

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: P1211702

Luminaire Tested: **ARCH4-90-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211702
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: ARCH4-90-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA 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: 9631 lumens
Efficiency: N/A
Efficacy: 103.4 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

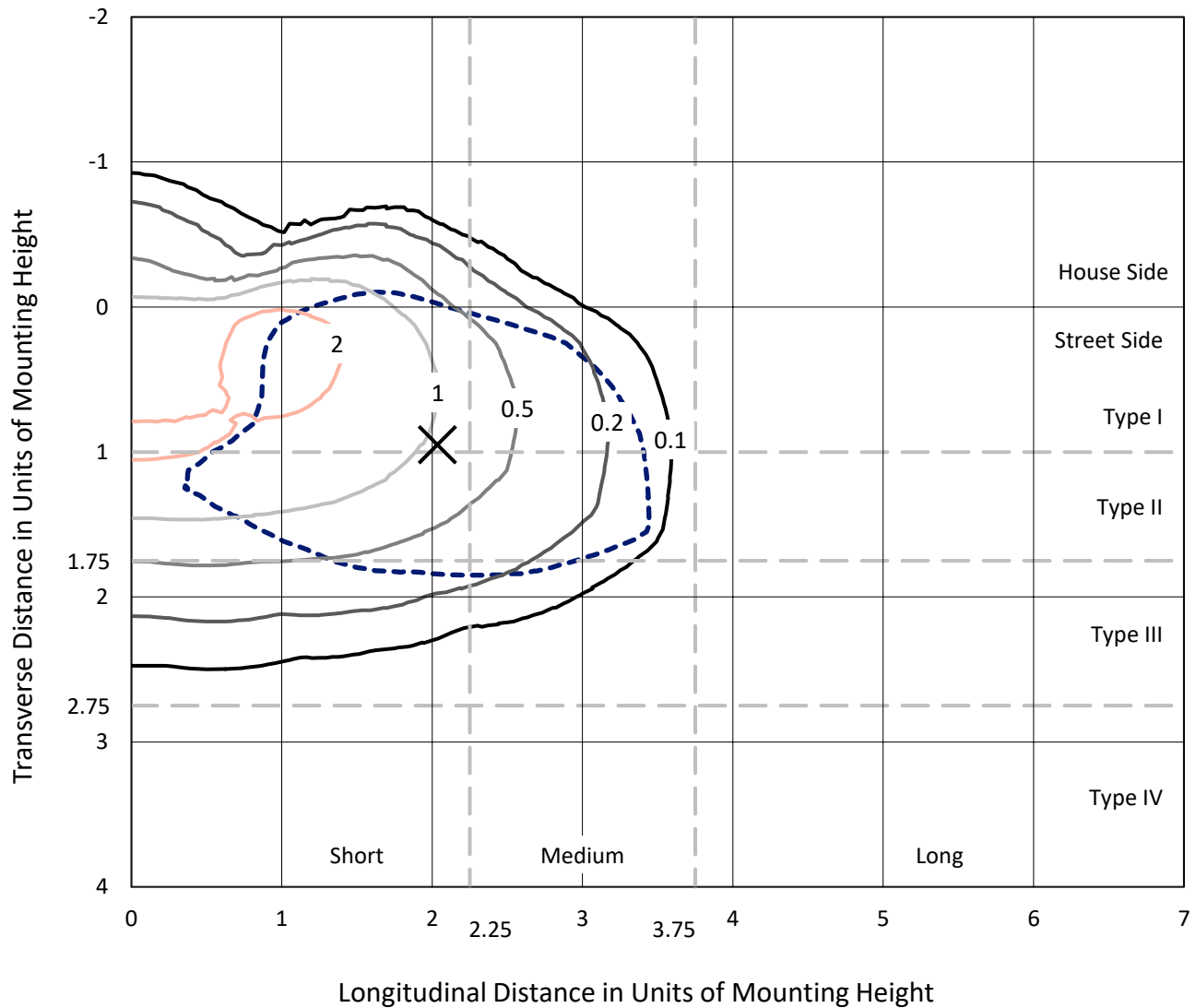
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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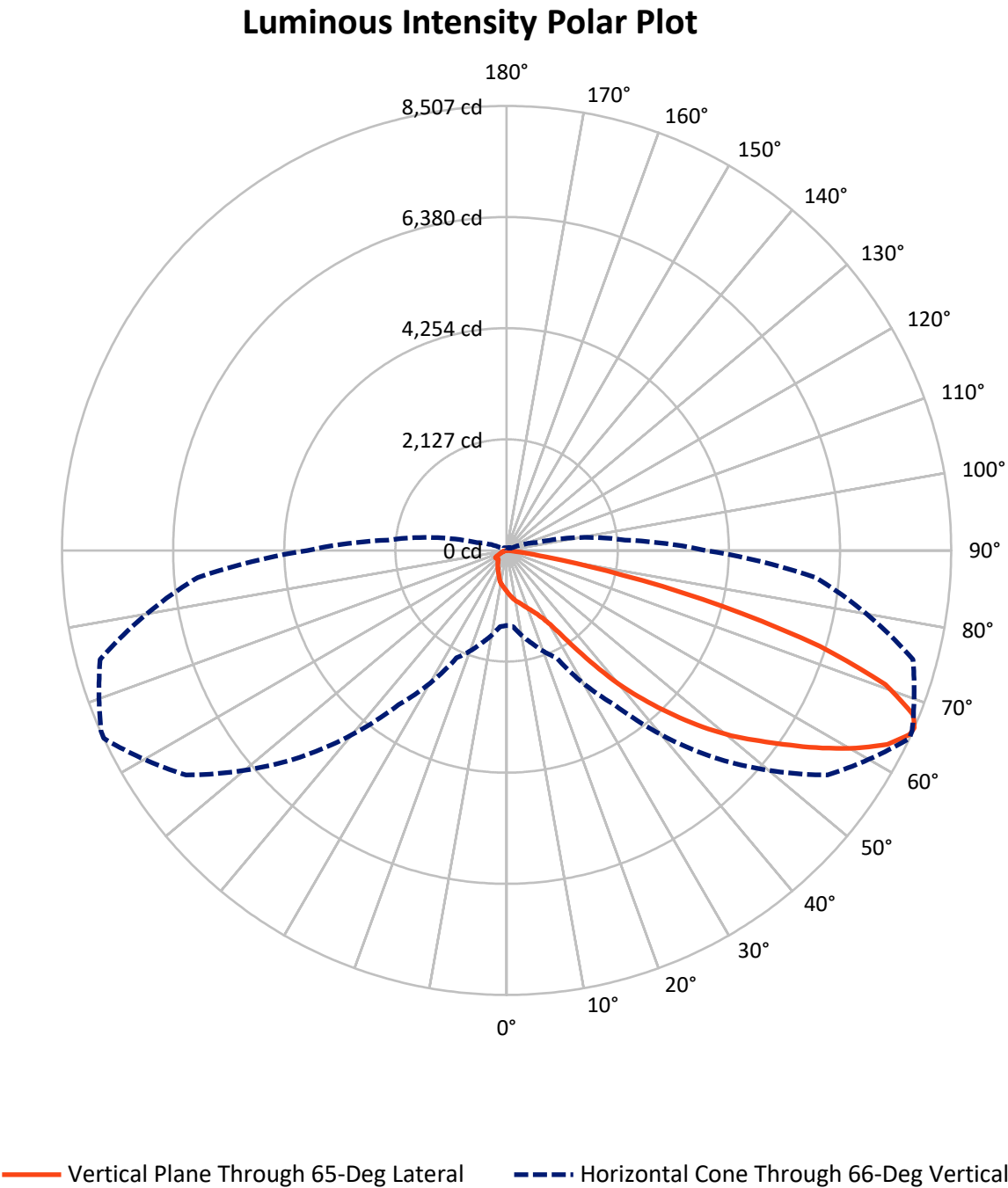
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.7	0.0	1136.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8494.3	0.0	8494.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	9631.0	0.0	9631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	0.8
10°-20°	220.2	2.3
20°-30°	403.1	4.2
30°-40°	819.0	8.5
40°-50°	1729.5	18.0
50°-60°	2658.7	27.6
60°-70°	2676.2	27.8
70°-80°	1000.0	10.4
80°-90°	49.9	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°	9631.0	100.0
0°-180°	9631.0	100.0

Coefficient of Utilization



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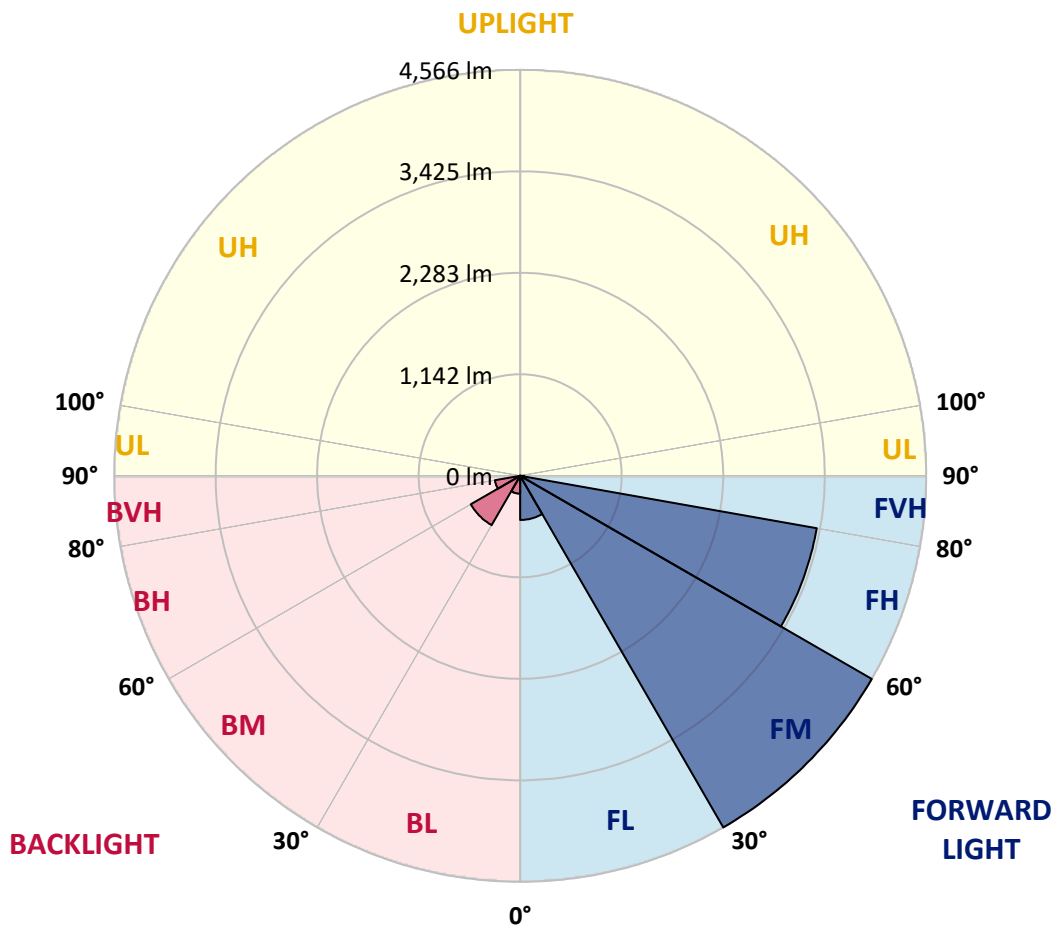
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	496.5	5.2			
FM	(30°-60°)	4566.3	47.4			
FH	(60°-80°)	3387.5	35.2			G2/5000
FVH	(80°-90°)	44.1	0.5			G1/100
BL	(0°-30°)	201.2	2.1	B1/500		
