

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: P1211478

Luminaire Tested: **ARCH4-290-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211478
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: ARCH4-290-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA 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: 24619 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 289.7
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



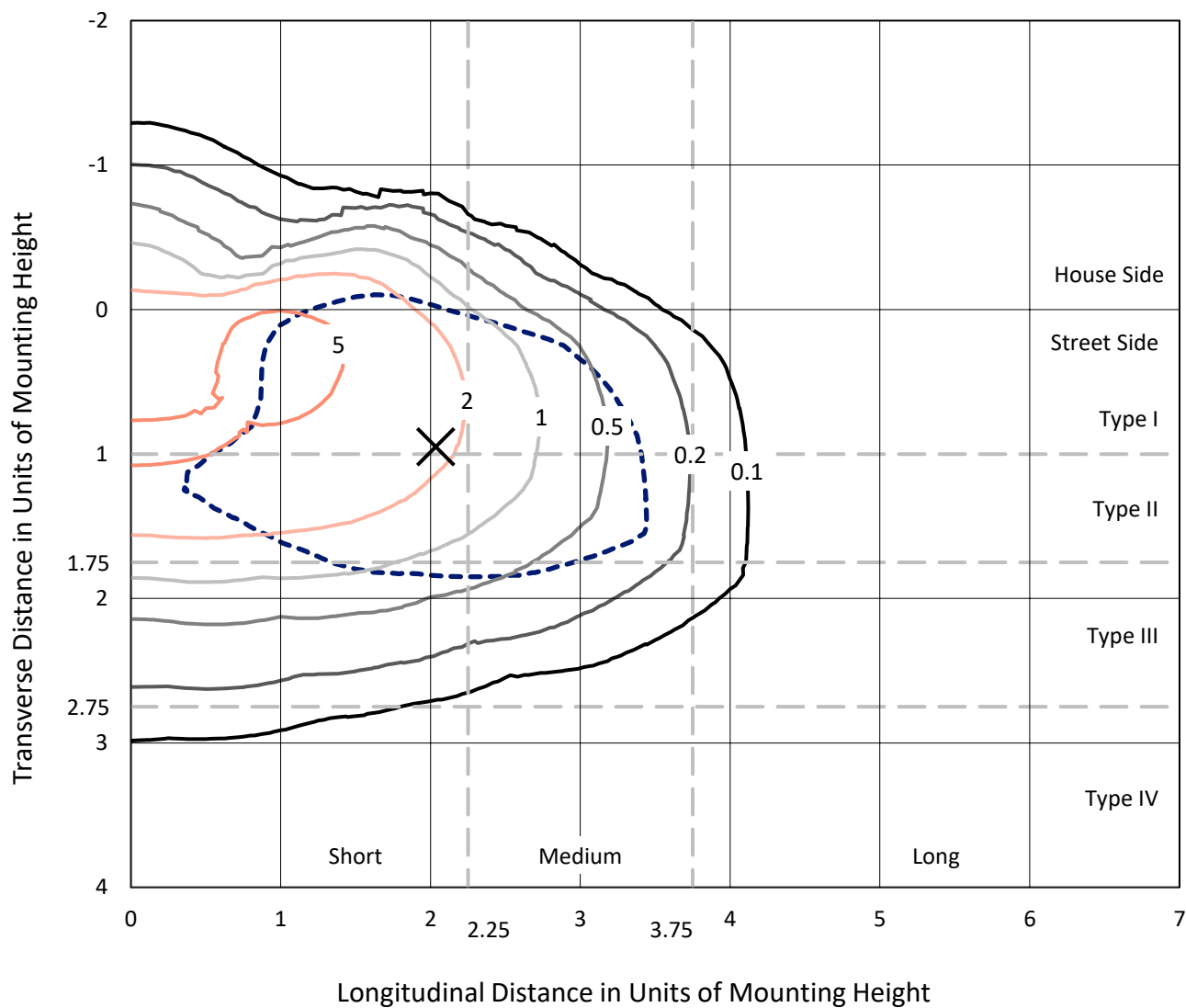
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

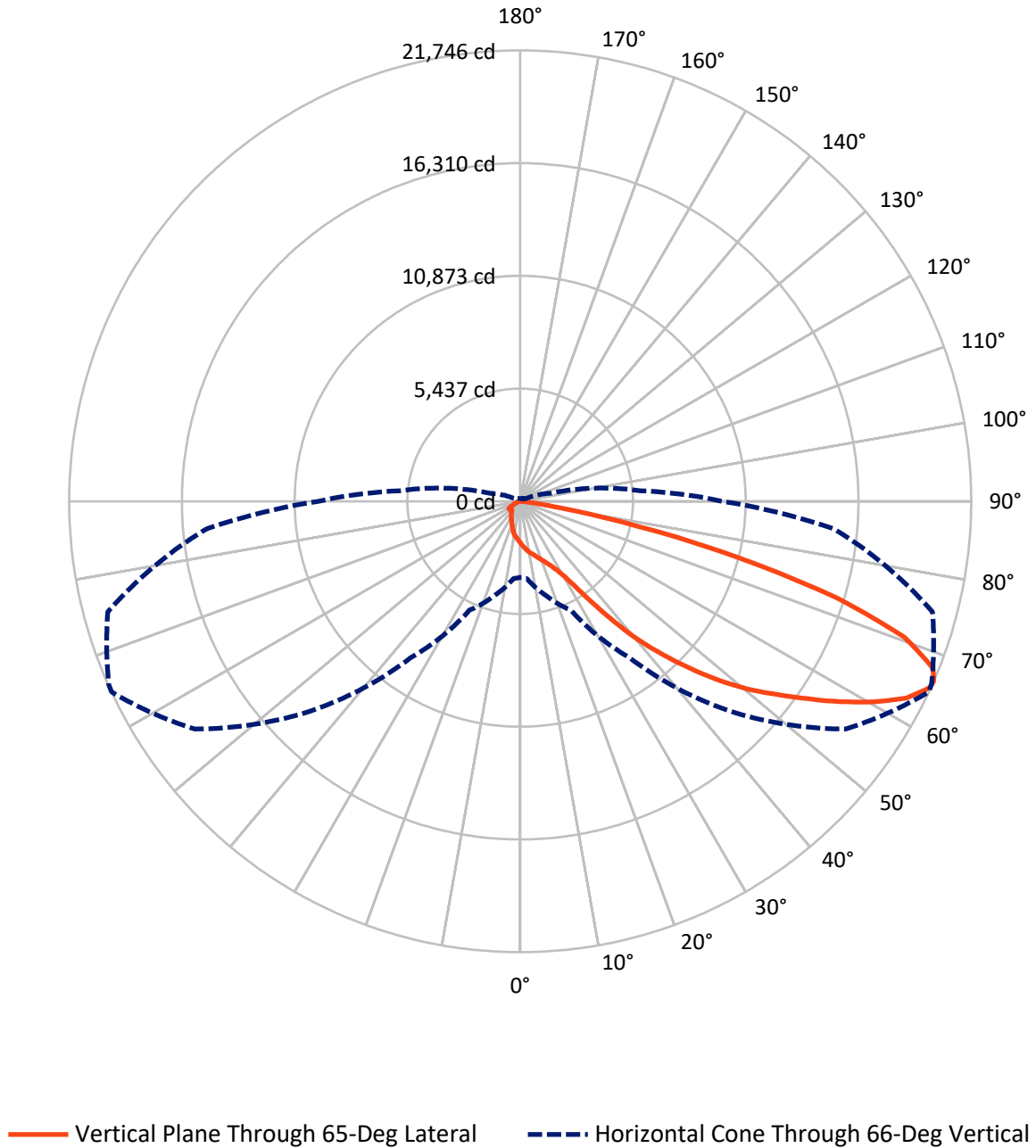
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2905.5	0.0	2905.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21713.5	0.0	21713.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	24619.0	0.0	24619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	0.8
10°-20°	562.9	2.3
20°-30°	1030.3	4.2
30°-40°	2093.5	8.5
40°-50°	4420.9	18.0
50°-60°	6796.4	27.6
60°-70°	6841.0	27.8
70°-80°	2556.2	10.4
80°-90°	127.7	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°	24619.0	100.0
0°-180°	24619.0	100.0

Coefficient of Utilization



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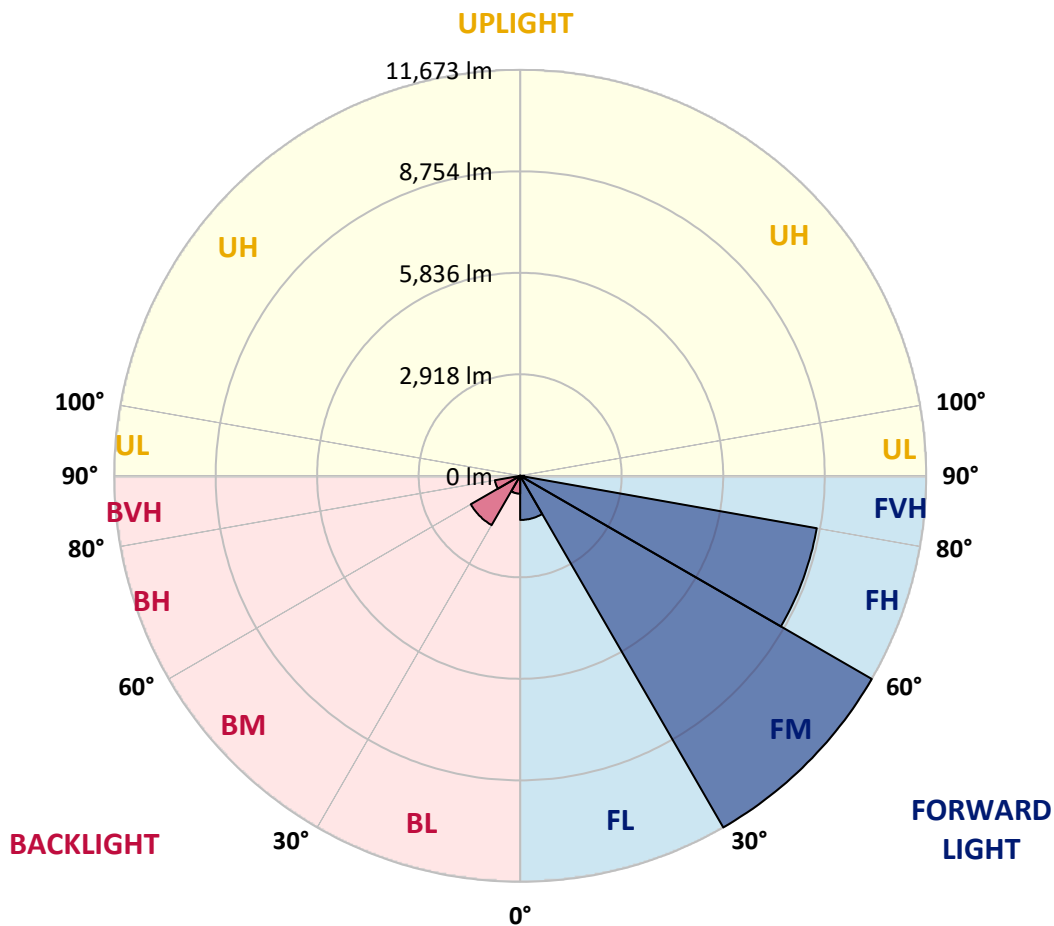
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.1	5.2			
FM	(30°-60°)	11672.6	47.4			
FH	(60°-80°)	8659.1	35.2			G4/12000
FVH	(80°-90°)	112.7	0.5			G2/225
BL	(0°-30°)	514.3	2.1	B2/1000		
BM	(30°-60°)	1638.2	6.7	B2/2500		
