

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: P1211608

Luminaire Tested: **ARCH4-60-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211608
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: ARCH4-60-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7427 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

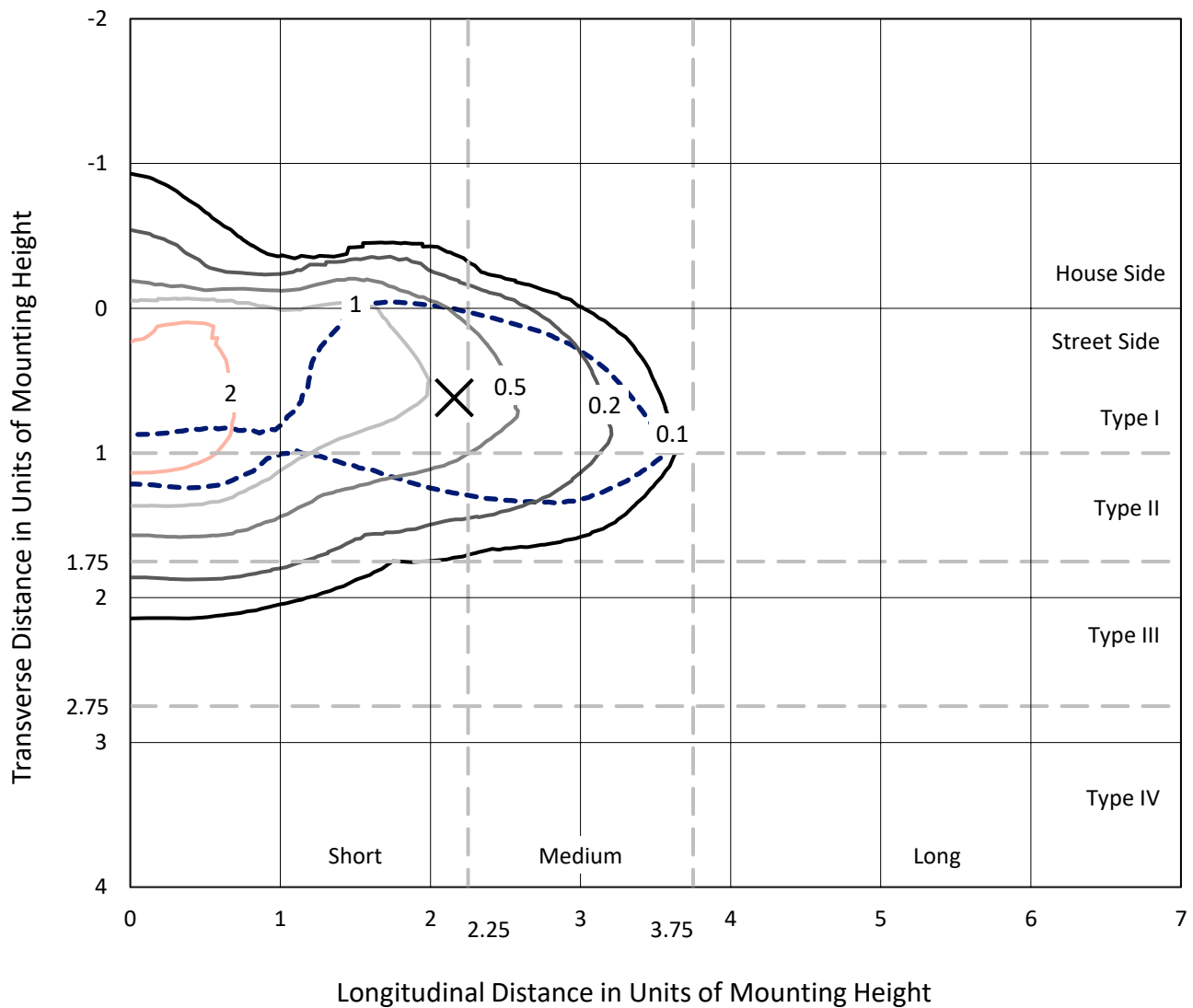
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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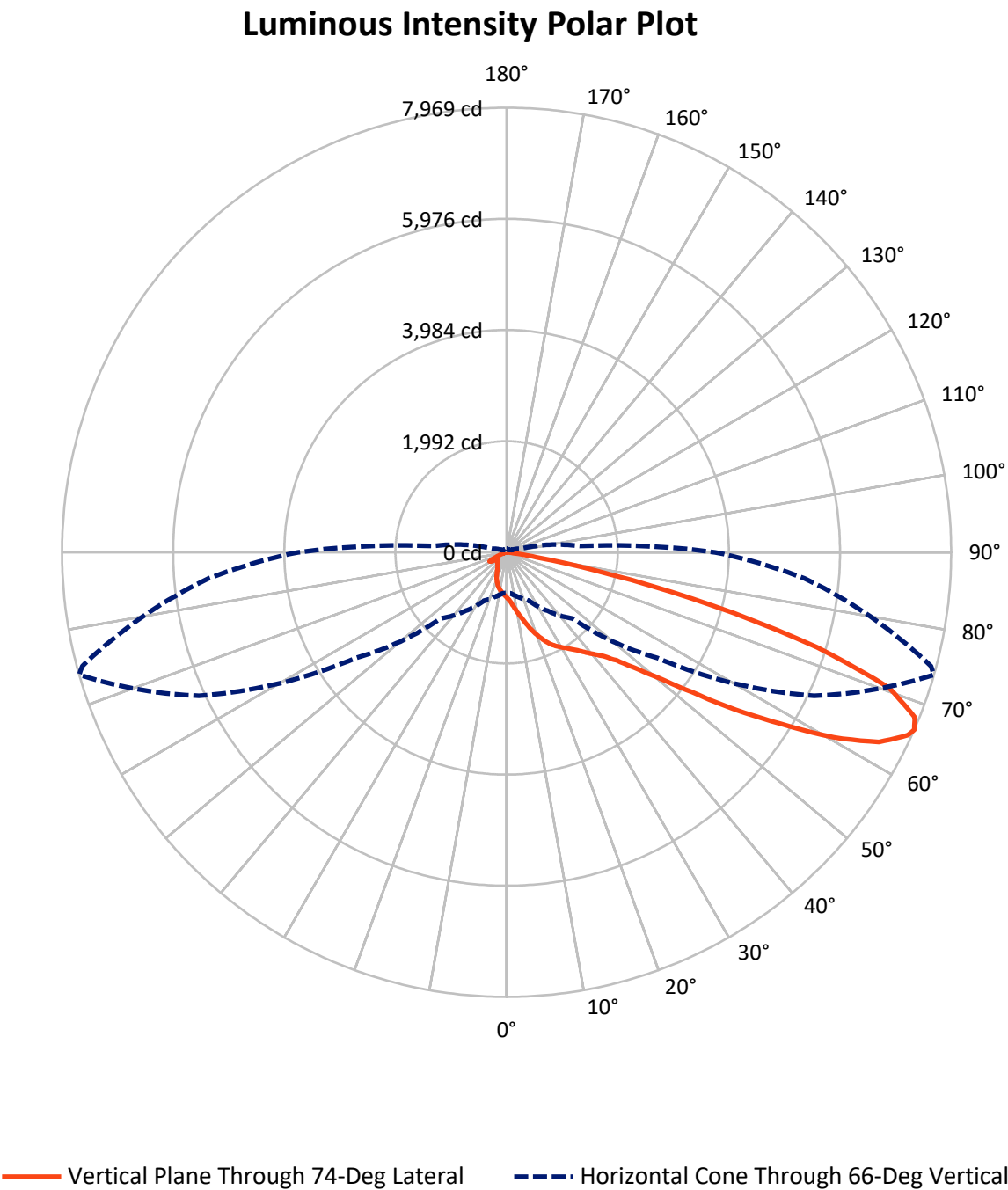
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	728.1	0.0	728.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	6698.9	0.0	6698.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	7427.0	0.0	7427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	1.1
10°-20°	253.7	3.4
20°-30°	484.1	6.5
30°-40°	848.6	11.4
40°-50°	1455.1	19.6
50°-60°	1892.4	25.5
60°-70°	1713.1	23.1
70°-80°	661.0	8.9
80°-90°	39.8	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°	7427.0	100.0
0°-180°	7427.0	100.0

Coefficient of Utilization



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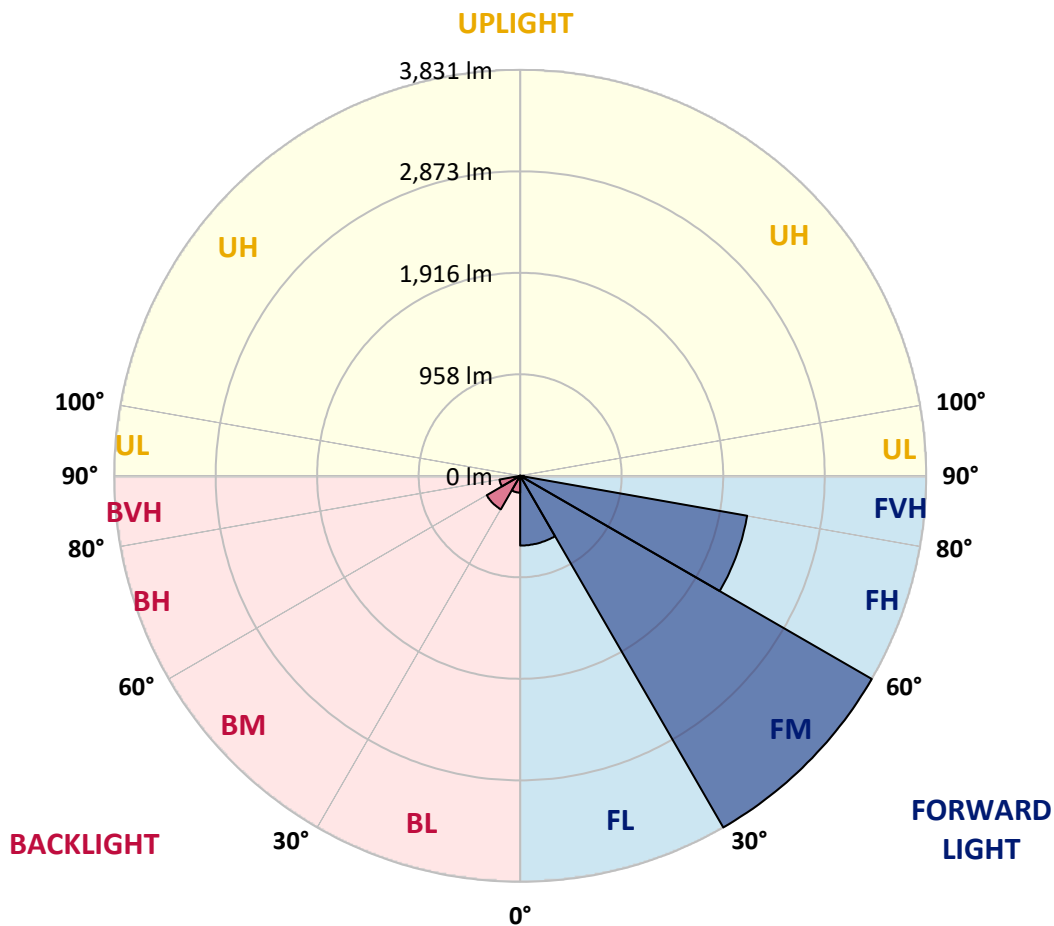
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.1	8.9			
FM	(30°-60°)	3831.2	51.6			
FH	(60°-80°)	2175.1	29.3			G2/5000
FVH	(80°-90°)	34.4	0.5			G1/100
BL	(0°-30°)	158.8	2.1	B1/500		
BM	(30°-60°)	364.9	4.9	B1/1000		
