

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: P1211358

Luminaire Tested: **ARCH4-250-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211358
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: ARCH4-250-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA 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: 25271 lumens
Efficiency: N/A
Efficacy: 101.3 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): 249.5
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



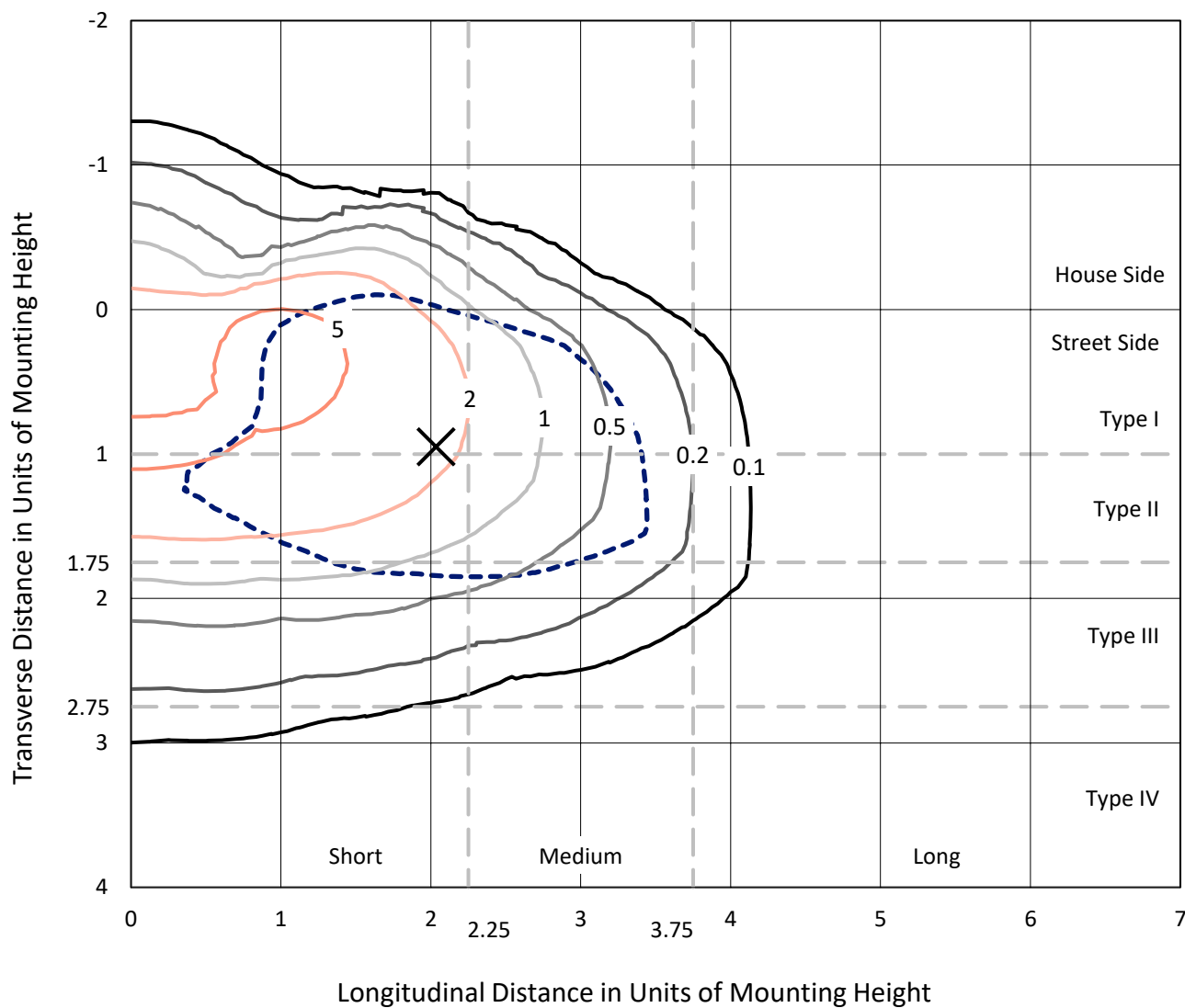
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

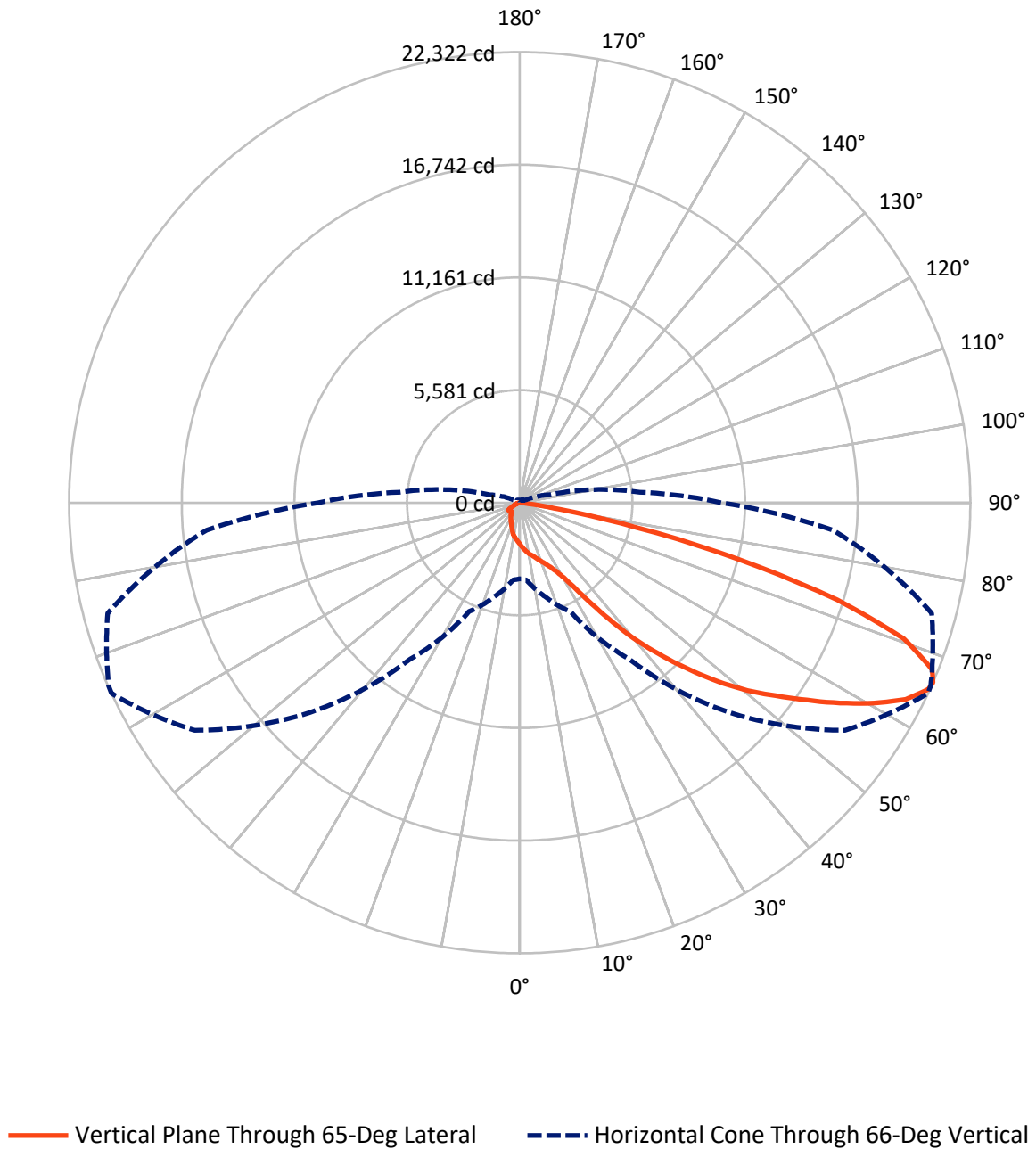
--- 1/2 Max cd



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	2982.5	0.0	2982.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22288.5	0.0	22288.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	25271.0	0.0	25271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	0.8
10°-20°	577.8	2.3
20°-30°	1057.6	4.2
30°-40°	2148.9	8.5
40°-50°	4538.0	18.0
50°-60°	6976.4	27.6
60°-70°	7022.2	27.8
70°-80°	2623.9	10.4
80°-90°	131.1	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°	25271.0	100.0
0°-180°	25271.0	100.0

Coefficient of Utilization



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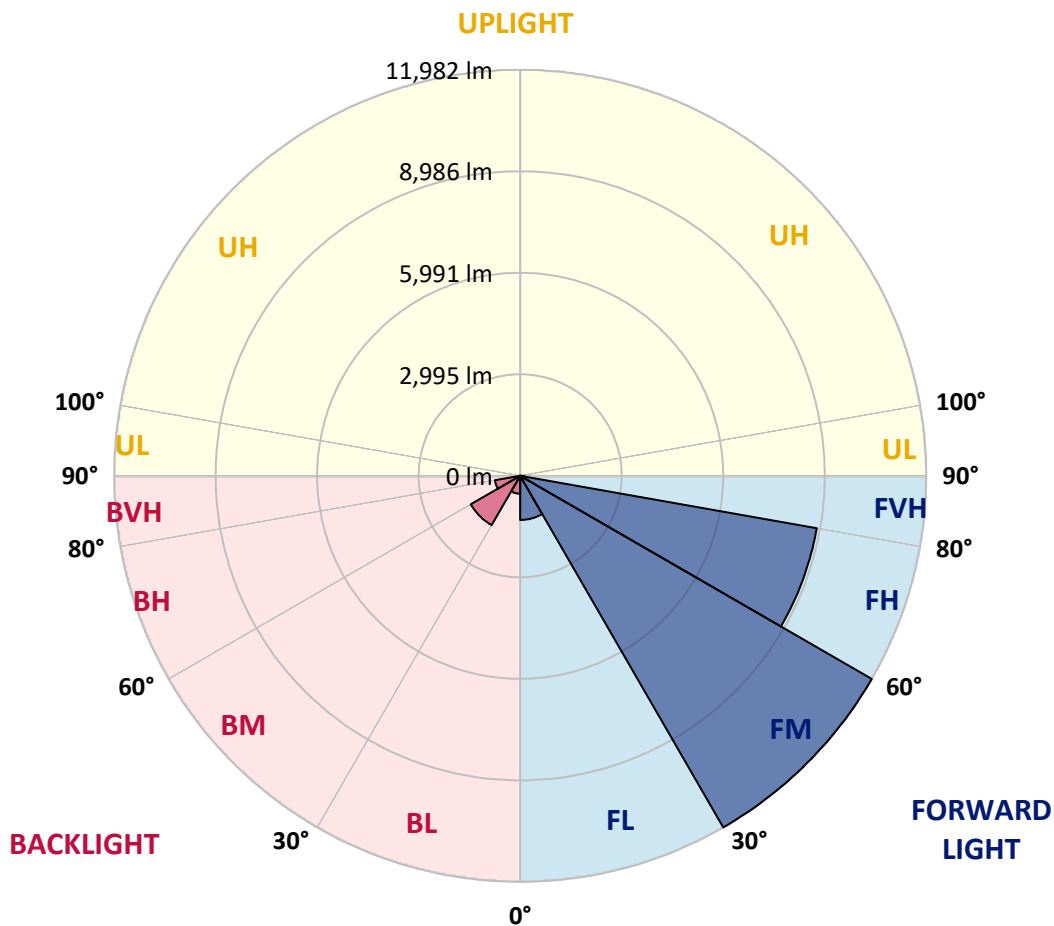
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.7	5.2			
FM	(30°-60°)	11981.7	47.4			
FH	(60°-80°)	8888.4	35.2			G4/12000
FVH	(80°-90°)	115.7	0.5			G2/225
BL	(0°-30°)	527.9	2.1	B2/1000		
BM	(30°-60°)	1681.5	6.7	B2/2500		
