

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: P1211386

Luminaire Tested: **ARCH4-260-727-U-T3RE-HSS**

Issue Date: 11/5/2025

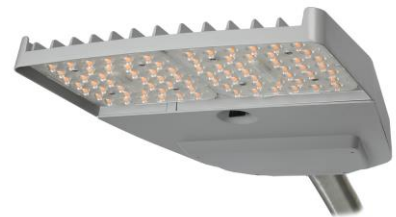
Test Information

Test Method: LM-79-08
Report Number: P1211386
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: ARCH4-260-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA 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: 25074 lumens
Efficiency: N/A
Efficacy: 96.7 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): 259.2
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

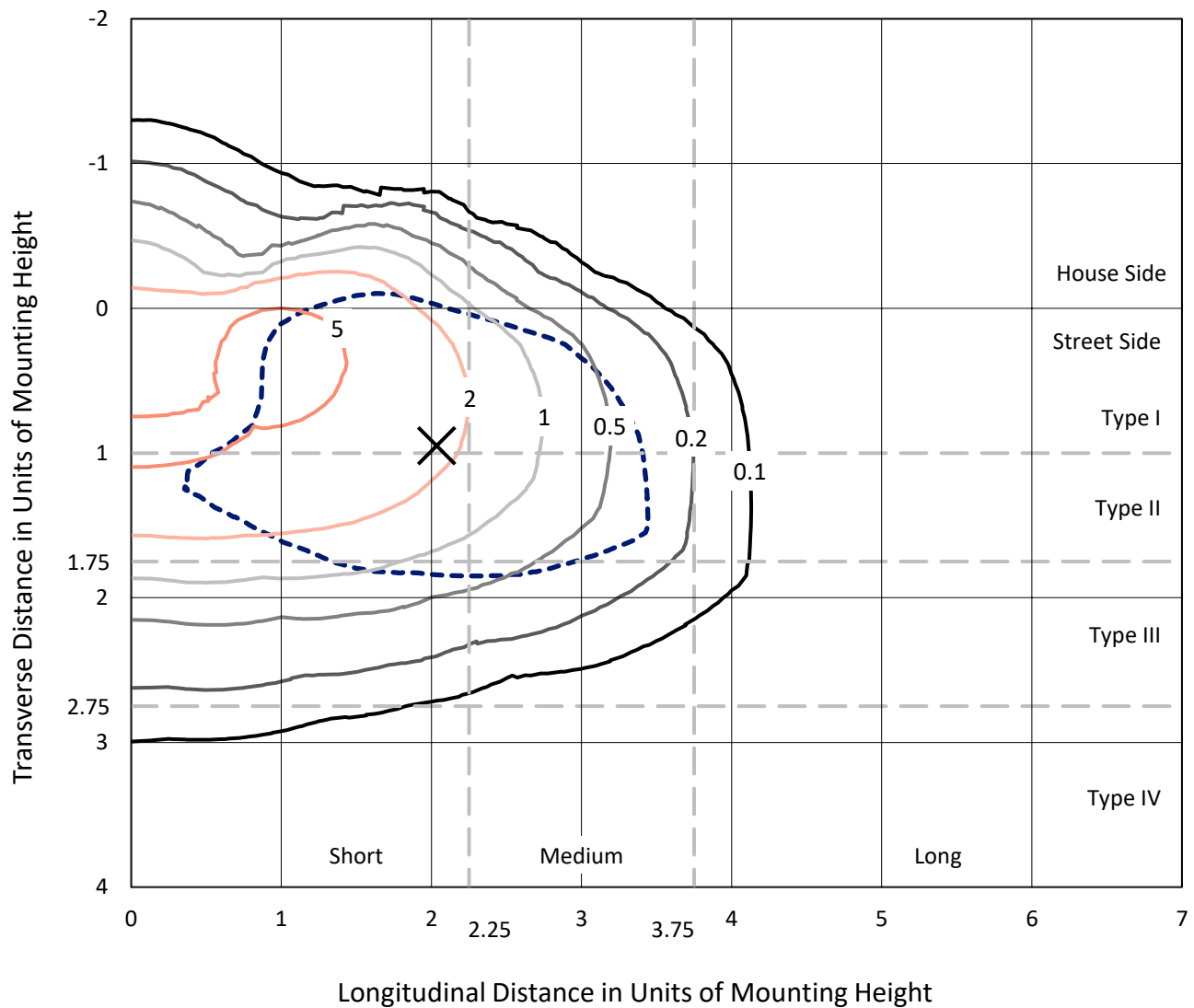


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Iso-Footcandle Lines of Horizontal Illumination

