

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: P840971

Luminaire Tested: **ARCH4-110-740-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13852 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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



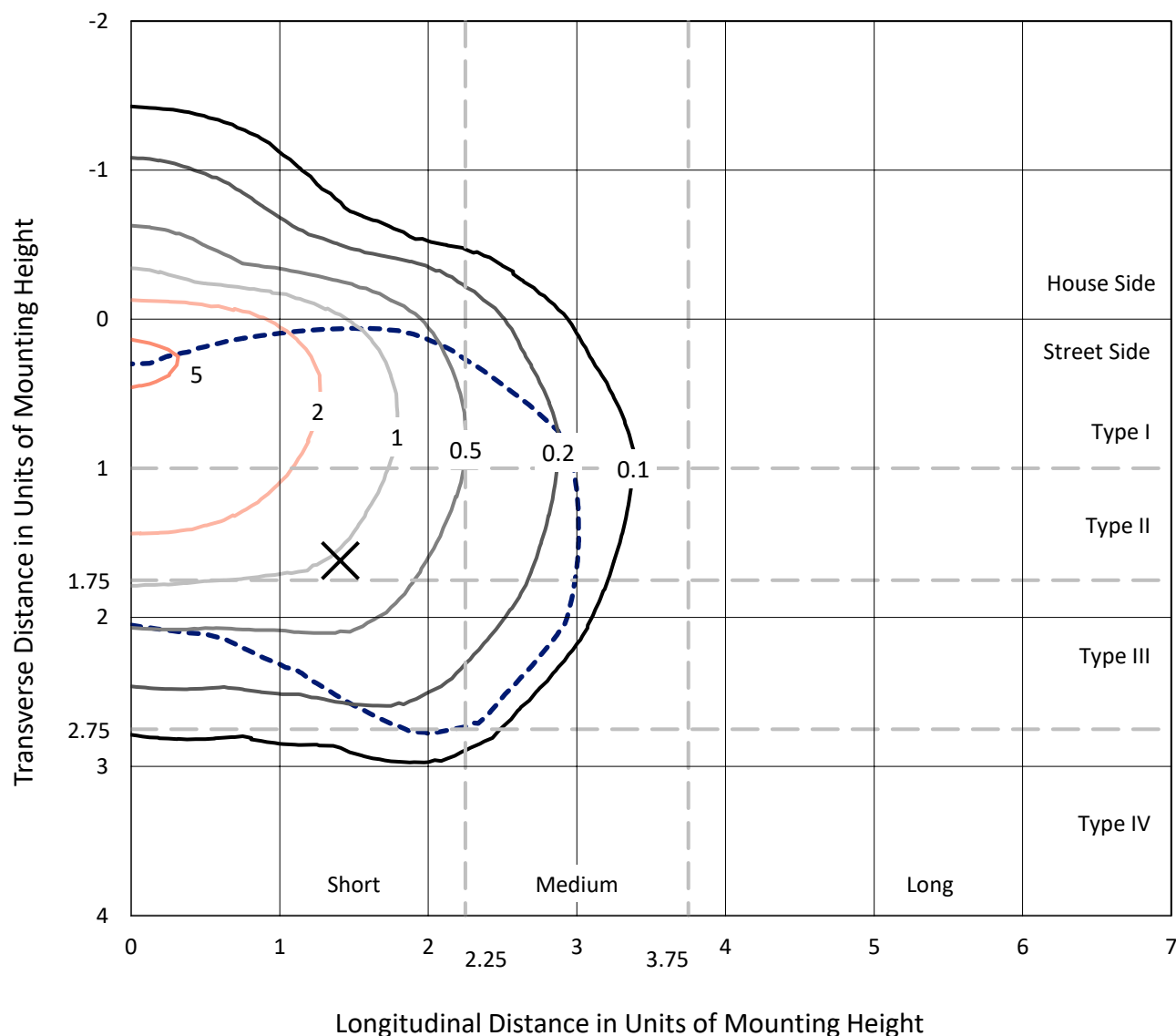
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

