

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: P798594

Luminaire Tested: **ARCH1-20-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798594
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: ARCH1-20-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

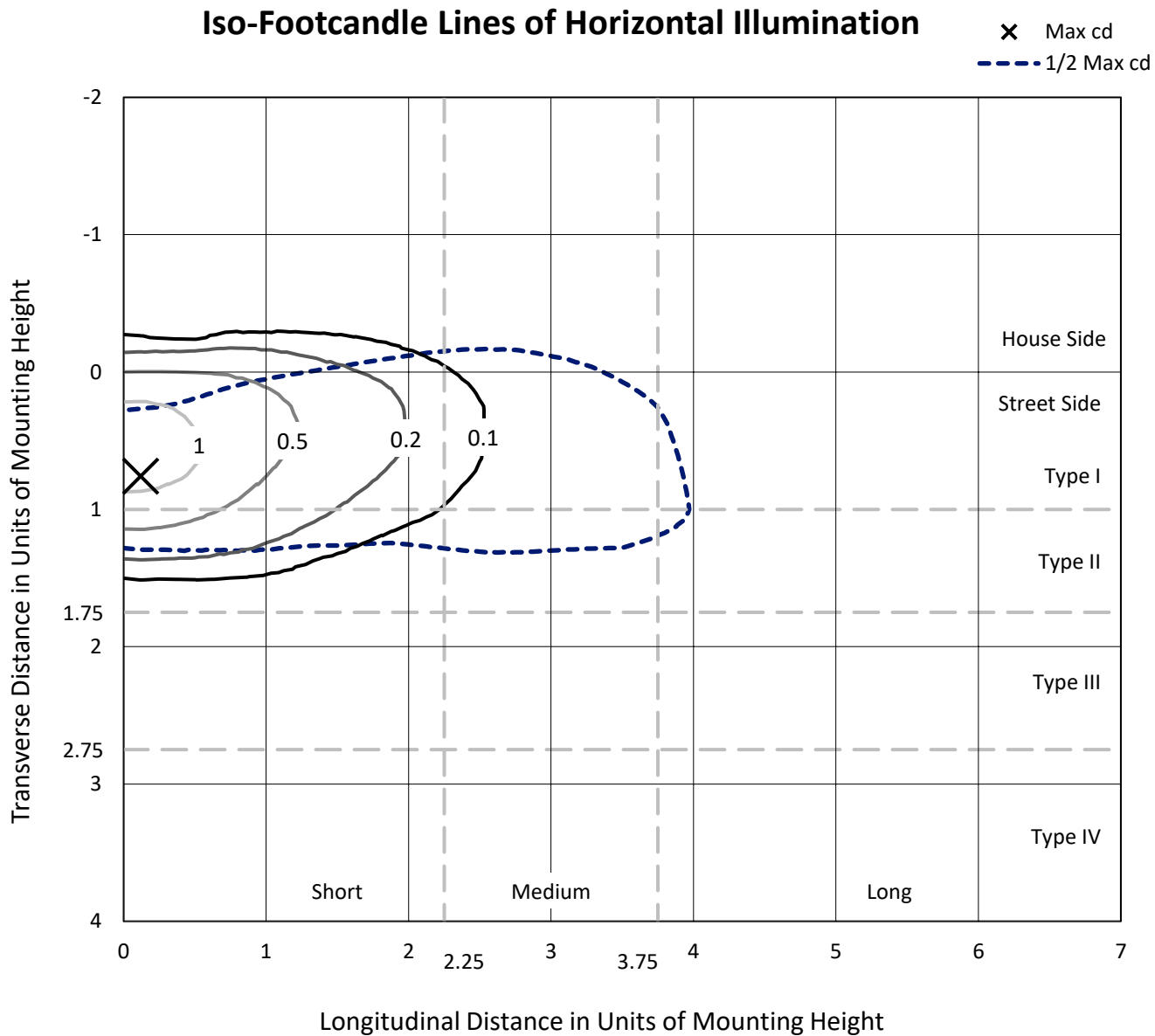
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2369 lumens
Efficiency: N/A
Efficacy: 100.8 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

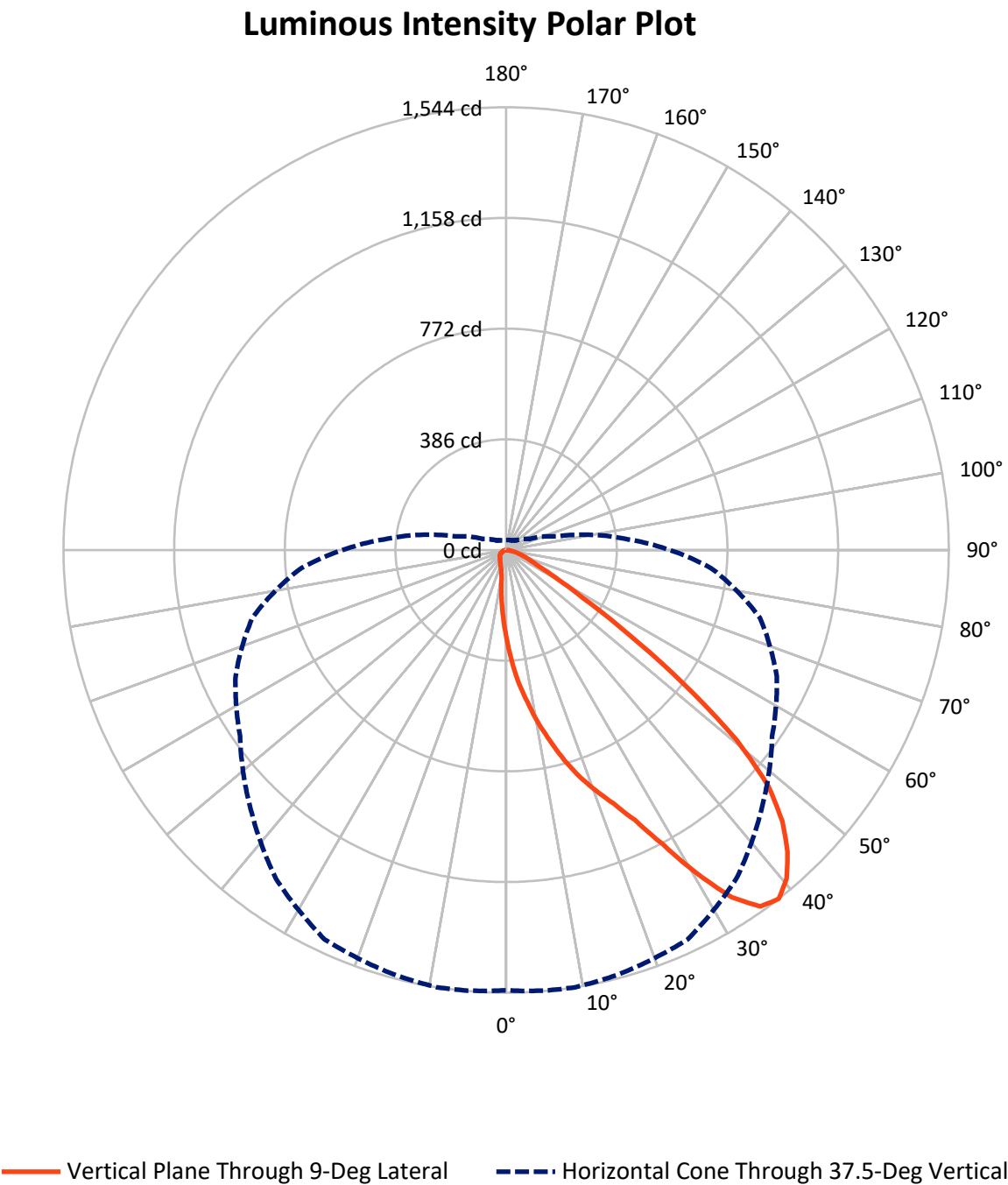


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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.1	0.0	288.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2080.9	0.0	2080.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	2369.0	0.0	2369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	1.3
10°-20°	109.4	4.6
20°-30°	224.8	9.5
30°-40°	397.3	16.8
40°-50°	527.8	22.3
50°-60°	500.6	21.1
60°-70°	381.9	16.1
70°-80°	185.2	7.8
80°-90°	10.4	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°	2369.0	100.0
0°-180°	2369.0	100.0

Coefficient of Utilization



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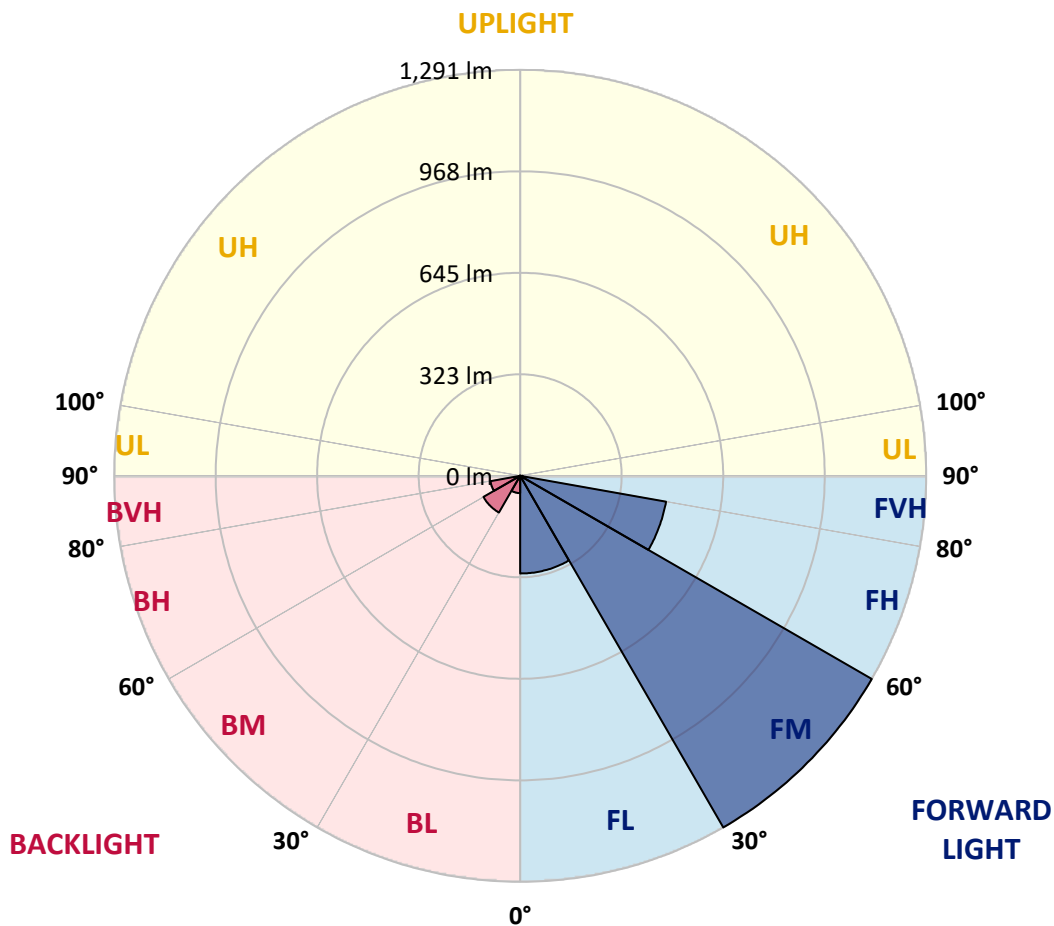
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	310.7	13.1			
