

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: P1210716

Luminaire Tested: **ARCH3-50-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6180 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.6
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

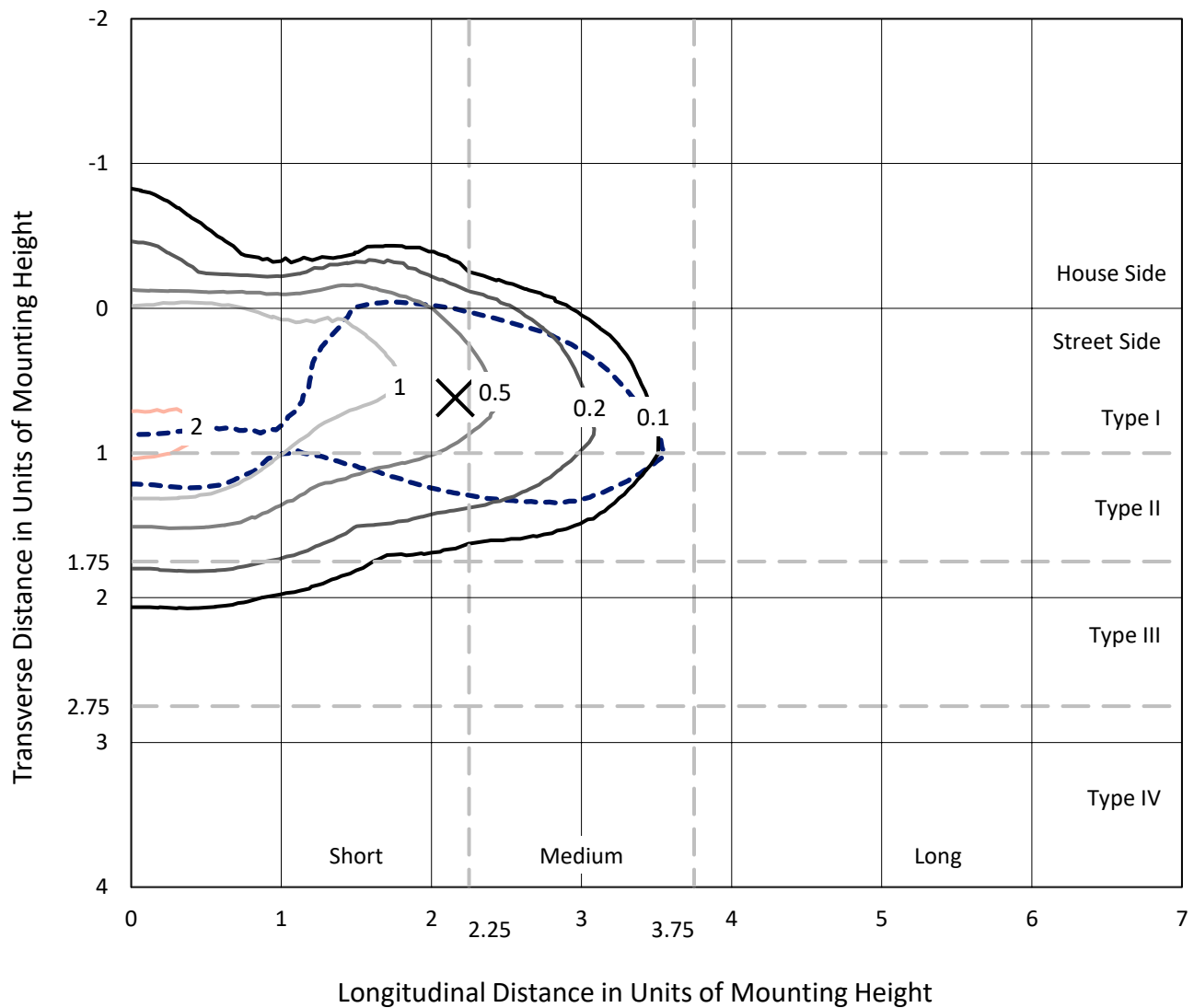


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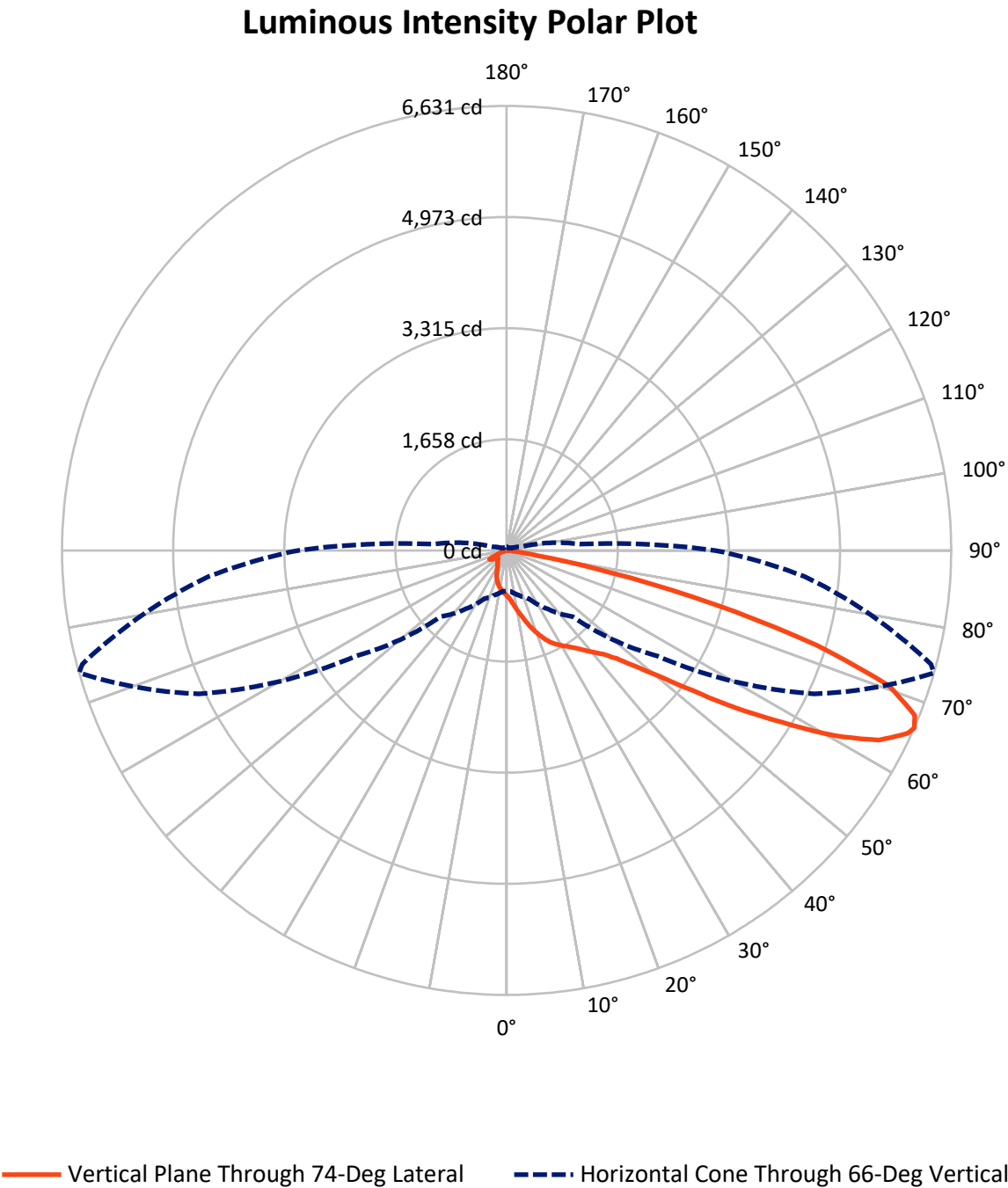
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.8	0.0	605.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5574.2	0.0	5574.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	6180.0	0.0	6180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.1
10°-20°	211.1	3.4
20°-30°	402.9	6.5
30°-40°	706.1	11.4
40°-50°	1210.8	19.6
50°-60°	1574.7	25.5
60°-70°	1425.5	23.1
70°-80°	550.0	8.9
80°-90°	33.1	0.5
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°	6180.0	100.0
0°-180°	6180.0	100.0

Coefficient of Utilization



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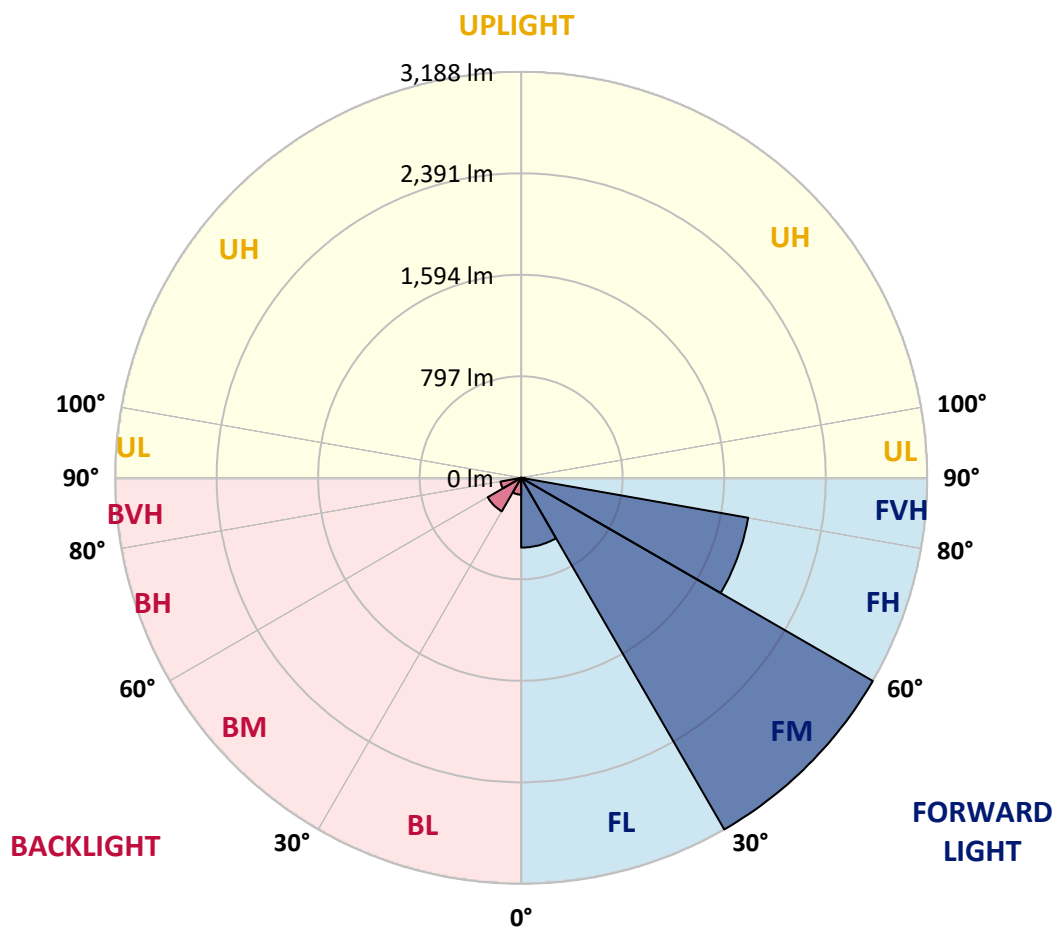
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.6	8.9			
FM	(30°-60°)	3188.0	51.6			
FH	(60°-80°)	1809.9	29.3			G2/5000
FVH	(80°-90°)	28.7	0.5			G1/100
BL	(0°-30°)	132.1	2.1	B1/500		
BM	(30°-60°)	303.6	4.9	B1/1000		
BH	(60°-80°)	165.6	2.7	B1/500		G1/500
