

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: P1211646

Luminaire Tested: **ARCH4-70-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8825 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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



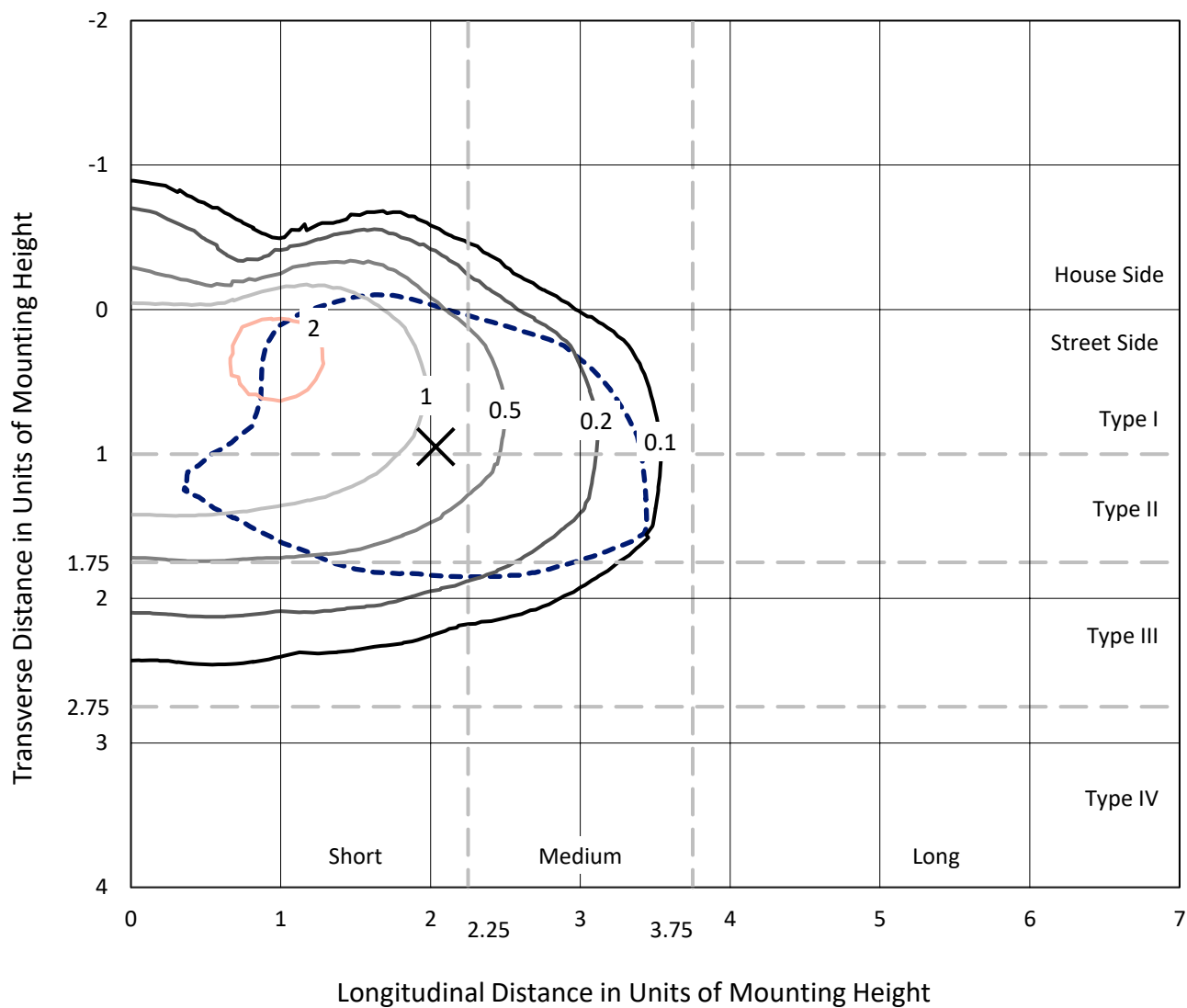
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

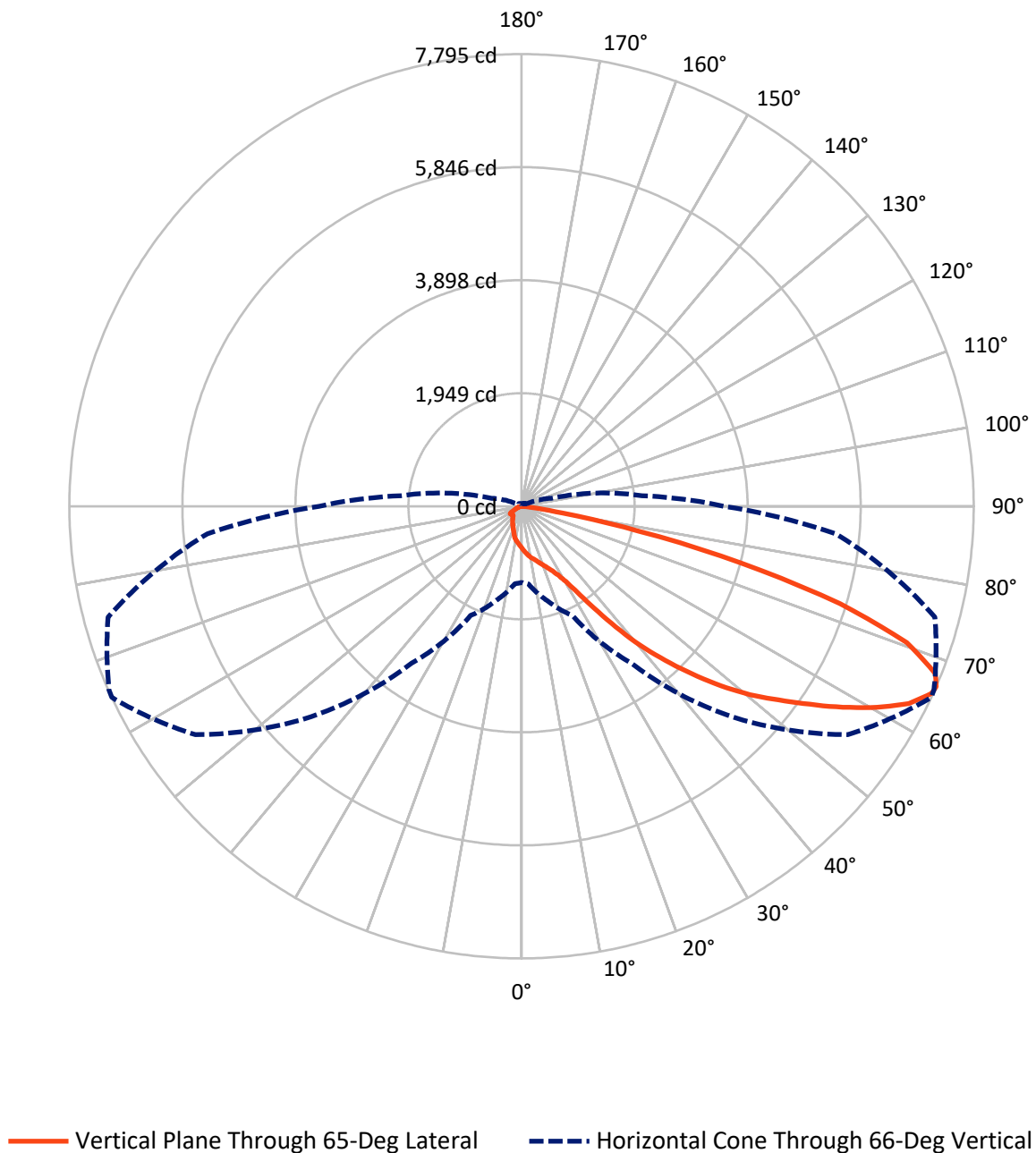
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1041.5	0.0	1041.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7783.5	0.0	7783.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	8825.0	0.0	8825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	0.8
10°-20°	201.8	2.3
20°-30°	369.3	4.2
30°-40°	750.4	8.5
40°-50°	1584.7	18.0
50°-60°	2436.3	27.6
60°-70°	2452.3	27.8
70°-80°	916.3	10.4
80°-90°	45.8	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°	8825.0	100.0
0°-180°	8825.0	100.0

Coefficient of Utilization



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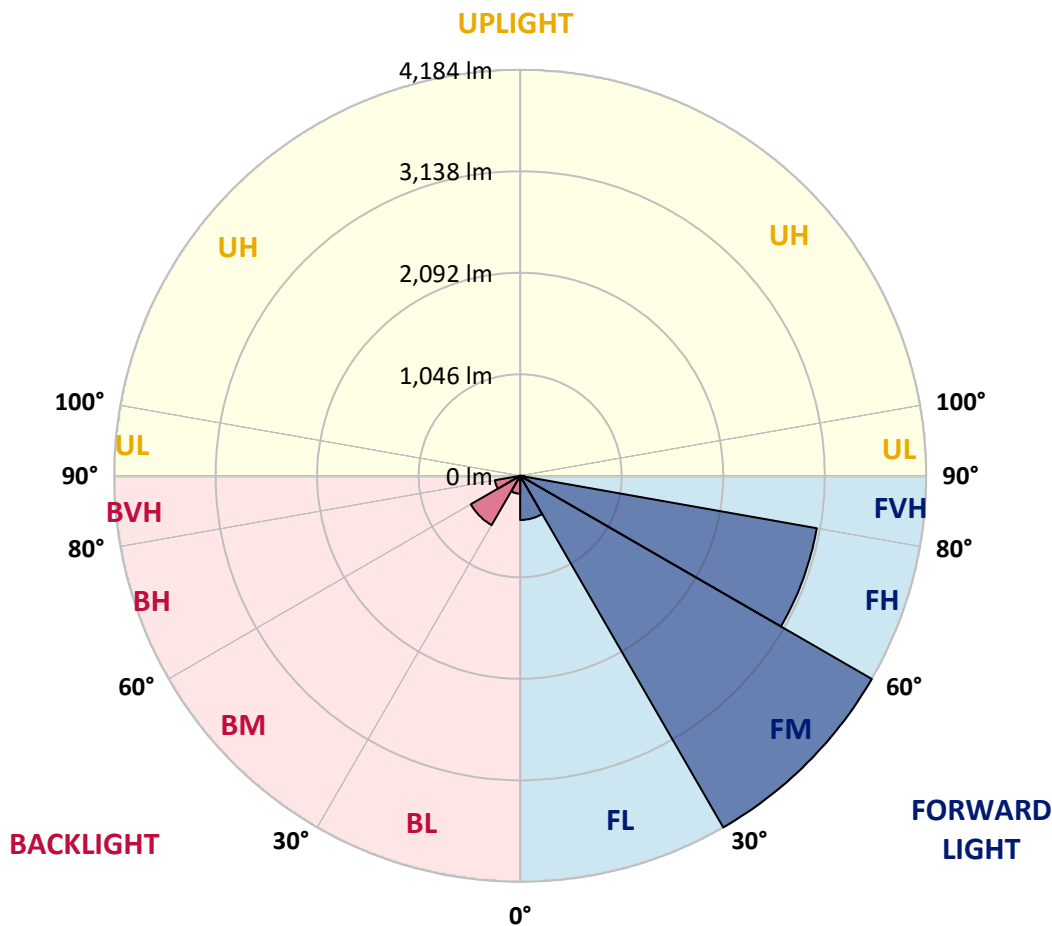
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.9	5.2			
FM	(30°-60°)	4184.2	47.4			
FH	(60°-80°)	3104.0	35.2			G2/5000
FVH	(80°-90°)	40.4	0.5			G1/100
BL	(0°-30°)	184.3	2.1	B1/500		
BM	(30°-60°)	587.2	6.7	B1/1000		
BH	(60°-80°)	264.6	3.0	B1/500		G1/500
