1388.4	47.3			
FH	(60°-80°)	696.7	23.7			G1/1800
FVH	(80°-90°)	17.2	0.6			G1/100
BL	(0°-30°)	107.5	3.7	B0/110		
BM	(30°-60°)	215.4	7.3	B0/220		
BH	(60°-80°)	127.0	4.3	B1/500		G1/500
BVH	(80°-90°)	5.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	632.5	639.5	635.7	638.2	625.5	617.1	607.6	589.0	578.8	577.5	565.3
5°	725.2	732.9	726.5	724.6	702.2	683.0	661.3	628.7	606.9	603.1	576.2
7.5°	818.0	825.0	817.3	811.6	781.5	747.6	715.6	667.7	633.8	627.4	585.2
10°	883.2	889.6	883.8	878.1	846.7	812.2	766.8	704.1	658.1	647.8	590.9
12.5°	932.4	936.3	933.7	928.6	899.2	862.1	818.6	745.0	685.6	672.8	599.9
15°	972.7	979.1	975.9	972.1	943.9	906.8	865.3	787.9	717.5	701.6	613.3
17.5°	999.6	1004.1	1004.7	1004.7	979.8	943.3	903.0	826.9	749.5	729.1	626.1
20°	1011.7	1016.8	1020.0	1025.2	1004.7	973.4	932.4	860.2	779.6	756.6	638.2
22.5°	1017.5	1022.0	1030.3	1041.8	1025.2	998.9	961.2	890.9	809.6	785.3	652.3
25°	1022.0	1027.7	1039.9	1061.6	1050.1	1027.7	995.1	926.0	845.5	820.5	672.8
27.5°	1034.1	1041.1	1052.7	1078.9	1064.8	1053.9	1030.9	963.8	883.2	857.6	697.7
30°	1076.3	1082.1	1081.4	1098.1	1080.8	1077.6	1061.6	1000.2	919.6	894.1	727.1
32.5°	1153.1	1158.8	1144.8	1138.4	1100.6	1101.3	1094.9	1039.2	963.1	936.9	761.0
35°	1235.6	1242.0	1223.4	1212.5	1149.2	1130.7	1133.9	1087.8	1011.7	985.5	803.2
37.5°	1309.1	1316.8	1300.8	1284.8	1220.9	1178.0	1177.4	1142.2	1067.4	1040.5	849.9
40°	1349.4	1358.4	1367.9	1359.0	1291.8	1244.5	1224.1	1197.8	1122.4	1094.9	900.5
42.5°	1368.6	1393.5	1410.8	1405.0	1350.0	1302.1	1277.8	1256.0	1189.5	1162.7	960.6
45°	1314.9	1315.5	1352.0	1383.3	1373.1	1341.1	1336.6	1321.3	1266.3	1240.7	1028.4
47.5°	1247.7	1242.6	1268.2	1323.8	1352.6	1360.9	1387.1	1393.5	1353.9	1328.3	1097.4
50°	1086.6	1089.8	1172.9	1252.8	1309.1	1362.8	1422.9	1467.7	1444.1	1419.7	1170.3
52.5°	883.8	891.5	986.8	1162.7	1251.6	1343.6	1444.1	1541.9	1536.1	1513.1	1243.2
55°	708.6	720.7	821.8	1012.4	1178.0	1300.8	1453.0	1609.7	1631.4	1610.3	1314.9
57.5°	541.7	554.5	639.5	835.2	1084.0	1231.1	1446.6	1669.2	1720.3	1706.9	1380.7
60°	408.0	420.8	475.2	677.3	966.3	1153.1	1414.6	1708.2	1800.3	1786.2	1428.7
62.5°	292.3	302.5	342.8	527.0	823.1	1060.3	1336.0	1708.8	1845.7	1834.2	1451.7
65°	210.4	210.4	243.0	376.0	688.8	949.1	1217.0	1630.2	1836.1	1832.9	1435.7
67.5°	151.6	152.8	179.1	262.8	549.4	814.1	1062.9	1490.1	1761.9	1777.9	1378.2
70°	107.4	110.6	122.8	183.5	415.1	642.7	897.9	1306.6	1628.2	1656.4	1266.9
72.5°	83.1	85.1	93.4	127.9	303.1	477.7	715.6	1101.9	1449.8	1481.8	1115.3
75°	64.0	65.9	72.3	94.0	217.4	335.1	508.4	855.0	1169.1	1226.0	896.0
77.5°	46.7	49.2	53.7	68.4	126.6	213.0	308.3	480.9	645.3	672.1	469.4
80°	21.7	24.9	31.3	44.1	68.4	100.4	109.4	185.5	310.2	324.2	254.5