BVH	(80°-90°)	4.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	810.0	803.3	791.1	790.0	780.0	767.8	746.7	724.5	709.0	706.8	687.9
5°	969.7	966.4	954.2	946.4	927.6	898.7	849.9	801.1	760.0	755.6	713.4
7.5°	1011.9	1014.1	1016.3	1024.1	1017.4	1004.1	967.5	898.7	834.4	824.4	751.2
10°	1018.6	1016.3	1016.3	1026.3	1045.2	1064.0	1059.6	1000.8	917.6	905.4	803.3
12.5°	1090.7	1094.0	1086.2	1081.8	1078.5	1088.5	1121.7	1096.2	1005.2	995.3	866.6
15°	1183.9	1182.8	1171.7	1171.7	1161.7	1145.0	1166.1	1185.0	1110.6	1098.4	938.7
17.5°	1251.6	1256.0	1254.9	1261.5	1258.2	1236.0	1224.9	1263.8	1219.4	1203.9	1020.8
20°	1305.9	1318.1	1322.6	1343.7	1353.6	1338.1	1309.3	1333.7	1323.7	1309.3	1104.0
22.5°	1363.6	1373.6	1381.4	1418.0	1445.7	1442.4	1405.8	1400.2	1424.6	1411.3	1186.1
25°	1421.3	1425.8	1449.1	1493.4	1537.8	1548.9	1511.2	1467.9	1515.6	1503.4	1259.3
27.5°	1484.6	1486.8	1514.5	1568.9	1631.0	1654.3	1624.4	1544.5	1585.5	1585.5	1325.9
30°	1600.0	1622.1	1633.2	1682.1	1736.4	1768.6	1733.1	1625.5	1647.7	1657.7	1395.8
32.5°	1848.5	1851.8	1848.5	1869.6	1880.7	1899.5	1858.5	1716.5	1710.9	1722.0	1464.6
35°	2228.0	2214.6	2179.1	2148.1	2083.7	2048.2	1995.0	1833.0	1788.6	1804.1	1532.3
37.5°	2688.4	2669.6	2588.6	2493.1	2355.6	2213.5	2147.0	1975.0	1887.3	1907.3	1605.5
40°	3127.8	3115.6	3019.1	2901.4	2666.2	2423.2	2282.3	2094.8	1997.2	2004.9	1679.8
42.5°	3489.5	3487.3	3406.3	3283.1	2981.3	2649.6	2442.1	2212.4	2112.6	2124.8	1757.5
