

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: P1211254

Luminaire Tested: **ARCH4-220-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211254
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: ARCH4-220-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 870mA 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: 20173 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 221.8
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



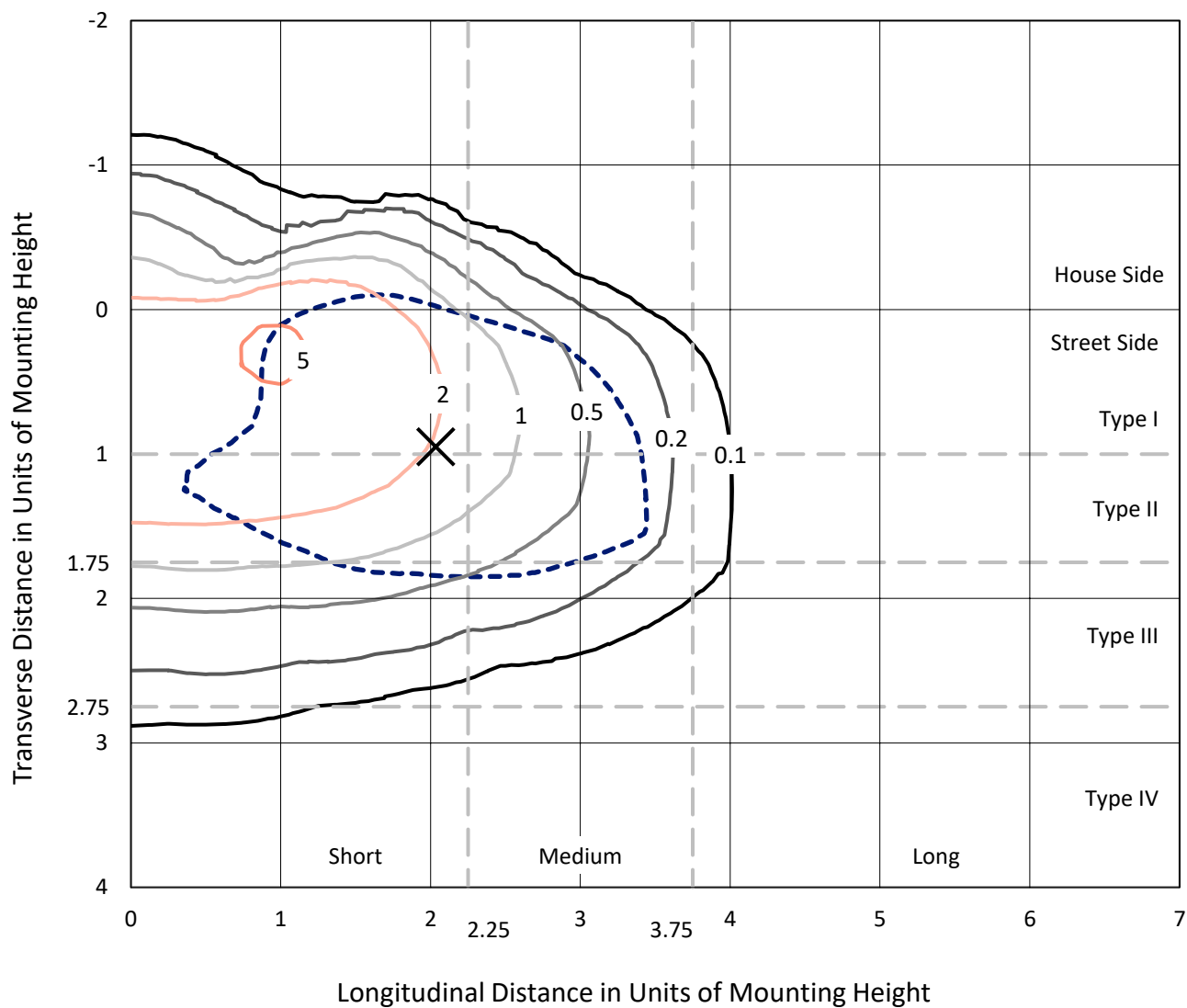
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Iso-Footcandle Lines of Horizontal Illumination

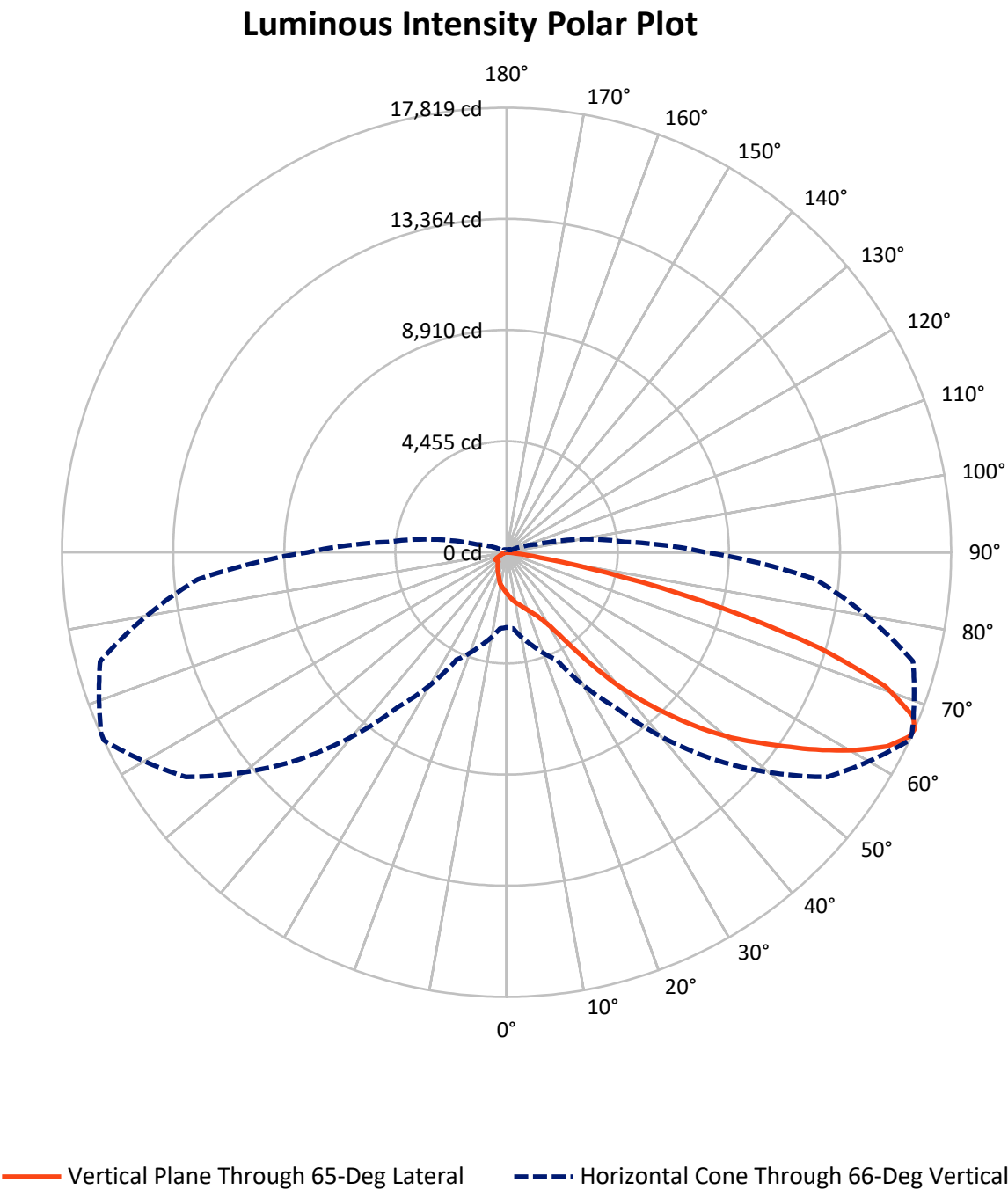
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.8	0.0	2380.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	17792.2	0.0	17792.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	20173.0	0.0	20173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	0.8
10°-20°	461.2	2.3
20°-30°	844.2	4.2
30°-40°	1715.4	8.5
40°-50°	3622.5	18.0
50°-60°	5569.0	27.6
60°-70°	5605.6	27.8
70°-80°	2094.5	10.4
80°-90°	104.6	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°	20173.0	100.0
0°-180°	20173.0	100.0

Coefficient of Utilization



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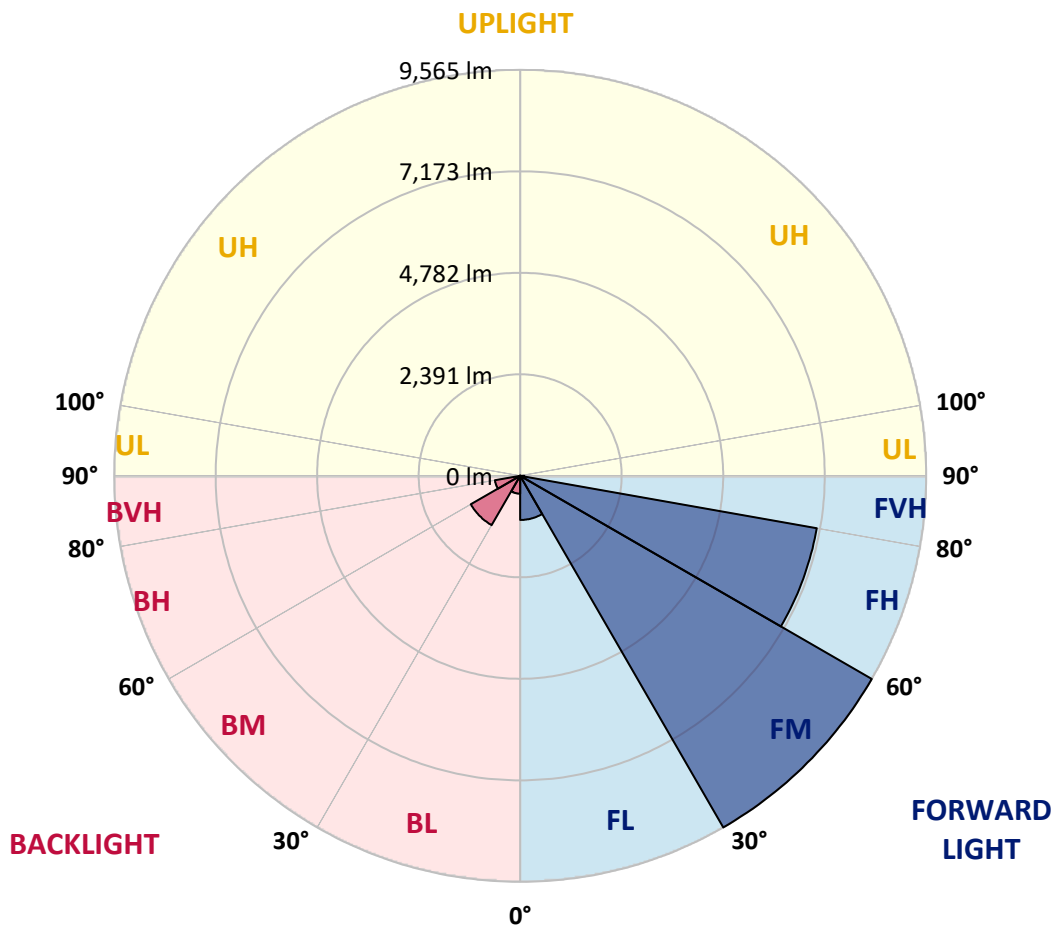
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.9	5.2			
FM	(30°-60°)	9564.6	47.4			
FH	(60°-80°)	7095.3	35.2			G3/7500
FVH	(80°-90°)	92.3	0.5			G1/100
BL	(0°-30°)	421.4	2.1	B1/500		
