

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: P1211492

Luminaire Tested: **ARCH4-290-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211492
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: ARCH4-290-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA 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: 29860 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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



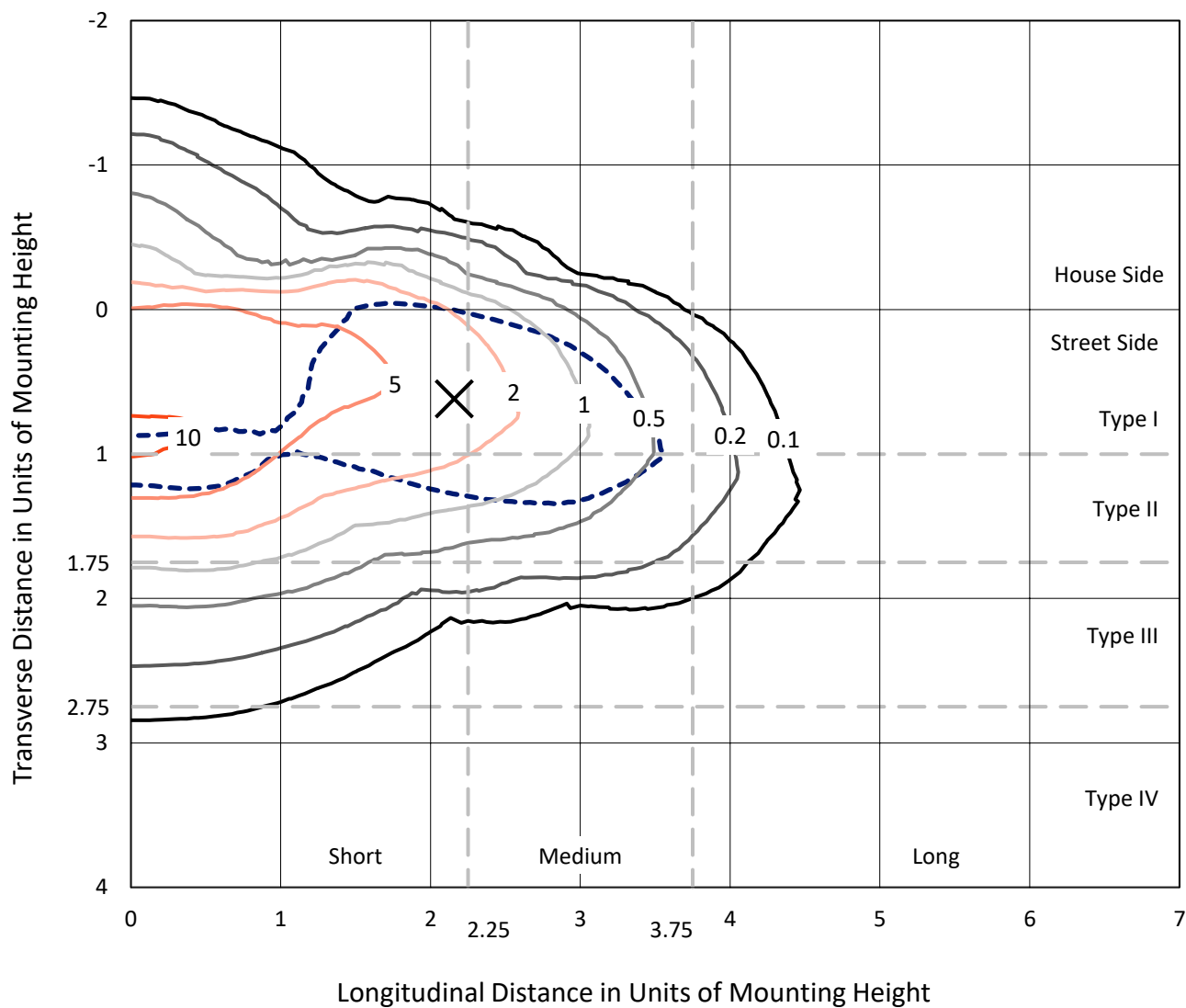
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

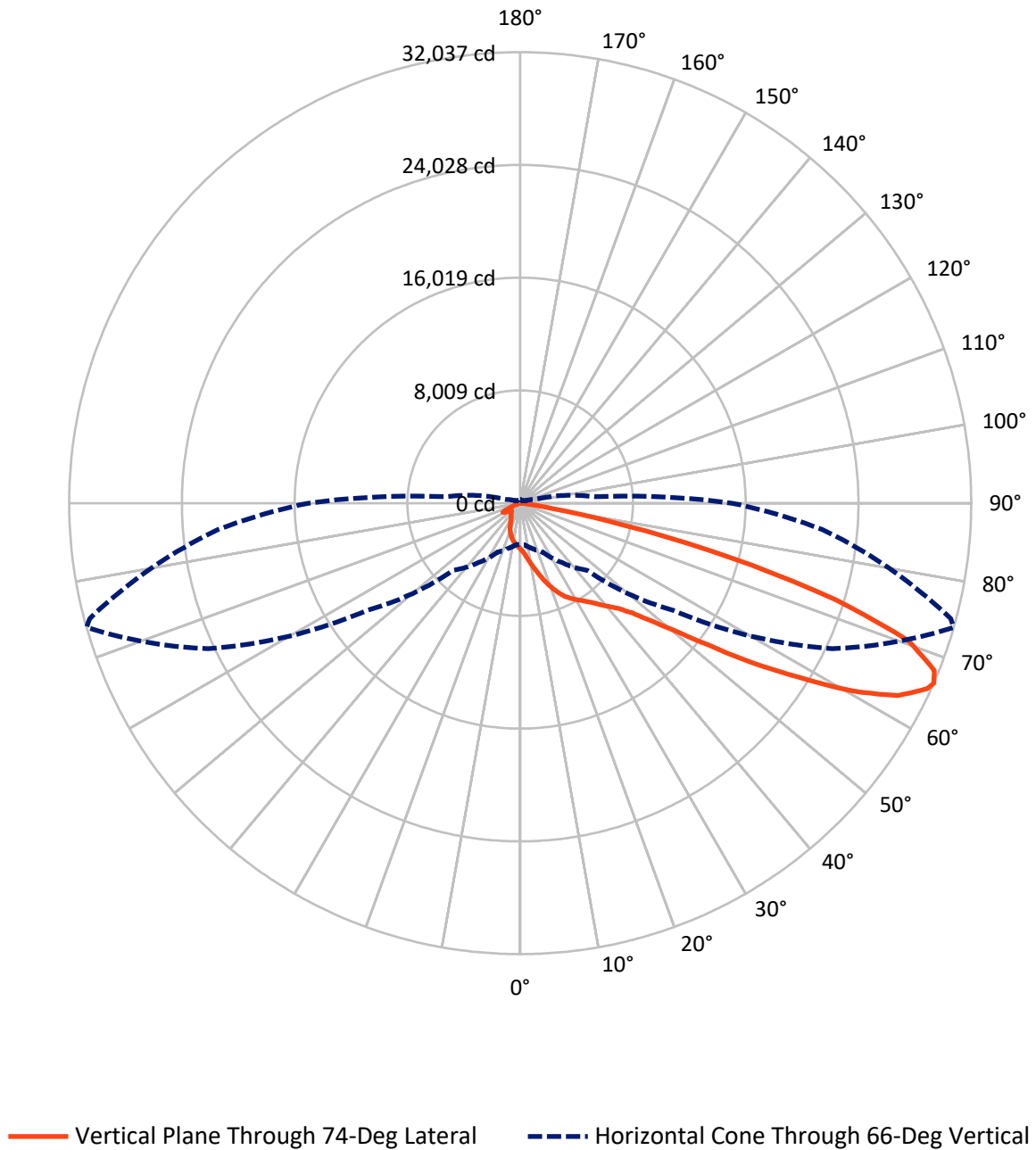


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2927.2	0.0	2927.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	26932.8	0.0	26932.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	29860.0	0.0	29860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	1.1
10°-20°	1019.9	3.4
20°-30°	1946.5	6.5
30°-40°	3411.7	11.4
40°-50°	5850.1	19.6
50°-60°	7608.5	25.5
60°-70°	6887.6	23.1
70°-80°	2657.6	8.9
80°-90°	159.9	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°	29860.0	100.0
0°-180°	29860.0	100.0

Coefficient of Utilization



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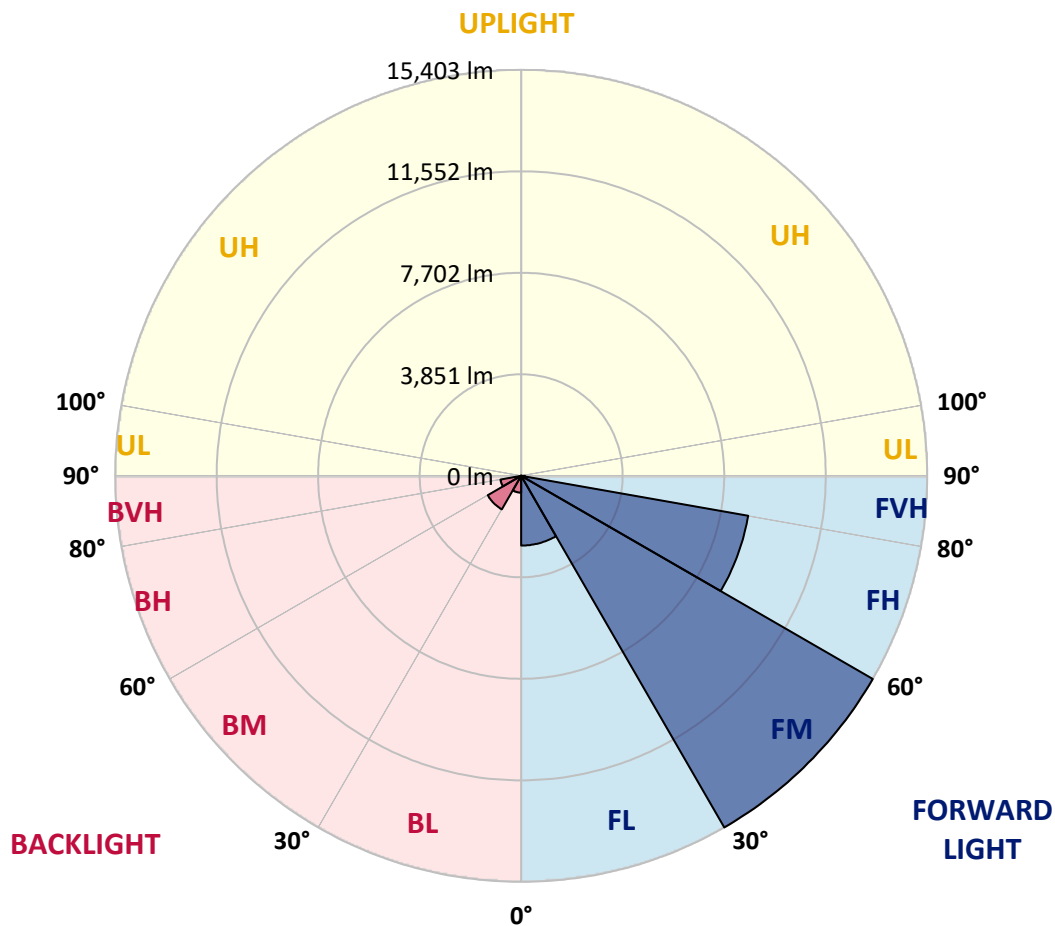
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2646.0	8.9			
FM	(30°-60°)	15403.3	51.6			
FH	(60°-80°)	8745.0	29.3			G4/12000
FVH	(80°-90°)	138.5	0.5			G2/225
BL	(0°-30°)	638.5	2.1	B2/1000		
BM	(30°-60°)	1467.0	4.9	B2/2500		
BH	(60°-80°)	800.3	2.7	B2/1000		G2/1000