BH	(60°-80°)	199.0	2.7	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7
2.5°	973.4	965.4	950.7	949.4	937.4	922.7	897.4	870.7	852.1	849.4	826.7
5°	1165.4	1161.4	1146.7	1137.4	1114.7	1080.1	1021.4	962.7	913.4	908.1	857.4
7.5°	1216.1	1218.7	1221.4	1230.7	1222.7	1206.7	1162.7	1080.1	1002.7	990.7	902.7
10°	1224.1	1221.4	1221.4	1233.4	1256.1	1278.8	1273.4	1202.7	1102.7	1088.1	965.4
12.5°	1310.8	1314.8	1305.4	1300.1	1296.1	1308.1	1348.1	1317.4	1208.1	1196.1	1041.4
15°	1422.8	1421.4	1408.1	1408.1	1396.1	1376.1	1401.4	1424.1	1334.8	1320.1	1128.1
17.5°	1504.1	1509.4	1508.1	1516.1	1512.1	1485.4	1472.1	1518.8	1465.4	1446.8	1226.7
20°	1569.4	1584.1	1589.4	1614.8	1626.8	1608.1	1573.4	1602.8	1590.8	1573.4	1326.8
22.5°	1638.8	1650.8	1660.1	1704.1	1737.5	1733.5	1689.4	1682.8	1712.1	1696.1	1425.4
25°	1708.1	1713.4	1741.5	1794.8	1848.1	1861.5	1816.1	1764.1	1821.5	1806.8	1513.4
27.5°	1784.1	1786.8	1820.1	1885.5	1960.1	1988.1	1952.1	1856.1	1905.5	1905.5	1593.4
30°	1922.8	1949.5	1962.8	2021.5	2086.8	2125.5	2082.8	1953.5	1980.1	1992.1	1677.4
32.5°	2221.5	2225.5	2221.5	2246.8	2260.2	2282.8	2233.5	2062.8	2056.1	2069.5	1760.1
35°	2677.5	2661.5	2618.8	2581.5	2504.2	2461.5	2397.5	2202.8	2149.5	2168.1	1841.5
37.5°	3230.9	3208.2	3110.9	2996.2	2830.9	2660.2	2580.2	2373.5	2268.2	2292.2	1929.5
40°	3758.9	3744.3	3628.2	3486.9	3204.2	2912.2	2742.9	2517.5	2400.2	2409.5	2018.8