45°	3763.6	3742.5	3682.6	3593.8	3286.5	2884.8	2635.2	2391.1	2297.9	2312.3	1874.0
47.5°	3763.6	3766.9	3805.7	3796.8	3499.5	3105.6	2846.0	2616.3	2571.9	2585.2	2066.0
50°	3457.3	3488.4	3661.5	3806.8	3610.4	3277.6	3073.4	2898.1	2943.6	2963.6	2401.0
52.5°	2851.5	2903.7	3204.4	3536.1	3528.3	3364.1	3308.6	3256.5	3460.7	3496.2	2895.9
55°	2166.9	2201.3	2593.0	3029.0	3171.1	3293.1	3513.9	3711.4	4145.2	4137.5	3398.5
57.5°	1618.8	1651.0	1988.3	2472.1	2659.6	2985.8	3619.3	4231.8	4824.3	4854.2	3870.1
60°	1190.5	1214.9	1502.3	1899.5	2170.3	2515.3	3577.2	4744.4	5606.5	5572.1	4286.2
62.5°	881.0	894.3	1101.8	1360.3	1719.8	2049.3	3312.0	5095.0	6231.2	6161.3	4518.0
65°	681.3	685.7	793.3	930.9	1250.5	1593.3	2917.0	5148.3	6576.2	6501.9	4513.6
66°	606.9	610.2	689.0	795.5	1064.0	1394.7	2743.9	5062.8	6630.6	6551.8	4458.1
67.5°	509.3	507.1	553.7	623.6	798.9	1076.3	2436.6	4813.2	6566.3	6526.3	4280.6
70°	377.2	378.4	401.7	418.3	467.1	595.8	1759.7	4175.2	6051.4	6049.2	3793.5
72.5°	279.6	282.9	300.7	304.0	291.8	322.9	1014.1	3320.9	4840.9	4842.0	2836.0
75°	209.7	215.3	220.8	223.0	211.9	204.2	458.2	2234.6	3184.4	3161.1	1605.5
77.5°	159.8	162.0	166.4	163.1	160.9	140.9	190.8	1089.6	1572.2	1432.4	520.4
80°	116.5	116.5	120.9	116.5	115.4	101.0	104.3	349.5	461.6	383.9	112.1
82.5°	73.2	72.1	75.4	74.3	72.1	64.4	61.0	97.6	106.5	95.4	54.4