BH	(60°-80°)	738.1	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.0	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8
2.5°	2287.2	2291.7	2282.7	2264.9	2247.0	2224.6	2188.9	2130.8	2121.9	2081.7	2037.0
5°	2443.5	2452.5	2439.1	2434.6	2425.7	2394.4	2345.3	2260.4	2251.4	2171.0	2068.3
7.5°	2497.1	2510.5	2501.6	2501.6	2501.6	2488.2	2465.9	2389.9	2376.5	2273.8	2117.4
10°	2537.3	2546.3	2541.8	2559.7	2573.1	2564.2	2550.7	2506.1	2492.7	2389.9	2184.4
12.5°	2599.9	2604.4	2608.8	2617.8	2640.1	2649.0	2644.6	2604.4	2595.4	2523.9	2269.3
15°	2658.0	2658.0	2662.4	2702.6	2733.9	2751.8	2756.2	2725.0	2716.0	2658.0	2376.5
17.5°	2711.6	2716.0	2729.4	2774.1	2827.7	2863.5	2885.8	2872.4	2859.0	2814.3	2501.6
20°	2792.0	2800.9	2814.3	2876.9	2930.5	2988.5	3033.2	3028.7	3024.3	2993.0	2649.0
22.5°	2930.5	2939.4	2961.7	3019.8	3073.4	3144.9	3220.8	3216.4	3203.0	3180.6	2823.2
25°	3140.4	3140.4	3153.8	3203.0	3270.0	3354.8	3426.3	3439.7	3426.3	3412.9	3042.1
27.5°	3404.0	3408.4	3408.4	3462.1	3524.6	3631.8	3721.1	3734.5	3734.5	3721.1	3337.0
30°	3770.3	3756.9	3747.9	3792.6	3859.6	4016.0	4172.3	4199.1	4185.7	4208.1	3752.4
32.5°	4400.2	4377.8	4301.9	4310.8	4351.0	4565.4	4829.0	4922.8	4918.3	4958.6	4422.5
35°	5271.3	5226.6	5114.9	5021.1	5016.6	5248.9	5651.0	6003.9	5999.4	6137.9	5441.0
37.5°	6254.0	6312.1	6102.1	5941.3	5892.2	6075.3	6593.5	7357.4	7397.6	7638.8	6776.7
40°	7567.4	7603.1	7335.1	7107.3	6875.0	6942.0	7625.4	8813.7	8885.2	9153.2	8112.4
42.5°	8711.0	8746.7	8590.4	8313.4	8018.6	7893.5	8666.3	10136.0	10194.1	10564.8	9488.3