BVH	(80°-90°)	5.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	819.9	821.5	818.3	811.9	805.5	797.5	784.6	763.8	760.6	746.2	730.2
5°	875.9	879.1	874.3	872.7	869.5	858.3	840.7	810.3	807.1	778.2	741.4
7.5°	895.1	899.9	896.7	896.7	896.7	891.9	883.9	856.7	851.9	815.1	759.0
10°	909.5	912.7	911.1	917.6	922.4	919.2	914.3	898.3	893.5	856.7	783.0
12.5°	932.0	933.6	935.2	938.4	946.4	949.6	948.0	933.6	930.4	904.7	813.5
15°	952.8	952.8	954.4	968.8	980.0	986.4	988.0	976.8	973.6	952.8	851.9
17.5°	972.0	973.6	978.4	994.4	1013.6	1026.4	1034.4	1029.6	1024.8	1008.8	896.7
20°	1000.8	1004.0	1008.8	1031.2	1050.5	1071.3	1087.3	1085.7	1084.1	1072.9	949.6
22.5°	1050.5	1053.7	1061.7	1082.5	1101.7	1127.3	1154.5	1152.9	1148.1	1140.1	1012.0
25°	1125.7	1125.7	1130.5	1148.1	1172.2	1202.6	1228.2	1233.0	1228.2	1223.4	1090.5
27.5°	1220.2	1221.8	1221.8	1241.0	1263.4	1301.9	1333.9	1338.7	1338.7	1333.9	1196.2
30°	1351.5	1346.7	1343.5	1359.5	1383.5	1439.6	1495.6	1505.2	1500.4	1508.4	1345.1
32.5°	1577.3	1569.3	1542.1	1545.3	1559.7	1636.5	1731.0	1764.6	1763.0	1777.5	1585.3
35°	1889.5	1873.5	1833.5	1799.9	1798.3	1881.5	2025.7	2152.2	2150.6	2200.2	1950.4
37.5°	2241.8	2262.7	2187.4	2129.7	2112.1	2177.8	2363.5	2637.4	2651.8	2738.2	2429.2
40°	2712.6	2725.4	2629.4	2547.7	2464.4	2488.4	2733.4	3159.4	3185.0	3281.1	2908.0
42.5°	3122.6	3135.4	3079.3	2980.0	2874.4	2829.5	3106.5	3633.4	3654.2	3787.1	3401.2