BM	(30°-60°)	640.9	6.7	B1/1000		
BH	(60°-80°)	288.7	3.0	B1/500		G1/500
BVH	(80°-90°)	5.9	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°	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7
2.5°	894.8	896.5	893.0	886.0	879.0	870.3	856.3	833.6	830.1	814.4	796.9
5°	955.9	959.4	954.2	952.4	948.9	936.7	917.5	884.3	880.8	849.3	809.1
7.5°	976.9	982.1	978.6	978.6	978.6	973.4	964.7	934.9	929.7	889.5	828.3
10°	992.6	996.1	994.4	1001.4	1006.6	1003.1	997.9	980.4	975.1	934.9	854.6
12.5°	1017.1	1018.8	1020.6	1024.1	1032.8	1036.3	1034.6	1018.8	1015.3	987.4	887.8
15°	1039.8	1039.8	1041.5	1057.3	1069.5	1076.5	1078.2	1066.0	1062.5	1039.8	929.7
17.5°	1060.8	1062.5	1067.8	1085.2	1106.2	1120.2	1128.9	1123.7	1118.4	1101.0	978.6
20°	1092.2	1095.7	1101.0	1125.4	1146.4	1169.1	1186.6	1184.8	1183.1	1170.9	1036.3
22.5°	1146.4	1149.9	1158.6	1181.4	1202.3	1230.3	1260.0	1258.2	1253.0	1244.3	1104.5
25°	1228.5	1228.5	1233.8	1253.0	1279.2	1312.4	1340.4	1345.6	1340.4	1335.1	1190.1
27.5°	1331.6	1333.4	1333.4	1354.4	1378.8	1420.8	1455.7	1461.0	1461.0	1455.7	1305.4
30°	1474.9	1469.7	1466.2	1483.7	1509.9	1571.1	1632.2	1642.7	1637.5	1646.2	1468.0
32.5°	1721.3	1712.6	1682.9	1686.4	1702.1	1786.0	1889.1	1925.8	1924.1	1939.8	1730.1
35°	2062.1	2044.6	2001.0	1964.3	1962.5	2053.4	2210.7	2348.7	2347.0	2401.2	2128.5
37.5°	2446.6	2469.3	2387.2	2324.3	2305.0	2376.7	2579.4	2878.2	2894.0	2988.3	2651.1