45°	9488.3	9515.1	9568.7	9595.5	9260.4	9001.3	9939.4	11494.0	11565.5	11994.3	10832.9
47.5°	10095.8	10118.1	10225.3	10493.4	10426.4	10220.9	11234.9	12905.6	12923.5	13401.5	12141.7
50°	10377.2	10430.8	10694.4	11105.4	11400.2	11458.3	12642.1	14241.3	14290.5	14746.1	13379.2
52.5°	10064.5	10082.4	10748.0	11520.8	12114.9	12704.6	14053.7	15478.7	15621.7	15961.2	14491.5
55°	9010.3	9139.8	10149.4	11507.4	12677.8	13888.4	15563.6	16814.4	16943.9	17158.4	15469.8
57.5°	7786.3	7929.2	9157.7	10931.1	12919.0	14982.9	16961.8	18235.0	18324.3	18382.4	16367.7
60°	6727.5	6861.6	8125.8	9827.8	12677.8	15755.7	18261.8	19646.6	19722.5	19566.2	16818.9
62.5°	5427.6	5561.6	6834.8	8367.0	11730.8	15912.0	19226.7	20901.9	20933.1	20508.7	16541.9
65°	4091.9	4181.3	5244.4	6557.8	10073.5	15081.1	19445.6	21683.6	21652.3	20781.2	15711.0
66°	3667.5	3743.5	4681.6	5798.4	9211.3	14321.7	19150.7	21746.1	21714.9	20580.2	15166.0
67.5°	3162.8	3185.1	3957.9	4744.1	7705.9	12709.1	18252.8	21460.2	21487.1	20026.3	14169.8
70°	2470.3	2465.9	2912.6	3301.2	5262.3	9041.5	15224.1	19660.0	19789.5	17935.7	12083.7
72.5°	1581.4	1527.8	1786.9	2019.2	3064.5	5248.9	11100.9	16023.7	16242.6	14089.4	9001.3
75°	942.6	889.0	951.5	1009.6	1469.7	2523.9	6526.5	10904.3	11114.3	9032.6	5356.1
77.5°	705.8	683.5	687.9	638.8	652.2	947.0	2979.6	5762.6	5914.5	3698.8	2032.6
80°	540.5	482.5	451.2	473.5	428.8	375.2	1107.9	1983.4	2077.2	875.6	424.4
82.5°	361.8	312.7	290.4	317.2	272.5	210.0	268.0	384.2	375.2	236.8	165.3