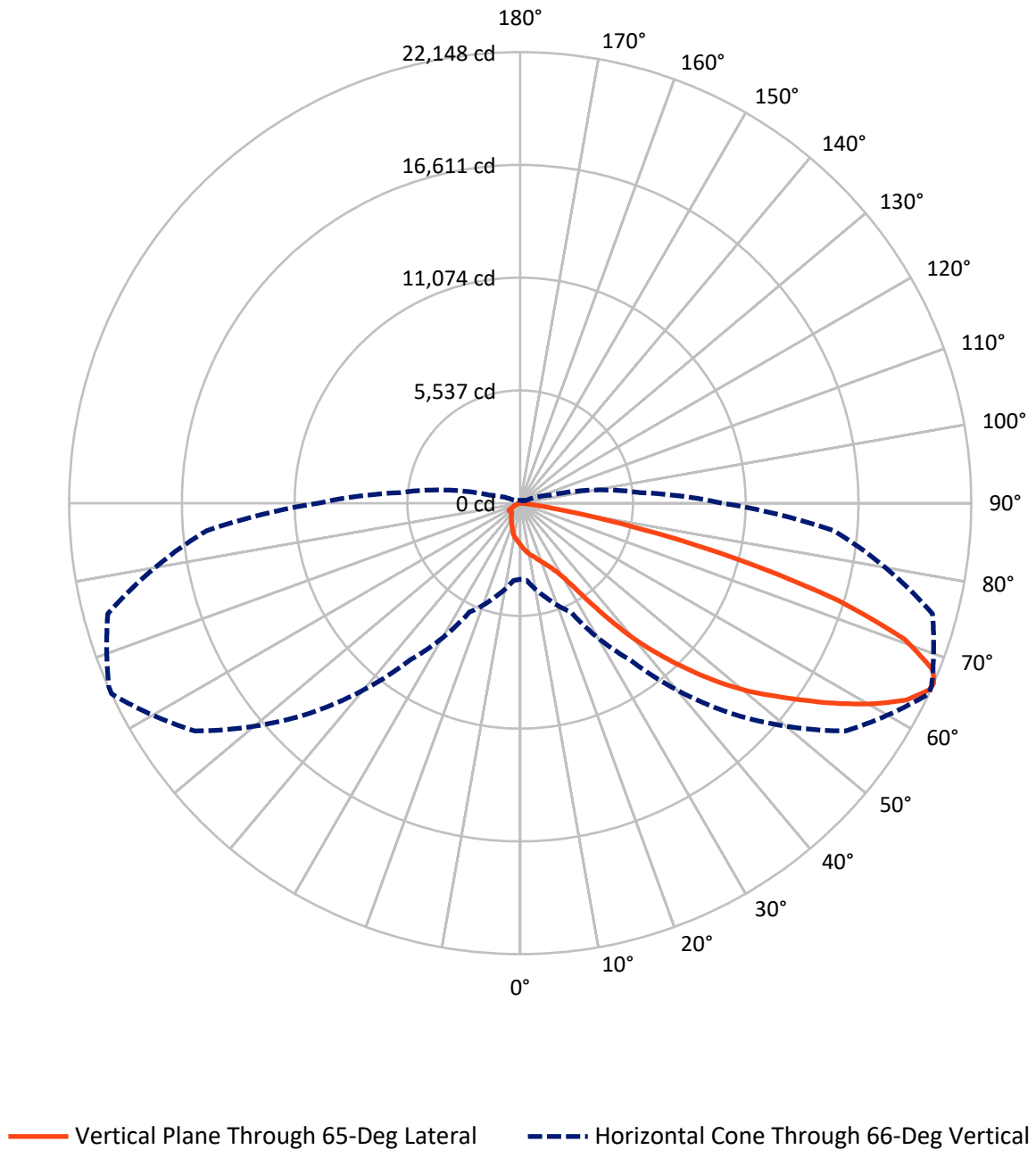
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2959.2	0.0	2959.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22114.7	0.0	22114.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	25074.0	0.0	25074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	0.8
10°-20°	573.3	2.3
20°-30°	1049.3	4.2
30°-40°	2132.2	8.5
40°-50°	4502.6	18.0
50°-60°	6922.0	27.6
60°-70°	6967.5	27.8
70°-80°	2603.4	10.4
80°-90°	130.0	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°	25074.0	100.0
0°-180°	25074.0	100.0