BH	(60°-80°)	757.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	15.4	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°	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9
2.5°	2347.8	2352.3	2343.2	2324.8	2306.5	2283.6	2246.9	2187.3	2178.1	2136.8	2091.0
5°	2508.3	2517.4	2503.7	2499.1	2489.9	2457.8	2407.4	2320.2	2311.1	2228.5	2123.1
7.5°	2563.3	2577.0	2567.9	2567.9	2567.9	2554.1	2531.2	2453.2	2439.5	2334.0	2173.5
10°	2604.5	2613.7	2609.1	2627.5	2641.2	2632.1	2618.3	2572.4	2558.7	2453.2	2242.3
12.5°	2668.7	2673.3	2677.9	2687.1	2710.0	2719.2	2714.6	2673.3	2664.2	2590.8	2329.4
15°	2728.4	2728.4	2732.9	2774.2	2806.3	2824.6	2829.2	2797.1	2788.0	2728.4	2439.5
17.5°	2783.4	2788.0	2801.7	2847.6	2902.6	2939.3	2962.2	2948.5	2934.7	2888.8	2567.9
20°	2865.9	2875.1	2888.8	2953.0	3008.1	3067.7	3113.5	3108.9	3104.4	3072.3	2719.2
22.5°	3008.1	3017.2	3040.2	3099.8	3154.8	3228.2	3306.1	3301.5	3287.8	3264.9	2898.0
25°	3223.6	3223.6	3237.3	3287.8	3356.6	3443.7	3517.1	3530.8	3517.1	3503.3	3122.7
27.5°	3494.1	3498.7	3498.7	3553.7	3617.9	3728.0	3819.7	3833.5	3833.5	3819.7	3425.3
30°	3870.1	3856.4	3847.2	3893.1	3961.8	4122.3	4282.8	4310.3	4296.6	4319.5	3851.8
32.5°	4516.7	4493.8	4415.8	4425.0	4466.2	4686.3	4956.9	5053.2	5048.6	5089.9	4539.6
35°	5410.9	5365.0	5250.4	5154.1	5149.5	5387.9	5800.6	6162.9	6158.3	6300.4	5585.1
37.5°	6419.7	6479.3	6263.8	6098.7	6048.2	6236.2	6768.2	7552.3	7593.5	7841.2	6956.2
40°	7767.8	7804.5	7529.3	7295.5	7057.0	7125.8	7827.4	9047.1	9120.5	9395.6	8327.2