BVH	(80°-90°)	21.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3913.5	3881.4	3822.4	3817.0	3768.8	3709.8	3607.9	3500.7	3425.7	3414.9	3323.8
5°	4685.5	4669.4	4610.4	4572.9	4481.8	4342.4	4106.5	3870.6	3672.3	3650.8	3447.1
7.5°	4889.2	4899.9	4910.7	4948.2	4916.0	4851.7	4674.8	4342.4	4031.5	3983.2	3629.4
10°	4921.4	4910.7	4910.7	4958.9	5050.0	5141.2	5119.7	4835.6	4433.5	4374.6	3881.4
12.5°	5269.8	5285.9	5248.4	5227.0	5210.9	5259.1	5420.0	5296.7	4857.0	4808.8	4186.9
15°	5720.2	5714.8	5661.2	5661.2	5612.9	5532.5	5634.4	5725.5	5366.3	5307.4	4535.4
17.5°	6047.2	6068.6	6063.3	6095.4	6079.4	5972.1	5918.5	6106.2	5891.7	5816.7	4932.1
20°	6309.9	6368.8	6390.3	6492.1	6540.4	6465.3	6326.0	6443.9	6395.7	6326.0	5334.2
22.5°	6588.6	6636.9	6674.4	6851.3	6985.4	6969.3	6792.4	6765.6	6883.5	6819.2	5730.9
25°	6867.4	6888.9	7001.4	7215.9	7430.3	7483.9	7301.7	7092.6	7323.1	7264.1	6084.7
27.5°	7173.0	7183.7	7317.7	7580.4	7880.6	7993.2	7848.5	7462.5	7660.8	7660.8	6406.4
30°	7730.5	7837.8	7891.4	8127.2	8389.9	8545.4	8373.9	7853.8	7961.1	8009.3	6744.1
32.5°	8931.4	8947.5	8931.4	9033.3	9086.9	9178.0	8979.6	8293.4	8266.6	8320.2	7076.5
35°	10764.9	10700.5	10529.0	10378.9	10067.9	9896.4	9639.0	8856.3	8641.9	8717.0	7403.5
37.5°	12989.7	12898.5	12507.2	12046.1	11381.4	10695.2	10373.5	9542.5	9119.0	9215.5	7757.3
40°	15112.6	15053.6	14587.2	14019.0	12882.4	11708.4	11027.5	10121.5	9649.8	9687.3	8116.5
42.5°	16860.3	16849.6	16458.2	15863.1	14405.0	12802.0	11799.5	10689.8	10207.3	10266.3	8491.8