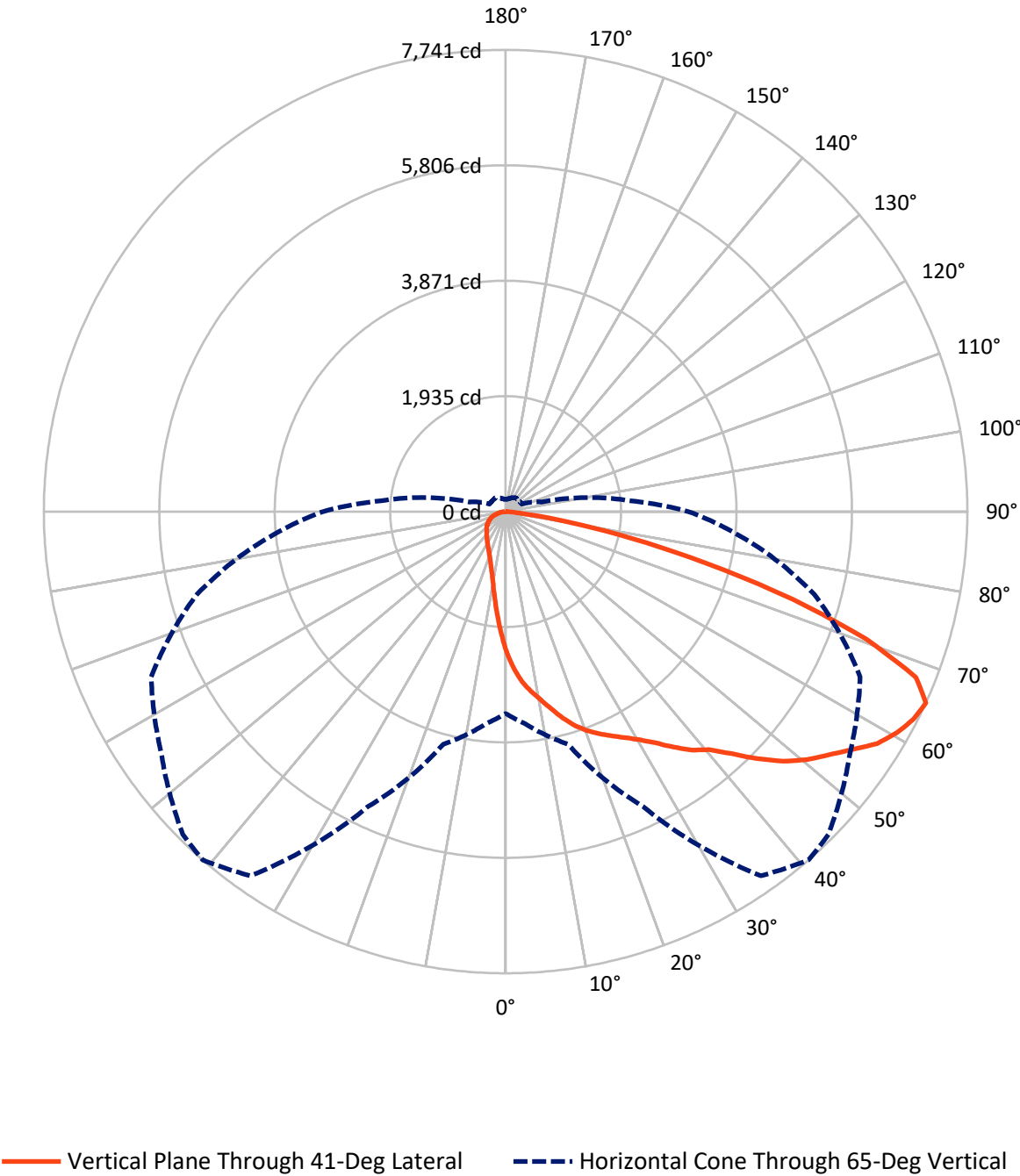


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.4	0.0	1778.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12073.6	0.0	12073.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	13852.0	0.0	13852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.6
10°-20°	659.4	4.8
20°-30°	1134.5	8.2
30°-40°	1720.6	12.4
40°-50°	2520.7	18.2
50°-60°	3183.2	23.0
60°-70°	2984.8	21.5
70°-80°	1330.3	9.6
80°-90°	98.6	0.7
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°	13852.0	100.0
0°-180°	13852.0	100.0