45°	3401.2	3410.8	3430.0	3439.6	3319.5	3226.6	3562.9	4120.2	4145.8	4299.5	3883.2
47.5°	3619.0	3627.0	3665.4	3761.5	3737.5	3663.8	4027.3	4626.2	4632.6	4803.9	4352.4
50°	3719.8	3739.1	3833.5	3980.9	4086.5	4107.4	4531.7	5105.0	5122.6	5285.9	4795.9
52.5°	3607.8	3614.2	3852.8	4129.8	4342.8	4554.1	5037.7	5548.5	5599.8	5721.5	5194.7
55°	3229.8	3276.3	3638.2	4125.0	4544.5	4978.5	5579.0	6027.3	6073.8	6150.6	5545.3
57.5°	2791.1	2842.3	3282.7	3918.4	4631.0	5370.8	6080.2	6536.6	6568.6	6589.4	5867.2
60°	2411.6	2459.6	2912.8	3522.9	4544.5	5647.8	6546.2	7042.6	7069.8	7013.7	6028.9
62.5°	1945.6	1993.6	2450.0	2999.3	4205.0	5703.9	6892.0	7492.5	7503.7	7351.6	5929.7
65°	1466.8	1498.8	1879.9	2350.7	3611.0	5406.0	6970.5	7772.8	7761.6	7449.3	5631.8
66°	1314.7	1341.9	1678.2	2078.5	3301.9	5133.8	6864.8	7795.2	7784.0	7377.2	5436.5
67.5°	1133.7	1141.7	1418.8	1700.6	2762.3	4555.7	6543.0	7692.7	7702.3	7178.7	5079.4
70°	885.5	883.9	1044.1	1183.4	1886.3	3241.1	5457.3	7047.4	7093.8	6429.3	4331.5
72.5°	566.9	547.6	640.5	723.8	1098.5	1881.5	3979.3	5743.9	5822.4	5050.5	3226.6
75°	337.9	318.7	341.1	361.9	526.8	904.7	2339.5	3908.8	3984.1	3237.9	1920.0
77.5°	253.0	245.0	246.6	229.0	233.8	339.5	1068.1	2065.7	2120.1	1325.9	728.6
80°	193.8	172.9	161.7	169.7	153.7	134.5	397.1	711.0	744.6	313.9	152.1
82.5°	129.7	112.1	104.1	113.7	97.7	75.3	96.1	137.7	134.5	84.9	59.2