FM	(30°-60°)	1291.0	54.5			
FH	(60°-80°)	470.9	19.9			G0/660
FVH	(80°-90°)	8.3	0.3			G0/10
BL	(0°-30°)	55.0	2.3	B0/110		
BM	(30°-60°)	134.8	5.7	B0/220		
BH	(60°-80°)	96.1	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°	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2
2.5°	388.0	381.2	389.0	388.0	381.2	376.9	363.2	358.9	342.8	331.1	320.9
5°	467.8	461.0	467.8	465.8	456.1	445.4	423.0	408.5	379.8	354.5	331.6
7.5°	533.9	533.9	536.8	537.3	525.6	509.1	481.4	459.5	419.2	380.3	343.8
10°	605.4	605.9	612.2	607.8	592.3	569.9	534.9	507.2	458.5	407.5	355.5
12.5°	681.7	682.2	684.2	682.2	663.7	635.1	592.8	556.3	500.4	438.6	371.5
15°	758.1	758.6	761.0	757.6	737.2	703.6	655.5	610.7	544.6	473.6	391.0
17.5°	829.6	830.5	832.5	828.1	806.7	766.8	717.7	663.7	591.8	511.1	412.8
20°	893.8	894.7	896.2	890.3	869.0	829.1	776.1	719.7	639.9	549.5	436.7
22.5°	958.4	959.4	961.8	954.0	930.2	884.5	832.5	774.1	691.0	591.8	464.4
25°	1041.1	1042.1	1044.0	1032.8	1000.2	946.8	891.8	832.0	746.4	639.4	498.4
27.5°	1162.2	1161.2	1161.2	1140.8	1084.9	1015.3	951.6	890.8	806.2	690.5	535.9
30°	1311.9	1309.5	1308.0	1280.3	1200.6	1092.6	1012.9	945.8	863.6	744.5	576.2
32.5°	1446.1	1446.1	1443.2	1414.1	1329.4	1196.7	1078.0	999.3	919.0	798.9	618.0