40°	2960.4	2974.4	2869.5	2780.4	2689.5	2715.7	2983.1	3447.9	3475.9	3580.8	3173.6
42.5°	3407.7	3421.7	3360.6	3252.2	3136.9	3087.9	3390.3	3965.2	3987.9	4133.0	3711.8
45°	3711.8	3722.3	3743.3	3753.8	3622.7	3521.3	3888.3	4496.5	4524.4	4692.2	4237.8
47.5°	3949.5	3958.2	4000.2	4105.0	4078.8	3998.4	4395.1	5048.7	5055.7	5242.7	4749.9
50°	4059.6	4080.6	4183.7	4344.4	4459.8	4482.5	4945.6	5571.2	5590.5	5768.7	5233.9
52.5°	3937.3	3944.2	4204.6	4507.0	4739.4	4970.1	5497.8	6055.3	6111.2	6244.0	5669.1
55°	3524.8	3575.5	3970.5	4501.7	4959.6	5433.2	6088.5	6577.8	6628.5	6712.4	6051.8
57.5°	3046.0	3101.9	3582.5	4276.3	5054.0	5861.3	6635.5	7133.5	7168.5	7191.2	6403.1
60°	2631.8	2684.3	3178.8	3844.6	4959.6	6163.7	7144.0	7685.8	7715.5	7654.3	6579.6
62.5°	2123.3	2175.7	2673.8	3273.2	4589.1	6224.8	7521.5	8176.8	8189.1	8023.1	6471.2
65°	1600.8	1635.7	2051.6	2565.4	3940.8	5899.8	7607.1	8482.7	8470.4	8129.7	6146.2
66°	1434.7	1464.5	1831.4	2268.3	3603.5	5602.7	7491.8	8507.1	8494.9	8051.0	5933.0
67.5°	1237.3	1246.0	1548.3	1855.9	3014.5	4971.8	7140.5	8395.3	8405.8	7834.3	5543.3
70°	966.4	964.7	1139.4	1291.4	2058.6	3537.1	5955.7	7691.0	7741.7	7016.5	4727.2
72.5°	618.6	597.7	699.0	789.9	1198.8	2053.4	4342.7	6268.5	6354.1	5511.8	3521.3
75°	368.7	347.8	372.2	394.9	574.9	987.4	2553.2	4265.8	4347.9	3533.6	2095.3
77.5°	276.1	267.4	269.1	249.9	255.1	370.5	1165.6	2254.4	2313.8	1447.0	795.1
80°	211.5	188.7	176.5	185.2	167.8	146.8	433.4	775.9	812.6	342.5	166.0