BM	(30°-60°)	1342.3	6.7	B2/2500		
BH	(60°-80°)	604.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1874.1	1877.8	1870.5	1855.8	1841.2	1822.9	1793.6	1746.0	1738.7	1705.8	1669.2
5°	2002.3	2009.6	1998.6	1994.9	1987.6	1962.0	1921.7	1852.2	1844.9	1779.0	1694.8
7.5°	2046.2	2057.2	2049.8	2049.8	2049.8	2038.9	2020.6	1958.3	1947.3	1863.2	1735.0
10°	2079.1	2086.4	2082.8	2097.4	2108.4	2101.1	2090.1	2053.5	2042.5	1958.3	1789.9
12.5°	2130.4	2134.0	2137.7	2145.0	2163.3	2170.6	2167.0	2134.0	2126.7	2068.1	1859.5
15°	2178.0	2178.0	2181.6	2214.6	2240.2	2254.8	2258.5	2232.9	2225.5	2178.0	1947.3
17.5°	2221.9	2225.5	2236.5	2273.1	2317.1	2346.3	2364.6	2353.7	2342.7	2306.1	2049.8
20°	2287.8	2295.1	2306.1	2357.3	2401.2	2448.8	2485.4	2481.8	2478.1	2452.5	2170.6
22.5°	2401.2	2408.6	2426.9	2474.4	2518.4	2576.9	2639.2	2635.5	2624.5	2606.2	2313.4
25°	2573.3	2573.3	2584.3	2624.5	2679.4	2749.0	2807.5	2818.5	2807.5	2796.6	2492.8
27.5°	2789.2	2792.9	2792.9	2836.8	2888.1	2975.9	3049.1	3060.1	3060.1	3049.1	2734.3
30°	3089.4	3078.4	3071.1	3107.7	3162.6	3290.7	3418.8	3440.8	3429.8	3448.1	3074.8
32.5°	3605.5	3587.2	3525.0	3532.3	3565.3	3741.0	3956.9	4033.8	4030.1	4063.1	3623.8
35°	4319.3	4282.7	4191.2	4114.3	4110.7	4301.0	4630.4	4919.6	4916.0	5029.4	4458.4
37.5°	5124.6	5172.2	5000.1	4868.4	4828.1	4978.2	5402.8	6028.7	6061.7	6259.3	5552.9
40°	6200.8	6230.0	6010.4	5823.7	5633.4	5688.3	6248.3	7222.0	7280.6	7500.2	6647.3