85°	187.6	160.8	160.8	160.8	138.5	102.7	116.1	156.4	156.4	125.1	98.3
87.5°	53.6	49.1	58.1	53.6	40.2	40.2	44.7	53.6	53.6	49.1	44.7
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°	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8	2005.8
2.5°	2001.3	1983.4	1934.3	1898.5	1862.8	1831.5	1795.8	1786.9	1769.0	1773.5	1764.5
5°	2014.7	1965.6	1880.7	1800.3	1737.7	1684.1	1617.1	1590.3	1554.6	1541.2	1532.2
7.5°	2032.6	1961.1	1836.0	1724.3	1617.1	1509.9	1402.7	1340.1	1299.9	1282.1	1268.7
10°	2072.8	1979.0	1813.7	1639.4	1456.3	1304.4	1197.2	1152.5	1125.7	1121.3	1116.8
12.5°	2126.4	2005.8	1791.3	1532.2	1291.0	1148.1	1081.1	1067.7	1063.2	1063.2	1058.7
15°	2206.8	2050.4	1755.6	1407.2	1161.5	1063.2	1031.9	1009.6	1000.6	1000.6	1000.6
17.5°	2287.2	2104.0	1702.0	1277.6	1072.1	1009.6	978.3	964.9	956.0	960.4	956.0
20°	2389.9	2166.6	1630.5	1165.9	1014.0	964.9	933.6	920.2	915.8	915.8	915.8
22.5°	2506.1	2238.0	1541.2	1081.1	964.9	920.2	889.0	875.6	866.6	871.1	871.1
25°	2662.4	2327.4	1447.4	996.2	915.8	875.6	839.8	822.0	822.0	826.4	830.9
27.5°	2863.5	2434.6	1353.6	942.6	871.1	830.9	790.7	772.8	777.3	786.2	786.2
30°	3158.3	2582.0	1259.7	884.5	822.0	777.3	741.5	723.7	732.6	750.5	750.5
32.5°	3578.2	2823.2	1179.3	817.5	750.5	701.3	665.6	652.2	674.5	710.3	710.3
35°	4328.7	3265.5	1130.2	750.5	674.5	616.5	571.8	558.4	589.7	634.3	634.3
37.5°	5333.8	3975.8	1148.1	692.4	612.0	545.0	495.9	478.0	500.3	540.5	553.9
40°	6455.0	4833.5	1304.4	643.3	553.9	486.9	437.8	419.9	433.3	451.2	455.7