45°	18184.5	18082.6	17793.1	17364.2	15879.2	13938.6	12732.3	11552.9	11102.6	11172.3	9054.7
47.5°	18184.5	18200.5	18388.2	18345.3	16908.5	15005.4	13750.9	12641.2	12426.8	12491.1	9982.1
50°	16704.8	16854.9	17691.2	18393.5	17444.6	15836.3	14849.9	14002.9	14222.7	14319.2	11601.2
52.5°	13777.7	14029.7	15482.5	17085.4	17047.9	16254.5	15986.4	15734.5	16720.9	16892.5	13992.2
55°	10470.0	10636.2	12528.6	14635.5	15321.7	15911.4	16978.2	17932.5	20028.6	19991.1	16420.7
57.5°	7821.7	7977.1	9606.9	11944.3	12850.3	14426.4	17487.5	20446.8	23309.6	23454.3	18699.1
60°	5752.3	5870.3	7258.8	9178.0	10486.1	12153.3	17283.8	22923.6	27089.0	26922.9	20709.5
62.5°	4256.6	4321.0	5323.5	6572.6	8309.5	9901.7	16002.5	24617.6	30107.3	29769.5	21829.9
65°	3291.6	3313.1	3833.1	4497.9	6041.8	7698.4	14094.0	24875.0	31774.5	31415.4	21808.5
66°	2932.5	2948.5	3329.2	3843.8	5141.2	6738.8	13257.7	24462.2	32037.2	31656.6	21540.4
67.5°	2460.7	2450.0	2675.1	3012.9	3859.9	5200.2	11772.7	23255.9	31726.3	31533.3	20682.7
70°	1822.7	1828.1	1940.7	2021.1	2257.0	2878.8	8502.5	20173.4	29238.8	29228.1	18329.2
72.5°	1351.0	1367.1	1452.8	1468.9	1409.9	1560.0	4899.9	16045.4	23390.0	23395.3	13702.7
75°	1013.2	1040.0	1066.8	1077.6	1023.9	986.4	2214.1	10797.0	15386.0	15273.4	7757.3
77.5°	772.0	782.7	804.1	788.1	777.3	680.8	922.1	5264.5	7596.5	6921.0	2514.3
80°	562.9	562.9	584.3	562.9	557.5	487.8	503.9	1688.7	2230.2	1854.9	541.5
82.5°	353.8	348.5	364.5	359.2	348.5	310.9	294.9	471.8	514.7	461.0	262.7