42.5°	7137.8	7167.1	7039.0	6812.1	6570.5	6468.0	7101.2	8305.5	8353.1	8656.9	7774.7
45°	7774.7	7796.7	7840.6	7862.6	7588.1	7375.8	8144.5	9418.3	9476.8	9828.2	8876.5
47.5°	8272.6	8290.9	8378.7	8598.3	8543.4	8375.1	9206.0	10575.0	10589.6	10981.3	9949.0
50°	8503.2	8547.1	8763.1	9099.8	9341.4	9389.0	10359.0	11669.4	11709.7	12083.1	10963.0
52.5°	8246.9	8261.6	8807.0	9440.2	9927.1	10410.3	11515.7	12683.4	12800.5	13078.7	11874.4
55°	7383.1	7489.2	8316.5	9429.3	10388.3	11380.3	12752.9	13777.8	13884.0	14059.7	12676.1
57.5°	6380.1	6497.3	7503.9	8957.1	10586.0	12277.1	13898.6	14941.9	15015.1	15062.7	13411.8
60°	5512.6	5622.4	6658.3	8052.9	10388.3	12910.3	14963.8	16098.6	16160.8	16032.7	13781.5
62.5°	4447.4	4557.2	5600.5	6856.0	9612.3	13038.4	15754.5	17127.1	17152.8	16805.0	13554.6
65°	3353.0	3426.2	4297.3	5373.5	8254.3	12357.6	15933.8	17767.7	17742.1	17028.3	12873.7
66°	3005.2	3067.4	3836.1	4751.2	7547.8	11735.3	15692.3	17819.0	17793.3	16863.6	12427.2
67.5°	2591.6	2609.9	3243.1	3887.4	6314.2	10413.9	14956.5	17584.7	17606.7	16409.7	11610.9
70°	2024.2	2020.6	2386.6	2705.1	4312.0	7408.7	12474.7	16109.5	16215.7	14696.6	9901.5
72.5°	1295.8	1251.9	1464.2	1654.5	2511.1	4301.0	9096.2	13130.0	13309.3	11545.0	7375.8
75°	772.4	728.4	779.7	827.3	1204.3	2068.1	5347.9	8935.1	9107.1	7401.4	4388.9
77.5°	578.3	560.0	563.7	523.4	534.4	776.0	2441.5	4722.0	4846.4	3030.8	1665.5
80°	442.9	395.3	369.7	388.0	351.4	307.5	907.8	1625.2	1702.1	717.4	347.7
82.5°	296.5	256.2	237.9	259.9	223.3	172.0	219.6	314.8	307.5	194.0	135.4