85°	67.3	57.6	57.6	57.6	49.6	36.8	41.6	56.0	56.0	44.8	35.2
87.5°	19.2	17.6	20.8	19.2	14.4	14.4	16.0	19.2	19.2	17.6	16.0
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	717.4	711.0	693.4	680.6	667.7	656.5	643.7	640.5	634.1	635.7	632.5
5°	722.2	704.6	674.2	645.3	622.9	603.7	579.7	570.1	557.3	552.5	549.3
7.5°	728.6	703.0	658.1	618.1	579.7	541.2	502.8	480.4	466.0	459.6	454.8
10°	743.0	709.4	650.1	587.7	522.0	467.6	429.2	413.1	403.5	401.9	400.3
12.5°	762.2	719.0	642.1	549.3	462.8	411.5	387.5	382.7	381.1	381.1	379.5
15°	791.0	735.0	629.3	504.4	416.3	381.1	369.9	361.9	358.7	358.7	358.7
17.5°	819.9	754.2	610.1	458.0	384.3	361.9	350.7	345.9	342.7	344.3	342.7
20°	856.7	776.6	584.5	417.9	363.5	345.9	334.7	329.9	328.3	328.3	328.3
22.5°	898.3	802.3	552.5	387.5	345.9	329.9	318.7	313.9	310.7	312.3	312.3
25°	954.4	834.3	518.8	357.1	328.3	313.9	301.0	294.6	294.6	296.2	297.8
27.5°	1026.4	872.7	485.2	337.9	312.3	297.8	283.4	277.0	278.6	281.8	281.8
30°	1132.1	925.6	451.6	317.1	294.6	278.6	265.8	259.4	262.6	269.0	269.0
32.5°	1282.7	1012.0	422.7	293.0	269.0	251.4	238.6	233.8	241.8	254.6	254.6
35°	1551.7	1170.6	405.1	269.0	241.8	221.0	205.0	200.2	211.4	227.4	227.4
37.5°	1912.0	1425.2	411.5	248.2	219.4	195.4	177.7	171.3	179.3	193.8	198.6
40°	2313.9	1732.6	467.6	230.6	198.6	174.5	156.9	150.5	155.3	161.7	163.3