42.5°	4193.6	4190.9	4093.6	3945.6	3582.9	3184.2	2934.9	2658.8	2538.8	2553.5	2112.1
45°	4523.0	4497.6	4425.6	4319.0	3949.6	3466.9	3166.9	2873.5	2761.5	2778.9	2252.2
47.5°	4523.0	4527.0	4573.6	4563.0	4205.6	3732.3	3420.2	3144.2	3090.9	3106.9	2482.8
50°	4154.9	4192.3	4400.3	4575.0	4339.0	3938.9	3693.6	3482.9	3537.6	3561.6	2885.5
52.5°	3426.9	3489.6	3850.9	4249.6	4240.3	4042.9	3976.3	3913.6	4158.9	4201.6	3480.2
55°	2604.2	2645.5	3116.2	3640.2	3810.9	3957.6	4223.0	4460.3	4981.7	4972.3	4084.3
57.5°	1945.5	1984.1	2389.5	2970.9	3196.2	3588.2	4349.6	5085.7	5797.7	5833.7	4651.0
60°	1430.8	1460.1	1805.5	2282.8	2608.2	3022.9	4299.0	5701.7	6737.8	6696.5	5151.0
62.5°	1058.7	1074.7	1324.1	1634.8	2066.8	2462.8	3980.3	6123.1	7488.5	7404.5	5429.7
65°	818.7	824.1	953.4	1118.7	1502.8	1914.8	3505.6	6187.1	7903.2	7813.9	5424.4
66°	729.4	733.4	828.1	956.1	1278.8	1676.1	3297.6	6084.4	7968.5	7873.9	5357.7
67.5°	612.0	609.4	665.4	749.4	960.1	1293.4	2928.2	5784.4	7891.2	7843.2	5144.3
70°	453.4	454.7	482.7	502.7	561.4	716.0	2114.8	5017.7	7272.5	7269.8	4559.0
72.5°	336.0	340.0	361.4	365.4	350.7	388.0	1218.7	3990.9	5817.7	5819.1	3408.2
75°	252.0	258.7	265.4	268.0	254.7	245.3	550.7	2685.5	3826.9	3798.9	1929.5
77.5°	192.0	194.7	200.0	196.0	193.3	169.3	229.3	1309.4	1889.5	1721.4	625.4
80°	140.0	140.0	145.3	140.0	138.7	121.3	125.3	420.0	554.7	461.4	134.7
82.5°	88.0	86.7	90.7	89.3	86.7	77.3	73.3	117.3	128.0	114.7	65.3