42.5°	8941.7	8978.3	8817.9	8533.6	8230.9	8102.5	8895.8	10404.4	10464.0	10844.6	9739.5
45°	9739.5	9767.0	9822.1	9849.6	9505.7	9239.7	10202.7	11798.4	11871.8	12312.0	11119.8
47.5°	10363.2	10386.1	10496.1	10771.3	10702.5	10491.6	11532.5	13247.4	13265.8	13756.4	12463.3
50°	10652.0	10707.1	10977.6	11399.5	11702.1	11761.7	12976.9	14618.5	14668.9	15136.6	13733.5
52.5°	10331.1	10349.4	11032.6	11825.9	12435.8	13041.1	14425.9	15888.6	16035.4	16383.9	14875.3
55°	9248.9	9381.9	10418.2	11812.2	13013.6	14256.2	15975.8	17259.7	17392.7	17612.8	15879.5
57.5°	7992.5	8139.2	9400.2	11220.6	13261.2	15379.7	17411.0	18717.9	18809.6	18869.2	16801.2
60°	6905.7	7043.3	8341.0	10088.0	13013.6	16172.9	18745.4	20166.9	20244.8	20084.4	17264.3
62.5°	5571.3	5708.9	7015.8	8588.6	12041.4	16333.4	19735.9	21455.4	21487.5	21051.9	16980.0
65°	4200.3	4292.0	5383.3	6731.5	10340.2	15480.5	19960.5	22257.9	22225.8	21331.6	16127.1
66°	3764.7	3842.6	4805.6	5951.9	9455.2	14701.0	19657.9	22322.1	22290.0	21125.3	15567.7
67.5°	3246.5	3269.4	4062.7	4869.8	7909.9	13045.7	18736.2	22028.6	22056.1	20556.7	14545.1
70°	2535.8	2531.2	2989.7	3388.7	5401.7	9281.0	15627.3	20180.6	20313.6	18410.7	12403.7
72.5°	1623.3	1568.2	1834.2	2072.6	3145.6	5387.9	11394.9	16448.1	16672.8	14462.6	9239.7
75°	967.5	912.5	976.7	1036.3	1508.6	2590.8	6699.4	11193.1	11408.6	9271.8	5498.0
77.5°	724.5	701.6	706.2	655.7	669.5	972.1	3058.5	5915.3	6071.2	3796.8	2086.4
80°	554.8	495.2	463.1	486.1	440.2	385.2	1137.2	2035.9	2132.2	898.8	435.6