Coefficient of Utilization



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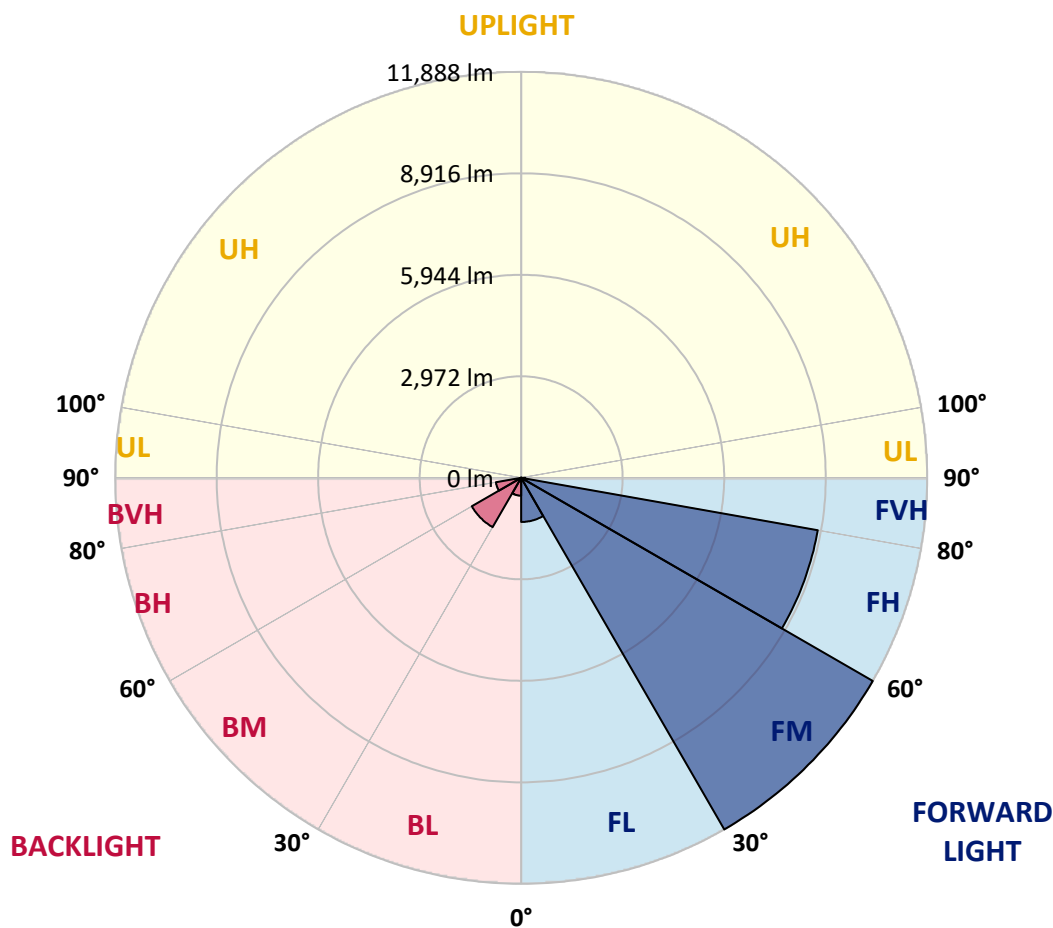
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.5	5.2			
FM	(30°-60°)	11888.3	47.4			
FH	(60°-80°)	8819.1	35.2			G4/12000
FVH	(80°-90°)	114.8	0.5			G2/225
BL	(0°-30°)	523.8	2.1	B2/1000		
BM	(30°-60°)	1668.4	6.7	B2/2500		
BH	(60°-80°)	751.7	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.3	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2329.5	2334.0	2324.9	2306.7	2288.5	2265.8	2229.4	2170.2	2161.1	2120.2	2074.7
5°	2488.7	2497.8	2484.1	2479.6	2470.5	2438.7	2388.6	2302.2	2293.1	2211.2	2106.5
7.5°	2543.3	2556.9	2547.8	2547.8	2547.8	2534.2	2511.4	2434.1	2420.5	2315.8	2156.6
10°	2584.2	2593.3	2588.8	2607.0	2620.6	2611.5	2597.9	2552.4	2538.7	2434.1	2224.8
12.5°	2647.9	2652.5	2657.0	2666.1	2688.9	2698.0	2693.4	2652.5	2643.4	2570.6	2311.3
15°	2707.1	2707.1	2711.6	2752.6	2784.4	2802.6	2807.2	2775.3	2766.2	2707.1	2420.5
17.5°	2761.7	2766.2	2779.9	2825.4	2880.0	2916.4	2939.1	2925.5	2911.8	2866.3	2547.8
20°	2843.6	2852.7	2866.3	2930.0	2984.6	3043.8	3089.3	3084.7	3080.2	3048.3	2698.0
22.5°	2984.6	2993.7	3016.5	3075.6	3130.2	3203.0	3280.4	3275.8	3262.2	3239.4	2875.4
25°	3198.5	3198.5	3212.1	3262.2	3330.4	3416.8	3489.6	3503.3	3489.6	3476.0	3098.4
27.5°	3466.9	3471.4	3471.4	3526.0	3589.7	3698.9	3789.9	3803.6	3803.6	3789.9	3398.6
30°	3840.0	3826.3	3817.2	3862.7	3931.0	4090.2	4249.4	4276.7	4263.1	4285.8	3821.8
32.5°	4481.5	4458.7	4381.4	4390.5	4431.4	4649.8	4918.3	5013.8	5009.2	5050.2	4504.2
35°	5368.7	5323.2	5209.4	5113.9	5109.3	5345.9	5755.4	6114.8	6110.3	6251.3	5541.6
37.5°	6369.6	6428.8	6214.9	6051.1	6001.1	6187.6	6715.4	7493.4	7534.3	7780.0	6901.9
40°	7707.2	7743.6	7470.6	7238.6	7002.0	7070.3	7766.4	8976.6	9049.4	9322.4	8262.3
42.5°	8872.0	8908.4	8749.1	8467.0	8166.8	8039.4	8826.5	10323.3	10382.5	10760.1	9663.6
45°	9663.6	9690.9	9745.5	9772.8	9431.6	9167.7	10123.1	11706.4	11779.2	12216.0	11033.1
47.5°	10282.4	10305.1	10414.3	10687.3	10619.1	10409.8	11442.6	13144.1	13162.3	13649.2	12366.1