35°	1525.4	1528.8	1527.4	1505.5	1443.7	1308.5	1166.1	1063.5	977.4	855.8	668.1
37.5°	1536.1	1542.9	1544.4	1531.2	1498.7	1400.0	1263.8	1133.0	1041.6	917.1	716.8
40°	1492.8	1507.4	1507.4	1505.5	1493.8	1443.2	1346.0	1213.7	1107.7	980.8	765.9
42.5°	1426.2	1441.3	1439.3	1446.6	1443.7	1433.0	1392.2	1289.1	1173.8	1046.4	810.6
45°	1339.2	1354.7	1350.8	1364.0	1369.8	1381.5	1387.3	1341.6	1239.0	1117.9	860.7
47.5°	1199.6	1225.9	1231.7	1255.0	1279.4	1315.8	1343.5	1360.6	1299.8	1194.7	915.1
50°	993.4	1030.4	1042.1	1091.2	1157.8	1233.2	1277.9	1337.2	1342.6	1273.5	974.0
52.5°	711.4	754.2	772.2	852.9	990.0	1121.3	1202.0	1285.7	1359.1	1348.9	1037.7
55°	460.0	496.5	514.0	589.8	772.2	978.4	1112.6	1219.1	1349.9	1417.9	1110.6
57.5°	283.5	304.4	316.1	381.2	549.0	795.0	995.4	1157.8	1321.7	1477.8	1186.5
60°	191.1	203.3	209.1	239.7	373.0	594.2	834.4	1093.6	1284.7	1518.1	1255.5
62.5°	126.9	130.8	136.6	155.6	246.0	417.2	640.9	978.8	1257.0	1520.5	1306.6
65°	98.2	100.2	102.6	110.9	151.7	291.8	450.8	793.1	1215.7	1469.0	1322.6
67.5°	77.3	79.3	82.2	86.6	109.9	197.9	306.8	581.1	1131.0	1388.3	1296.4
70°	60.8	62.2	64.2	68.1	85.6	143.4	202.8	386.1	960.4	1311.5	1213.7
72.5°	48.1	49.6	51.5	55.4	69.5	105.0	139.1	240.7	740.6	1217.6	1054.7
75°	37.9	38.9	40.4	44.2	55.9	81.7	94.3	143.9	503.3	1046.0	821.8