85°	49.3	48.0	46.7	45.3	41.3	34.7	40.0	44.0	58.7	60.0	46.7
87.5°	17.3	17.3	16.0	14.7	12.0	12.0	14.7	14.7	21.3	21.3	24.0
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°	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7
2.5°	816.1	801.4	780.1	752.1	732.0	712.0	690.7	678.7	661.4	657.4	662.7
5°	830.7	804.1	750.7	692.0	641.4	596.0	553.4	528.0	502.7	493.4	497.4
7.5°	861.4	816.1	725.4	630.7	546.7	478.7	428.0	398.7	376.0	366.7	369.4
10°	906.7	837.4	701.4	561.4	453.4	381.4	338.7	320.0	306.7	301.4	302.7
12.5°	961.4	868.1	670.7	492.0	373.4	310.7	290.7	286.7	284.0	281.4	282.7
15°	1022.7	894.7	634.7	424.0	310.7	276.0	269.4	268.0	266.7	266.7	266.7
17.5°	1086.7	918.7	594.7	360.0	270.7	254.7	250.7	250.7	250.7	252.0	252.0
20°	1146.7	937.4	548.0	302.7	248.0	234.7	232.0	232.0	233.3	234.7	234.7
22.5°	1205.4	945.4	493.4	262.7	229.3	217.3	213.3	213.3	213.3	214.7	214.7
25°	1256.1	945.4	438.7	237.3	213.3	201.3	196.0	194.7	196.0	196.0	196.0
27.5°	1298.8	941.4	385.4	220.0	197.3	185.3	180.0	178.7	181.3	182.7	182.7
30°	1344.1	936.1	342.7	204.0	184.0	172.0	166.7	166.7	170.7	176.0	176.0
32.5°	1388.1	940.1	309.4	190.7	170.7	161.3	156.0	157.3	165.3	173.3	173.3
35°	1434.8	948.1	289.4	181.3	161.3	152.0	148.0	152.0	160.0	168.0	168.0
37.5°	1481.4	957.4	277.4	173.3	153.3	144.0	141.3	146.7	156.0	164.0	165.3
40°	1530.8	965.4	264.0	165.3	148.0	137.3	136.0	141.3	153.3	161.3	162.7