50°	10569.0	10623.6	10892.0	11310.6	11610.9	11670.0	12875.7	14504.5	14554.6	15018.6	13626.4
52.5°	10250.5	10268.7	10946.6	11733.7	12338.8	12939.4	14313.4	15764.8	15910.4	16256.2	14759.3
55°	9176.8	9308.7	10337.0	11720.1	12912.1	14145.1	15851.2	17125.2	17257.1	17475.5	15755.7
57.5°	7930.2	8075.8	9326.9	11133.2	13157.8	15259.8	17275.3	18572.0	18663.0	18722.1	16670.2
60°	6851.9	6988.4	8275.9	10009.4	12912.1	16046.9	18599.3	20009.7	20087.0	19927.8	17129.7
62.5°	5527.9	5664.4	6961.1	8521.6	11947.6	16206.1	19582.0	21288.2	21320.0	20887.8	16847.6
65°	4167.5	4258.5	5341.4	6679.0	10259.6	15359.9	19804.9	22084.4	22052.5	21165.3	16001.4
66°	3735.3	3812.7	4768.1	5905.5	9381.5	14586.4	19504.7	22148.1	22116.2	20960.6	15446.3
67.5°	3221.2	3244.0	4031.1	4831.8	7848.3	12944.0	18590.2	21856.9	21884.2	20396.4	14431.7
70°	2516.0	2511.4	2966.4	3362.2	5359.6	9208.6	15505.5	20023.3	20155.3	18267.1	12307.0
72.5°	1610.6	1556.0	1819.9	2056.5	3121.1	5345.9	11306.1	16319.9	16542.8	14349.8	9167.7
75°	960.0	905.4	969.1	1028.2	1496.9	2570.6	6647.1	11105.9	11319.7	9199.5	5455.1
77.5°	718.9	696.1	700.7	650.6	664.3	964.5	3034.7	5869.1	6023.8	3767.2	2070.1
80°	550.5	491.4	459.5	482.3	436.8	382.2	1128.3	2020.1	2115.6	891.7	432.2
82.5°	368.5	318.5	295.7	323.0	277.5	213.8	273.0	391.3	382.2	241.1	168.3
85°	191.1	163.8	163.8	163.8	141.0	104.6	118.3	159.2	159.2	127.4	100.1
87.5°	54.6	50.0	59.1	54.6	40.9	40.9	45.5	54.6	54.6	50.0	45.5
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°	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8	2042.8
2.5°	2038.3	2020.1	1970.0	1933.6	1897.2	1865.4	1829.0	1819.9	1801.7	1806.2	1797.1
5°	2051.9	2001.9	1915.4	1833.5	1769.8	1715.2	1647.0	1619.7	1583.3	1569.7	1560.6
7.5°	2070.1	1997.3	1869.9	1756.2	1647.0	1537.8	1428.6	1364.9	1324.0	1305.8	1292.1
10°	2111.1	2015.5	1847.2	1669.7	1483.2	1328.5	1219.3	1173.8	1146.5	1142.0	1137.4
12.5°	2165.7	2042.8	1824.4	1560.6	1314.9	1169.3	1101.0	1087.4	1082.8	1082.8	1078.3
15°	2247.6	2088.3	1788.0	1433.2	1182.9	1082.8	1051.0	1028.2	1019.1	1019.1	1019.1
17.5°	2329.5	2142.9	1733.4	1301.2	1091.9	1028.2	996.4	982.7	973.6	978.2	973.6