85°	153.7	131.8	131.8	131.8	113.5	84.2	95.2	128.1	128.1	102.5	80.5
87.5°	43.9	40.3	47.6	43.9	32.9	32.9	36.6	43.9	43.9	40.3	36.6
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°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1639.9	1625.2	1585.0	1555.7	1526.4	1500.8	1471.5	1464.2	1449.5	1453.2	1445.9
5°	1650.9	1610.6	1541.0	1475.2	1423.9	1380.0	1325.1	1303.1	1273.8	1262.8	1255.5
7.5°	1665.5	1606.9	1504.4	1412.9	1325.1	1237.2	1149.4	1098.1	1065.2	1050.5	1039.6
10°	1698.4	1621.6	1486.1	1343.4	1193.3	1068.8	981.0	944.4	922.4	918.8	915.1
12.5°	1742.4	1643.5	1467.8	1255.5	1057.9	940.7	885.8	874.8	871.2	871.2	867.5
15°	1808.3	1680.1	1438.5	1153.0	951.7	871.2	845.6	827.3	819.9	819.9	819.9
17.5°	1874.1	1724.1	1394.6	1046.9	878.5	827.3	801.6	790.7	783.3	787.0	783.3
20°	1958.3	1775.3	1336.1	955.4	830.9	790.7	765.0	754.0	750.4	750.4	750.4
22.5°	2053.5	1833.9	1262.8	885.8	790.7	754.0	728.4	717.4	710.1	713.8	713.8
25°	2181.6	1907.1	1186.0	816.3	750.4	717.4	688.2	673.5	673.5	677.2	680.8
27.5°	2346.3	1994.9	1109.1	772.4	713.8	680.8	647.9	633.3	636.9	644.2	644.2
30°	2587.9	2115.7	1032.2	724.8	673.5	636.9	607.6	593.0	600.3	615.0	615.0
32.5°	2932.0	2313.4	966.4	669.9	615.0	574.7	545.4	534.4	552.7	582.0	582.0
35°	3547.0	2675.8	926.1	615.0	552.7	505.1	468.5	457.6	483.2	519.8	519.8
37.5°	4370.6	3257.8	940.7	567.4	501.5	446.6	406.3	391.7	410.0	442.9	453.9
40°	5289.3	3960.6	1068.8	527.1	453.9	399.0	358.7	344.1	355.1	369.7	373.4