85°	41.1	39.9	38.8	37.7	34.4	28.8	33.3	36.6	48.8	49.9	38.8
87.5°	14.4	14.4	13.3	12.2	10.0	10.0	12.2	12.2	17.8	17.8	20.0
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°	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6	674.6
2.5°	679.0	666.8	649.1	625.8	609.1	592.5	574.7	564.8	550.3	547.0	551.4
5°	691.2	669.1	624.7	575.9	533.7	496.0	460.5	439.4	418.3	410.5	413.9
7.5°	716.8	679.0	603.6	524.8	454.9	398.3	356.2	331.8	312.9	305.1	307.3
10°	754.5	696.8	583.6	467.1	377.2	317.3	281.8	266.3	255.2	250.8	251.9
12.5°	800.0	722.3	558.1	409.4	310.7	258.5	241.9	238.6	236.3	234.1	235.2
15°	851.0	744.5	528.1	352.8	258.5	229.7	224.1	223.0	221.9	221.9	221.9
17.5°	904.3	764.5	494.9	299.6	225.2	211.9	208.6	208.6	208.6	209.7	209.7
20°	954.2	780.0	456.0	251.9	206.4	195.3	193.1	193.1	194.2	195.3	195.3
22.5°	1003.0	786.7	410.5	218.6	190.8	180.9	177.5	177.5	177.5	178.6	178.6
25°	1045.2	786.7	365.0	197.5	177.5	167.5	163.1	162.0	163.1	163.1	163.1
27.5°	1080.7	783.3	320.7	183.1	164.2	154.2	149.8	148.7	150.9	152.0	152.0
30°	1118.4	778.9	285.2	169.8	153.1	143.1	138.7	138.7	142.0	146.5	146.5
32.5°	1155.0	782.2	257.4	158.7	142.0	134.3	129.8	130.9	137.6	144.2	144.2
35°	1193.9	788.9	240.8	150.9	134.3	126.5	123.2	126.5	133.1	139.8	139.8
37.5°	1232.7	796.6	230.8	144.2	127.6	119.8	117.6	122.0	129.8	136.5	137.6
40°	1273.8	803.3	219.7	137.6	123.2	114.3	113.2	117.6	127.6	134.3	135.4