77.5°	19.0	23.3	26.7	30.6	40.8	56.4	62.7	79.7	212.5	536.8	391.9
80°	11.2	13.6	14.6	17.0	26.7	34.0	34.0	32.1	67.1	206.2	160.0
82.5°	6.3	8.8	9.2	9.7	16.0	19.5	15.6	11.7	13.6	69.0	46.7
85°	1.9	2.9	3.4	3.9	5.3	5.8	5.3	4.9	3.9	6.8	4.4
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°	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2	313.2
2.5°	315.1	308.8	296.6	285.4	274.7	267.0	259.7	252.9	248.0	244.1	243.6
5°	319.5	306.8	283.5	261.6	241.7	225.1	211.0	199.9	191.6	185.8	185.3
7.5°	325.3	305.9	270.4	237.8	208.1	184.3	163.9	148.8	138.1	133.7	130.3
10°	330.2	304.9	257.2	214.0	175.1	144.9	120.6	105.5	97.7	94.8	93.4
12.5°	338.4	305.9	246.0	192.1	146.4	110.9	92.4	84.1	80.7	78.3	77.8
15°	350.6	310.2	235.4	170.7	117.2	89.5	78.8	73.4	70.0	69.5	69.0
17.5°	362.8	314.1	225.6	148.8	97.3	77.8	70.5	66.1	63.7	63.2	63.2
20°	376.9	319.0	214.9	127.9	83.2	70.0	64.2	60.8	57.9	57.4	57.4
22.5°	393.4	325.8	204.7	109.4	73.9	64.2	59.3	55.4	53.0	52.5	52.5
25°	415.8	336.0	196.5	95.8	67.6	59.3	54.9	51.5	49.6	48.6	48.6
27.5°	440.6	350.1	190.6	87.5	63.2	55.4	51.1	48.1	46.2	45.2	45.2
30°	468.3	365.7	186.7	84.1	60.8	52.0	48.1	45.2	42.8	42.3	42.3
32.5°	498.9	383.7	184.3	84.6	60.3	49.6	45.2	42.3	40.4	39.4	39.4
35°	532.9	403.6	182.8	87.5	61.3	47.7	42.8	39.9	37.9	37.0	37.0