42.5°	7576.3	5744.8	1599.2	607.5	509.3	437.8	393.1	379.7	388.6	393.1	397.6
45°	8693.1	6647.1	1970.0	585.2	469.1	397.6	352.9	352.9	357.4	357.4	357.4
47.5°	9751.8	7527.2	2358.7	580.7	433.3	357.4	321.6	326.1	326.1	330.6	330.6
50°	10752.5	8313.4	2751.8	594.1	402.0	321.6	294.8	294.8	294.8	299.3	294.8
52.5°	11587.8	9001.3	3162.8	616.5	370.8	294.8	268.0	268.0	268.0	272.5	268.0
55°	12378.5	9626.7	3582.7	647.7	344.0	272.5	245.7	236.8	236.8	241.2	236.8
57.5°	13021.8	10042.2	3980.2	652.2	321.6	250.2	227.8	214.4	214.4	214.4	214.4
60°	13048.6	9801.0	4096.4	571.8	294.8	227.8	205.5	187.6	192.1	192.1	192.1
62.5°	12195.4	8532.3	3292.3	428.8	263.6	205.5	187.6	169.8	169.8	169.8	169.8
65°	10520.2	6638.2	1929.8	339.5	227.8	183.2	165.3	151.9	151.9	151.9	147.4
66°	9733.9	5820.7	1478.6	308.2	214.4	178.7	160.8	147.4	142.9	138.5	138.5
67.5°	8451.9	4601.2	924.7	272.5	196.6	165.3	147.4	134.0	129.5	125.1	125.1
70°	6365.7	2921.5	451.2	210.0	169.8	142.9	129.5	116.1	111.7	107.2	102.7
72.5°	4467.2	1710.9	236.8	160.8	138.5	125.1	111.7	98.3	93.8	89.3	89.3
75°	2523.9	826.4	156.4	116.1	111.7	102.7	93.8	80.4	75.9	75.9	75.9
77.5°	956.0	285.9	107.2	84.9	89.3	80.4	67.0	67.0	62.5	67.0	62.5
80°	250.2	125.1	67.0	62.5	67.0	58.1	49.1	53.6	53.6	53.6	53.6
82.5°	134.0	71.5	40.2	44.7	40.2	40.2	31.3	35.7	40.2	35.7	40.2
85°	93.8	35.7	22.3	22.3	17.9	17.9	13.4	17.9	22.3	17.9	17.9
87.5°	49.1	13.4	13.4	13.4	13.4	8.9	4.5	0.0	4.5	4.5	4.5
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)