82.5°	12.2	15.3	17.9	26.9	34.5	35.8	37.1	46.7	117.0	129.2	106.8
85°	5.8	7.7	8.3	11.5	11.5	10.2	12.2	9.0	19.2	23.0	22.4
87.5°	0.0	0.6	1.3	3.2	2.6	1.9	1.9	1.9	1.9	2.6	1.9
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°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	559.6	551.3	532.1	515.5	504.6	495.0	482.2	476.4	466.2	468.1	462.4
5°	562.8	547.4	513.5	482.2	459.2	438.7	416.3	403.5	389.5	388.2	383.7
7.5°	564.7	541.0	492.4	448.3	413.1	381.8	351.7	335.1	317.8	314.0	310.2
10°	562.8	531.4	470.7	413.1	366.4	327.4	293.5	272.4	254.5	250.1	246.2
12.5°	564.7	526.3	450.2	380.5	324.9	280.8	242.4	220.6	204.0	199.5	197.0
15°	569.2	523.1	433.0	351.1	287.8	238.5	200.8	182.3	168.8	164.4	163.1
17.5°	573.0	519.9	414.4	322.3	250.7	201.5	168.8	153.5	142.0	137.5	136.2
20°	578.1	515.5	395.9	294.8	218.1	172.0	143.3	129.8	120.9	117.7	117.0
22.5°	582.6	512.3	378.6	267.3	188.0	148.4	124.1	113.2	106.8	103.6	103.6
25°	594.1	513.5	363.9	241.7	165.6	129.8	109.4	101.0	95.9	94.0	94.0
27.5°	607.6	518.7	352.4	220.0	146.5	115.8	99.1	92.1	89.5	87.0	87.6
30°	626.7	528.9	344.7	202.1	132.4	104.9	90.8	85.7	83.1	82.5	82.5
32.5°	651.0	545.5	344.1	190.6	122.1	96.6	85.1	80.6	79.3	78.7	78.7
35°	679.8	560.2	340.2	185.5	115.8	90.8	80.6	77.4	76.7	76.7	76.7
37.5°	714.4	584.5	337.7	178.4	112.6	87.6	77.4	74.8	74.8	74.8	74.8
40°	750.2	604.4	333.8	172.0	111.3	85.7	75.5	72.3	72.3	72.3	72.3
42.5°	793.0	633.1	332.6	168.8	109.4	84.4	72.9	69.1	69.7	69.7	70.3
45°	844.8	665.7	331.9	165.6	108.7	83.1	70.3	65.9	66.5	65.9	65.9
47.5°	897.3	703.5	333.8	163.7	108.1	81.9	68.4	62.7	62.7	62.0	62.0
50°	952.3	738.0	335.1	161.8	106.8	79.3	65.2	60.1	58.8	57.6	58.2
52.5°	1004.1	770.0	335.8	158.6	103.0	75.5	62.7	56.9	55.0	53.1	53.7
55°	1055.9	800.7	337.0	154.8	97.8	71.6	59.5	53.7	51.2	48.6	48.6
57.5°	1102.5	827.5	333.8	145.2	92.1	67.8	56.3	49.9	46.0	43.5	43.5
60°	1134.5	846.7	324.2	131.1	84.4	63.3	53.1	46.0	41.6	39.7	39.7
62.5°	1149.9	849.9	307.0	108.1	74.8	58.8	49.2	42.2	38.4	37.1	37.1
65°	1135.2	835.9	280.1	81.2	64.6	53.7	45.4	39.0	35.2	32.0	32.0
67.5°	1084.0	796.2	243.0	61.4	55.0	48.6	41.6	35.8	31.3	28.8	28.8
70°	981.0	713.7	188.0	49.2	46.7	42.2	37.7	32.0	28.1	24.9	24.9
72.5°	846.1	605.0	132.4	39.7	39.7	35.8	32.0	28.1	24.3	21.7	21.7
75°	649.1	447.7	88.9	32.0	32.6	30.1	26.2	23.0	20.5	18.5	18.5
77.5°	354.3	221.3	54.4	23.7	24.3	23.0	20.5	18.5	17.3	15.3	15.3
80°	172.0	97.2	31.3	16.6	17.3	16.6	15.3	13.4	13.4	12.2	12.2
82.5°	72.3	36.5	16.6	11.5	11.5	10.2	9.6	9.6	9.6	9.0	9.0
85°	17.9	7.0	7.0	6.4	6.4	6.4	5.8	5.8	5.8	4.5	5.1
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.9	0.6	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)