42.5°	1324.8	816.6	206.4	132.0	118.7	107.6	108.7	112.1	122.0	132.0	133.1
45°	1424.6	858.8	193.1	126.5	113.2	104.3	102.1	104.3	115.4	126.5	128.7
47.5°	1612.2	954.2	178.6	120.9	107.6	102.1	93.2	95.4	105.4	117.6	118.7
50°	1971.7	1157.3	170.9	115.4	103.2	94.3	84.3	84.3	92.1	103.2	103.2
52.5°	2532.0	1521.2	175.3	111.0	97.6	86.5	76.6	75.4	79.9	87.7	87.7
55°	3136.7	1920.6	192.0	106.5	91.0	82.1	71.0	65.5	68.8	73.2	73.2
57.5°	3616.0	2121.4	237.4	104.3	83.2	78.8	64.4	56.6	59.9	64.4	64.4
60°	3826.8	2003.8	288.5	106.5	77.7	73.2	57.7	49.9	55.5	59.9	61.0
62.5°	3655.9	1649.9	309.6	101.0	69.9	65.5	56.6	46.6	53.3	56.6	57.7
65°	3286.5	1253.8	241.9	87.7	64.4	56.6	51.0	44.4	49.9	53.3	53.3
66°	3111.2	1092.9	206.4	81.0	62.1	53.3	48.8	44.4	48.8	51.0	52.1
67.5°	2839.3	862.1	153.1	71.0	57.7	48.8	45.5	42.2	46.6	48.8	48.8
70°	2220.2	513.7	92.1	55.5	49.9	43.3	41.1	38.8	42.2	43.3	43.3
72.5°	1390.3	244.1	58.8	41.1	42.2	41.1	34.4	36.6	37.7	38.8	38.8
75°	673.5	96.5	39.9	30.0	34.4	38.8	27.7	32.2	33.3	35.5	34.4
77.5°	187.5	46.6	25.5	22.2	30.0	30.0	21.1	25.5	30.0	37.7	34.4
80°	54.4	30.0	16.6	16.6	21.1	21.1	14.4	17.8	20.0	22.2	23.3
82.5°	37.7	20.0	11.1	12.2	12.2	13.3	8.9	8.9	11.1	11.1	12.2
85°	30.0	8.9	6.7	7.8	5.5	6.7	4.4	4.4	5.5	4.4	4.4
87.5°	12.2	4.4	4.4	4.4	3.3	3.3	2.2	1.1	1.1	1.1	1.1
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)