20°	2434.1	2206.6	1660.6	1187.5	1032.8	982.7	950.9	937.2	932.7	932.7	932.7
22.5°	2552.4	2279.4	1569.7	1101.0	982.7	937.2	905.4	891.7	882.6	887.2	887.2
25°	2711.6	2370.4	1474.1	1014.6	932.7	891.7	855.3	837.1	837.1	841.7	846.2
27.5°	2916.4	2479.6	1378.6	960.0	887.2	846.2	805.3	787.1	791.7	800.8	800.8
30°	3216.7	2629.7	1283.0	900.8	837.1	791.7	755.3	737.1	746.2	764.4	764.4
32.5°	3644.3	2875.4	1201.1	832.6	764.4	714.3	677.9	664.3	687.0	723.4	723.4
35°	4408.7	3325.8	1151.1	764.4	687.0	627.9	582.4	568.7	600.6	646.1	646.1
37.5°	5432.4	4049.3	1169.3	705.2	623.3	555.1	505.0	486.8	509.6	550.5	564.2
40°	6574.3	4922.8	1328.5	655.2	564.2	495.9	445.9	427.7	441.3	459.5	464.1
42.5°	7716.3	5850.9	1628.8	618.8	518.7	445.9	400.4	386.7	395.8	400.4	404.9
45°	8853.8	6770.0	2006.4	596.0	477.7	404.9	359.4	359.4	364.0	364.0	364.0
47.5°	9932.0	7666.3	2402.3	591.5	441.3	364.0	327.6	332.1	332.1	336.7	336.7
50°	10951.2	8467.0	2802.6	605.1	409.5	327.6	300.3	300.3	300.3	304.8	300.3
52.5°	11802.0	9167.7	3221.2	627.9	377.6	300.3	273.0	273.0	273.0	277.5	273.0
55°	12607.3	9804.7	3648.9	659.7	350.3	277.5	250.2	241.1	241.1	245.7	241.1
57.5°	13262.4	10227.8	4053.8	664.3	327.6	254.8	232.0	218.4	218.4	218.4	218.4
60°	13289.7	9982.1	4172.1	582.4	300.3	232.0	209.3	191.1	195.6	195.6	195.6
62.5°	12420.7	8690.0	3353.1	436.8	268.4	209.3	191.1	172.9	172.9	172.9	172.9
65°	10714.6	6760.9	1965.5	345.8	232.0	186.5	168.3	154.7	154.7	154.7	150.1
66°	9913.8	5928.3	1506.0	313.9	218.4	182.0	163.8	150.1	145.6	141.0	141.0
67.5°	8608.1	4686.2	941.8	277.5	200.2	168.3	150.1	136.5	131.9	127.4	127.4
70°	6483.4	2975.5	459.5	213.8	172.9	145.6	131.9	118.3	113.7	109.2	104.6
72.5°	4549.7	1742.5	241.1	163.8	141.0	127.4	113.7	100.1	95.5	91.0	91.0
75°	2570.6	841.7	159.2	118.3	113.7	104.6	95.5	81.9	77.3	77.3	77.3
77.5°	973.6	291.2	109.2	86.4	91.0	81.9	68.2	68.2	63.7	68.2	63.7
80°	254.8	127.4	68.2	63.7	68.2	59.1	50.0	54.6	54.6	54.6	54.6
82.5°	136.5	72.8	40.9	45.5	40.9	40.9	31.8	36.4	40.9	36.4	40.9
85°	95.5	36.4	22.7	22.7	18.2	18.2	13.6	18.2	22.7	18.2	18.2
87.5°	50.0	13.6	13.6	13.6	13.6	9.1	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)