85°	198.4	193.0	187.6	182.3	166.2	139.4	160.8	176.9	235.9	241.2	187.6
87.5°	69.7	69.7	64.3	59.0	48.2	48.2	59.0	59.0	85.8	85.8	96.5
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°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3280.9	3222.0	3136.2	3023.6	2943.2	2862.8	2777.0	2728.7	2659.0	2643.0	2664.4
5°	3339.9	3232.7	3018.2	2782.3	2578.6	2396.4	2224.8	2122.9	2021.1	1983.6	1999.6
7.5°	3463.2	3280.9	2916.4	2535.7	2198.0	1924.6	1720.9	1602.9	1511.8	1474.3	1485.0
10°	3645.5	3366.7	2819.9	2257.0	1822.7	1533.2	1361.7	1286.6	1233.0	1211.6	1216.9
12.5°	3865.3	3490.0	2696.6	1978.2	1501.1	1249.1	1168.7	1152.6	1141.9	1131.2	1136.5
15°	4111.9	3597.2	2551.8	1704.8	1249.1	1109.7	1082.9	1077.6	1072.2	1072.2	1072.2
17.5°	4369.2	3693.7	2391.0	1447.5	1088.3	1023.9	1007.9	1007.9	1007.9	1013.2	1013.2
20°	4610.4	3768.8	2203.4	1216.9	997.1	943.5	932.8	932.8	938.2	943.5	943.5
22.5°	4846.3	3800.9	1983.6	1056.1	922.1	873.8	857.8	857.8	857.8	863.1	863.1
25°	5050.0	3800.9	1763.8	954.3	857.8	809.5	788.1	782.7	788.1	788.1	788.1
27.5°	5221.6	3784.9	1549.3	884.6	793.4	745.2	723.7	718.4	729.1	734.5	734.5
30°	5403.9	3763.4	1377.8	820.2	739.8	691.6	670.1	670.1	686.2	707.6	707.6
32.5°	5580.8	3779.5	1243.7	766.6	686.2	648.7	627.2	632.6	664.8	696.9	696.9
35°	5768.4	3811.7	1163.3	729.1	648.7	611.2	595.1	611.2	643.3	675.5	675.5
37.5°	5956.1	3849.2	1115.1	696.9	616.5	579.0	568.3	589.7	627.2	659.4	664.8
40°	6154.4	3881.4	1061.5	664.8	595.1	552.2	546.8	568.3	616.5	648.7	654.0