82.5°	371.4	321.0	298.1	325.6	279.7	215.5	275.1	394.4	385.2	243.0	169.7
85°	192.6	165.1	165.1	165.1	142.1	105.5	119.2	160.5	160.5	128.4	100.9
87.5°	55.0	50.4	59.6	55.0	41.3	41.3	45.9	55.0	55.0	50.4	45.9
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°	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9	2058.9
2.5°	2054.3	2035.9	1985.5	1948.8	1912.1	1880.0	1843.4	1834.2	1815.8	1820.4	1811.3
5°	2068.0	2017.6	1930.5	1847.9	1783.7	1728.7	1659.9	1632.4	1595.7	1582.0	1572.8
7.5°	2086.4	2013.0	1884.6	1770.0	1659.9	1549.9	1439.8	1375.6	1334.4	1316.0	1302.3
10°	2127.7	2031.4	1861.7	1682.9	1494.9	1339.0	1228.9	1183.1	1155.5	1151.0	1146.4
12.5°	2182.7	2058.9	1838.8	1572.8	1325.2	1178.5	1109.7	1095.9	1091.3	1091.3	1086.8
15°	2265.2	2104.7	1802.1	1444.4	1192.2	1091.3	1059.2	1036.3	1027.1	1027.1	1027.1
17.5°	2347.8	2159.8	1747.1	1311.4	1100.5	1036.3	1004.2	990.5	981.3	985.9	981.3
20°	2453.2	2224.0	1673.7	1196.8	1040.9	990.5	958.4	944.6	940.0	940.0	940.0
22.5°	2572.4	2297.3	1582.0	1109.7	990.5	944.6	912.5	898.8	889.6	894.2	894.2
25°	2732.9	2389.0	1485.7	1022.6	940.0	898.8	862.1	843.7	843.7	848.3	852.9
27.5°	2939.3	2499.1	1389.4	967.5	894.2	852.9	811.6	793.3	797.9	807.0	807.0
30°	3241.9	2650.4	1293.1	907.9	843.7	797.9	761.2	742.8	752.0	770.4	770.4
32.5°	3673.0	2898.0	1210.6	839.1	770.4	719.9	683.2	669.5	692.4	729.1	729.1
35°	4443.3	3352.0	1160.1	770.4	692.4	632.8	586.9	573.2	605.3	651.1	651.1
37.5°	5475.0	4081.1	1178.5	710.7	628.2	559.4	509.0	490.6	513.6	554.8	568.6