82.5°	141.6	122.3	113.6	124.1	106.6	82.1	104.9	150.3	146.8	92.6	64.7
85°	73.4	62.9	62.9	62.9	54.2	40.2	45.4	61.2	61.2	48.9	38.4
87.5°	21.0	19.2	22.7	21.0	15.7	15.7	17.5	21.0	21.0	19.2	17.5
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°	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7	784.7
2.5°	782.9	775.9	756.7	742.7	728.7	716.5	702.5	699.0	692.0	693.8	690.3
5°	788.2	768.9	735.7	704.3	679.8	658.8	632.6	622.1	608.2	602.9	599.4
7.5°	795.1	767.2	718.2	674.6	632.6	590.7	548.7	524.3	508.5	501.6	496.3
10°	810.9	774.2	709.5	641.4	569.7	510.3	468.3	450.9	440.4	438.6	436.9
12.5°	831.8	784.7	700.8	599.4	505.0	449.1	422.9	417.7	415.9	415.9	414.2
15°	863.3	802.1	686.8	550.5	454.4	415.9	403.7	394.9	391.5	391.5	391.5
17.5°	894.8	823.1	665.8	499.8	419.4	394.9	382.7	377.5	374.0	375.7	374.0
20°	934.9	847.6	637.9	456.1	396.7	377.5	365.2	360.0	358.3	358.3	358.3
22.5°	980.4	875.5	602.9	422.9	377.5	360.0	347.8	342.5	339.0	340.8	340.8
25°	1041.5	910.5	566.2	389.7	358.3	342.5	328.5	321.6	321.6	323.3	325.0
27.5°	1120.2	952.4	529.5	368.7	340.8	325.0	309.3	302.3	304.1	307.6	307.6
30°	1235.5	1010.1	492.8	346.0	321.6	304.1	290.1	283.1	286.6	293.6	293.6
32.5°	1399.8	1104.5	461.4	319.8	293.6	274.4	260.4	255.1	263.9	277.9	277.9
35°	1693.4	1277.5	442.1	293.6	263.9	241.2	223.7	218.4	230.7	248.2	248.2
37.5°	2086.6	1555.3	449.1	270.9	239.4	213.2	194.0	187.0	195.7	211.5	216.7
40°	2525.2	1890.9	510.3	251.6	216.7	190.5	171.3	164.3	169.5	176.5	178.3