42.5°	2715.8	2059.3	573.3	217.8	182.5	156.9	140.9	136.1	139.3	140.9	142.5
45°	3116.2	2382.8	706.2	209.8	168.1	142.5	126.5	126.5	128.1	128.1	128.1
47.5°	3495.7	2698.2	845.5	208.2	155.3	128.1	115.3	116.9	116.9	118.5	118.5
50°	3854.4	2980.0	986.4	213.0	144.1	115.3	105.7	105.7	105.7	107.3	105.7
52.5°	4153.8	3226.6	1133.7	221.0	132.9	105.7	96.1	96.1	96.1	97.7	96.1
55°	4437.2	3450.8	1284.3	232.2	123.3	97.7	88.1	84.9	84.9	86.5	84.9
57.5°	4667.8	3599.7	1426.8	233.8	115.3	89.7	81.7	76.9	76.9	76.9	76.9
60°	4677.4	3513.3	1468.4	205.0	105.7	81.7	73.7	67.3	68.9	68.9	68.9
62.5°	4371.6	3058.5	1180.2	153.7	94.5	73.7	67.3	60.8	60.8	60.8	60.8
65°	3771.1	2379.6	691.8	121.7	81.7	65.7	59.2	54.4	54.4	54.4	52.8
66°	3489.3	2086.5	530.0	110.5	76.9	64.1	57.6	52.8	51.2	49.6	49.6
67.5°	3029.7	1649.4	331.5	97.7	70.5	59.2	52.8	48.0	46.4	44.8	44.8
70°	2281.9	1047.3	161.7	75.3	60.8	51.2	46.4	41.6	40.0	38.4	36.8
72.5°	1601.3	613.3	84.9	57.6	49.6	44.8	40.0	35.2	33.6	32.0	32.0
75°	904.7	296.2	56.0	41.6	40.0	36.8	33.6	28.8	27.2	27.2	27.2
77.5°	342.7	102.5	38.4	30.4	32.0	28.8	24.0	24.0	22.4	24.0	22.4
80°	89.7	44.8	24.0	22.4	24.0	20.8	17.6	19.2	19.2	19.2	19.2
82.5°	48.0	25.6	14.4	16.0	14.4	14.4	11.2	12.8	14.4	12.8	14.4
85°	33.6	12.8	8.0	8.0	6.4	6.4	4.8	6.4	8.0	6.4	6.4
87.5°	17.6	4.8	4.8	4.8	4.8	3.2	1.6	0.0	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

(END OF REPORT)