40°	6626.0	4961.5	1339.0	660.3	568.6	499.8	449.4	431.0	444.8	463.1	467.7
42.5°	7777.0	5896.9	1641.6	623.6	522.7	449.4	403.5	389.8	398.9	403.5	408.1
45°	8923.3	6823.2	2022.2	600.7	481.5	408.1	362.3	362.3	366.8	366.8	366.8
47.5°	10010.1	7726.5	2421.1	596.1	444.8	366.8	330.2	334.7	334.7	339.3	339.3
50°	11037.2	8533.6	2824.6	609.9	412.7	330.2	302.6	302.6	302.6	307.2	302.6
52.5°	11894.7	9239.7	3246.5	632.8	380.6	302.6	275.1	275.1	275.1	279.7	275.1
55°	12706.3	9881.7	3677.5	664.9	353.1	279.7	252.2	243.0	243.0	247.6	243.0
57.5°	13366.6	10308.1	4085.7	669.5	330.2	256.8	233.9	220.1	220.1	220.1	220.1
60°	13394.2	10060.5	4204.9	586.9	302.6	233.9	210.9	192.6	192.6	197.2	197.2
62.5°	12518.3	8758.2	3379.5	440.2	270.5	210.9	192.6	174.2	174.2	174.2	174.2
65°	10798.8	6814.0	1980.9	348.5	233.9	188.0	169.7	155.9	155.9	155.9	151.3
66°	9991.7	5974.9	1517.8	316.4	220.1	183.4	165.1	151.3	146.7	142.1	142.1
67.5°	8675.7	4723.0	949.2	279.7	201.8	169.7	151.3	137.6	133.0	128.4	128.4
70°	6534.3	2998.9	463.1	215.5	174.2	146.7	133.0	119.2	114.6	110.1	105.5
72.5°	4585.5	1756.2	243.0	165.1	142.1	128.4	114.6	100.9	96.3	91.7	91.7
75°	2590.8	848.3	160.5	119.2	114.6	105.5	96.3	82.5	78.0	78.0	78.0
77.5°	981.3	293.5	110.1	87.1	91.7	82.5	68.8	68.8	64.2	68.8	64.2
80°	256.8	128.4	68.8	64.2	68.8	59.6	50.4	55.0	55.0	55.0	55.0
82.5°	137.6	73.4	41.3	45.9	41.3	41.3	32.1	36.7	41.3	36.7	41.3
85°	96.3	36.7	22.9	22.9	18.3	18.3	13.8	18.3	22.9	18.3	18.3
87.5°	50.4	13.8	13.8	13.8	13.8	9.2	4.6	0.0	4.6	4.6	4.6
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)