42.5°	2963.9	2247.4	625.6	237.7	199.2	171.3	153.8	148.5	152.0	153.8	155.5
45°	3400.8	2600.4	770.7	228.9	183.5	155.5	138.1	138.1	139.8	139.8	139.8
47.5°	3814.9	2944.6	922.7	227.2	169.5	139.8	125.8	127.6	127.6	129.3	129.3
50°	4206.4	3252.2	1076.5	232.4	157.3	125.8	115.3	115.3	115.3	117.1	115.3
52.5°	4533.2	3521.3	1237.3	241.2	145.0	115.3	104.9	104.9	104.9	106.6	104.9
55°	4842.5	3766.0	1401.5	253.4	134.6	106.6	96.1	92.6	92.6	94.4	92.6
57.5°	5094.1	3928.5	1557.1	255.1	125.8	97.9	89.1	83.9	83.9	83.9	83.9
60°	5104.6	3834.2	1602.5	223.7	115.3	89.1	80.4	73.4	75.1	75.1	75.1
62.5°	4770.8	3337.8	1288.0	167.8	103.1	80.4	73.4	66.4	66.4	66.4	66.4
65°	4115.5	2596.9	754.9	132.8	89.1	71.7	64.7	59.4	59.4	59.4	57.7
66°	3807.9	2277.1	578.4	120.6	83.9	69.9	62.9	57.7	55.9	54.2	54.2
67.5°	3306.4	1800.0	361.7	106.6	76.9	64.7	57.7	52.4	50.7	48.9	48.9
70°	2490.3	1142.9	176.5	82.1	66.4	55.9	50.7	45.4	43.7	41.9	40.2
72.5°	1747.6	669.3	92.6	62.9	54.2	48.9	43.7	38.4	36.7	35.0	35.0
75°	987.4	323.3	61.2	45.4	43.7	40.2	36.7	31.5	29.7	29.7	29.7
77.5°	374.0	111.8	41.9	33.2	35.0	31.5	26.2	26.2	24.5	26.2	24.5
80°	97.9	48.9	26.2	24.5	26.2	22.7	19.2	21.0	21.0	21.0	21.0
82.5°	52.4	28.0	15.7	17.5	15.7	15.7	12.2	14.0	15.7	14.0	15.7
85°	36.7	14.0	8.7	8.7	7.0	7.0	5.2	7.0	8.7	7.0	7.0
87.5°	19.2	5.2	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7
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)