42.5°	6208.1	4707.3	1310.4	497.8	417.3	358.7	322.1	311.1	318.5	322.1	325.8
45°	7123.2	5446.7	1614.2	479.5	384.3	325.8	289.2	289.2	292.8	292.8	292.8
47.5°	7990.7	6167.8	1932.7	475.9	355.1	292.8	263.6	267.2	267.2	270.9	270.9
50°	8810.6	6812.1	2254.8	486.8	329.4	263.6	241.6	241.6	241.6	245.2	241.6
52.5°	9495.1	7375.8	2591.6	505.1	303.8	241.6	219.6	219.6	219.6	223.3	219.6
55°	10143.0	7888.2	2935.7	530.8	281.9	223.3	201.3	194.0	194.0	197.7	194.0
57.5°	10670.1	8228.6	3261.4	534.4	263.6	205.0	186.7	175.7	175.7	175.7	175.7
60°	10692.1	8031.0	3356.6	468.5	241.6	186.7	168.4	153.7	157.4	157.4	157.4
62.5°	9993.0	6991.4	2697.7	351.4	216.0	168.4	153.7	139.1	139.1	139.1	139.1
65°	8620.3	5439.4	1581.3	278.2	186.7	150.1	135.4	124.5	124.5	124.5	120.8
66°	7976.1	4769.5	1211.6	252.6	175.7	146.4	131.8	120.8	117.1	113.5	113.5
67.5°	6925.5	3770.2	757.7	223.3	161.1	135.4	120.8	109.8	106.2	102.5	102.5
70°	5216.1	2393.9	369.7	172.0	139.1	117.1	106.2	95.2	91.5	87.9	84.2
72.5°	3660.4	1401.9	194.0	131.8	113.5	102.5	91.5	80.5	76.9	73.2	73.2
75°	2068.1	677.2	128.1	95.2	91.5	84.2	76.9	65.9	62.2	62.2	62.2
77.5°	783.3	234.3	87.9	69.5	73.2	65.9	54.9	54.9	51.2	54.9	51.2
80°	205.0	102.5	54.9	51.2	54.9	47.6	40.3	43.9	43.9	43.9	43.9
82.5°	109.8	58.6	32.9	36.6	32.9	32.9	25.6	29.3	32.9	29.3	32.9
85°	76.9	29.3	18.3	18.3	14.6	14.6	11.0	14.6	18.3	14.6	14.6
87.5°	40.3	11.0	11.0	11.0	11.0	7.3	3.7	0.0	3.7	3.7	3.7
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)