42.5°	1592.1	981.4	248.0	158.7	142.7	129.3	130.7	134.7	146.7	158.7	160.0
45°	1712.1	1032.1	232.0	152.0	136.0	125.3	122.7	125.3	138.7	152.0	154.7
47.5°	1937.5	1146.7	214.7	145.3	129.3	122.7	112.0	114.7	126.7	141.3	142.7
50°	2369.5	1390.8	205.3	138.7	124.0	113.3	101.3	101.3	110.7	124.0	124.0
52.5°	3042.9	1828.1	210.7	133.3	117.3	104.0	92.0	90.7	96.0	105.3	105.3
55°	3769.6	2308.2	230.7	128.0	109.3	98.7	85.3	78.7	82.7	88.0	88.0
57.5°	4345.6	2549.5	285.4	125.3	100.0	94.7	77.3	68.0	72.0	77.3	77.3
60°	4599.0	2408.2	346.7	128.0	93.3	88.0	69.3	60.0	66.7	72.0	73.3
62.5°	4393.6	1982.8	372.0	121.3	84.0	78.7	68.0	56.0	64.0	68.0	69.3
65°	3949.6	1506.8	290.7	105.3	77.3	68.0	61.3	53.3	60.0	64.0	64.0
66°	3738.9	1313.4	248.0	97.3	74.7	64.0	58.7	53.3	58.7	61.3	62.7
67.5°	3412.2	1036.1	184.0	85.3	69.3	58.7	54.7	50.7	56.0	58.7	58.7
70°	2668.2	617.4	110.7	66.7	60.0	52.0	49.3	46.7	50.7	52.0	52.0
72.5°	1670.8	293.4	70.7	49.3	50.7	49.3	41.3	44.0	45.3	46.7	46.7
75°	809.4	116.0	48.0	36.0	41.3	46.7	33.3	38.7	40.0	42.7	41.3
77.5°	225.3	56.0	30.7	26.7	36.0	36.0	25.3	30.7	36.0	45.3	41.3
80°	65.3	36.0	20.0	20.0	25.3	25.3	17.3	21.3	24.0	26.7	28.0
82.5°	45.3	24.0	13.3	14.7	14.7	16.0	10.7	10.7	13.3	13.3	14.7
85°	36.0	10.7	8.0	9.3	6.7	8.0	5.3	5.3	6.7	5.3	5.3
87.5°	14.7	5.3	5.3	5.3	4.0	4.0	2.7	1.3	1.3	1.3	1.3
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)