42.5°	6401.0	3945.7	997.1	638.0	573.6	520.0	525.4	541.5	589.7	638.0	643.3
45°	6883.5	4149.4	932.8	611.2	546.8	503.9	493.2	503.9	557.5	611.2	621.9
47.5°	7789.5	4610.4	863.1	584.3	520.0	493.2	450.3	461.0	509.3	568.3	573.6
50°	9526.5	5591.5	825.6	557.5	498.6	455.7	407.4	407.4	445.0	498.6	498.6
52.5°	12233.8	7349.9	847.0	536.1	471.8	418.2	369.9	364.5	386.0	423.5	423.5
55°	15155.5	9279.9	927.4	514.7	439.6	396.7	343.1	316.3	332.4	353.8	353.8
57.5°	17471.4	10250.2	1147.3	503.9	402.1	380.6	310.9	273.4	289.5	310.9	310.9
60°	18490.0	9681.9	1393.9	514.7	375.3	353.8	278.8	241.2	268.0	289.5	294.9
62.5°	17664.4	7971.8	1495.7	487.8	337.7	316.3	273.4	225.2	257.3	273.4	278.8
65°	15879.2	6057.9	1168.7	423.5	310.9	273.4	246.6	214.4	241.2	257.3	257.3
66°	15032.2	5280.6	997.1	391.4	300.2	257.3	235.9	214.4	235.9	246.6	252.0
67.5°	13718.8	4165.5	739.8	343.1	278.8	235.9	219.8	203.7	225.2	235.9	235.9
70°	10727.3	2482.1	445.0	268.0	241.2	209.1	198.4	187.6	203.7	209.1	209.1
72.5°	6717.3	1179.4	284.1	198.4	203.7	198.4	166.2	176.9	182.3	187.6	187.6
75°	3254.1	466.4	193.0	144.7	166.2	187.6	134.0	155.5	160.8	171.6	166.2
77.5°	906.0	225.2	123.3	107.2	144.7	144.7	101.9	123.3	144.7	182.3	166.2
80°	262.7	144.7	80.4	80.4	101.9	101.9	69.7	85.8	96.5	107.2	112.6
82.5°	182.3	96.5	53.6	59.0	59.0	64.3	42.9	42.9	53.6	53.6	59.0
85°	144.7	42.9	32.2	37.5	26.8	32.2	21.4	21.4	26.8	21.4	21.4
87.5°	59.0	21.4	21.4	21.4	16.1	16.1	10.7	5.4	5.4	5.4	5.4
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)