37.5°	570.9	426.9	182.8	90.4	63.7	47.2	40.4	37.4	36.0	35.0	35.0
40°	606.4	451.7	184.8	93.8	66.1	47.2	38.4	36.0	34.0	33.1	33.1
42.5°	634.1	465.8	186.2	97.3	67.6	46.7	36.5	34.0	32.6	31.6	31.6
45°	665.7	480.9	183.3	98.7	67.6	45.7	35.0	32.6	31.1	30.1	30.1
47.5°	700.7	499.4	182.8	99.7	66.1	43.8	33.6	31.1	30.1	29.2	29.2
50°	736.2	519.8	183.8	99.2	64.2	40.8	31.6	30.1	28.7	27.7	27.7
52.5°	776.6	541.2	185.8	98.2	59.8	37.4	30.1	28.7	27.2	26.3	25.8
55°	821.3	564.6	189.6	96.3	54.0	34.0	28.7	27.2	25.3	24.3	23.8
57.5°	872.8	593.2	194.0	92.4	47.7	31.1	27.2	25.3	22.4	20.9	20.4
60°	922.0	625.8	198.9	83.2	41.3	28.2	25.8	22.9	19.9	19.0	18.5
62.5°	968.1	657.9	201.3	66.6	35.0	25.8	24.3	20.9	18.0	17.0	16.5
65°	997.8	692.9	196.0	45.2	28.7	23.8	22.4	19.5	16.5	15.1	15.1
67.5°	999.8	709.5	177.5	29.7	23.3	21.4	20.4	17.5	14.6	13.6	13.1
70°	950.6	684.7	135.7	23.3	19.5	18.5	18.5	15.6	12.6	11.7	11.2
72.5°	837.8	606.4	86.6	19.0	16.5	15.6	15.6	13.1	11.2	9.7	9.2
75°	661.3	467.8	46.2	15.6	13.6	13.1	12.2	10.7	9.2	8.3	7.8
77.5°	303.9	206.2	21.4	11.2	10.2	10.2	9.2	7.8	7.3	6.3	6.3
80°	120.1	70.0	10.7	7.3	6.8	6.8	6.8	5.3	5.3	4.4	3.9
82.5°	33.1	14.6	5.3	4.4	4.4	4.4	3.9	3.4	3.4	2.9	2.9
85°	3.4	2.4	2.4	2.4	2.4	1.9	1.9	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)