Coefficient of Utilization



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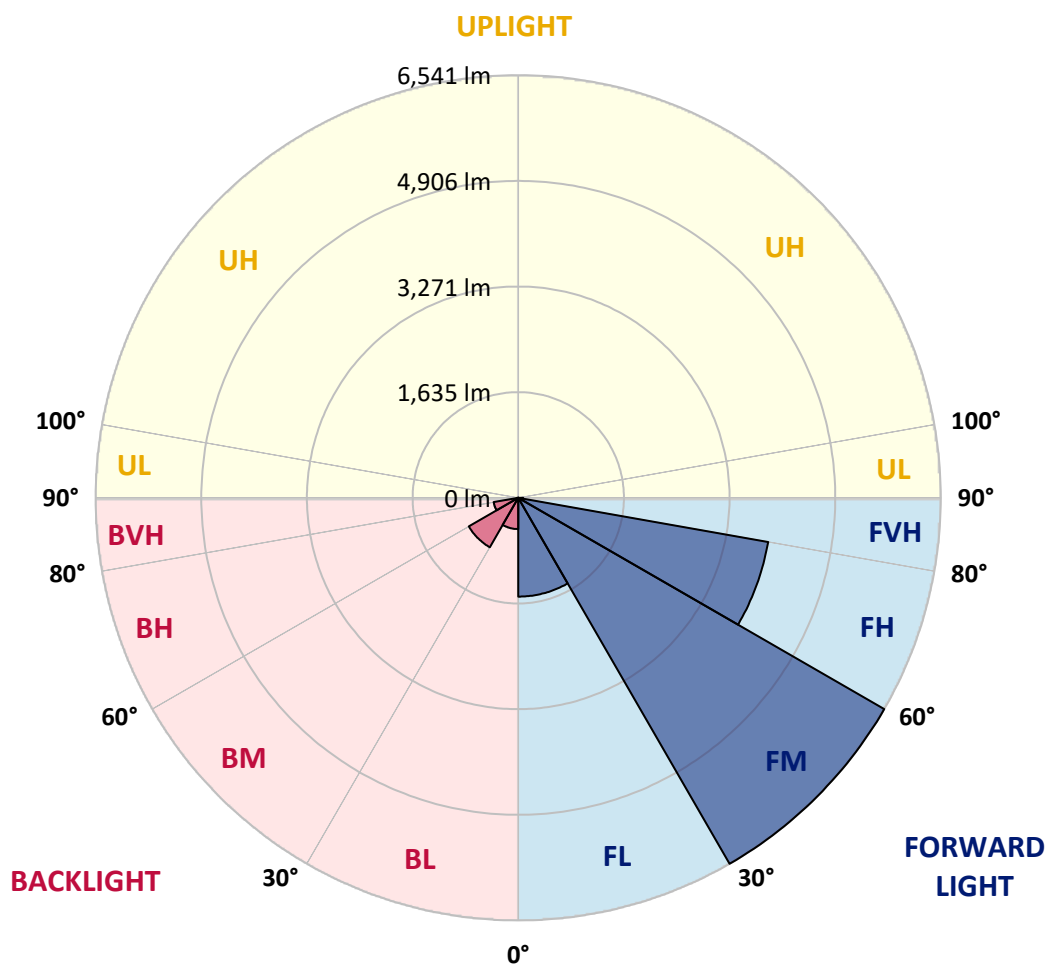
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.8	11.0			
FM	(30°-60°)	6541.5	47.2			
FH	(60°-80°)	3928.8	28.4			G2/5000
FVH	(80°-90°)	73.6	0.5			G1/100
BL	(0°-30°)	484.1	3.5	B1/500		
BM	(30°-60°)	883.1	6.4	B1/1000		
BH	(60°-80°)	386.3	2.8	B1/500		G1/500
BVH	(80°-90°)	25.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3
2.5°	2722.5	2713.8	2707.9	2675.8	2675.8	2632.0	2634.9	2594.0	2544.3	2465.5	2380.8
5°	2979.6	2967.9	2953.3	2921.2	2909.5	2865.7	2859.8	2801.4	2716.7	2579.4	2427.5
7.5°	3204.5	3192.8	3172.4	3125.7	3093.5	3040.9	3026.3	2950.4	2856.9	2687.5	2474.2
10°	3409.0	3400.2	3374.0	3315.5	3271.7	3207.4	3181.2	3078.9	2962.1	2775.1	2512.2
12.5°	3616.4	3604.7	3569.7	3520.0	3467.4	3391.5	3359.3	3227.9	3078.9	2871.5	2567.7
15°	3809.2	3791.7	3765.4	3712.8	3666.1	3593.0	3558.0	3403.2	3222.1	2979.6	2640.7
17.5°	3934.8	3920.2	3896.8	3867.6	3829.7	3774.2	3739.1	3587.2	3365.2	3084.8	2716.7
20°	4010.8	4004.9	3996.2	3978.6	3961.1	3923.1	3896.8	3753.7	3520.0	3187.0	2789.7
22.5°	4069.2	4063.4	4060.4	4060.4	4063.4	4048.7	4031.2	3908.5	3669.0	3295.1	2856.9
25°	4159.8	4156.8	4151.0	4145.1	4165.6	4168.5	4162.7	4078.0	3855.9	3438.2	2941.6
27.5°	4285.4	4276.6	4264.9	4259.1	4279.5	4294.1	4305.8	4247.4	4054.6	3584.3	3038.0
30°	4478.2	4451.9	4422.7	4402.2	4416.8	4440.2	4466.5	4431.4	4259.1	3765.4	3137.3
32.5°	4706.0	4673.9	4606.7	4568.7	4606.7	4624.2	4644.7	4627.1	4472.3	3961.1	3236.7
35°	4983.5	4945.5	4875.4	4819.9	4887.1	4849.1	4840.4	4822.9	4673.9	4153.9	3347.7
37.5°	5445.1	5389.6	5278.6	5155.9	5155.9	5074.1	5041.9	4989.4	4855.0	4326.3	3455.7
40°	5979.6	5906.6	5763.5	5582.4	5415.9	5246.4	5226.0	5188.0	5068.2	4524.9	3578.4
42.5°	6566.8	6426.6	6227.9	6008.9	5740.1	5547.3	5500.6	5392.5	5275.6	4726.5	3701.1
45°	7218.2	6926.1	6636.9	6525.9	6081.9	5906.6	5819.0	5623.3	5491.8	4936.8	3829.7
47.5°	7323.4	7095.5	6902.7	6885.2	6400.3	6254.2	6154.9	5874.5	5725.5	5161.7	3964.0
50°	7265.0	7127.7	7148.1	7078.0	6634.0	6537.6	6461.6	6143.2	5956.3	5377.9	4086.7
52.5°	7019.6	7095.5	7212.4	7083.8	6856.0	6777.1	6739.1	6432.4	6172.4	5576.5	4197.7
55°	6727.5	6780.0	7031.3	7189.0	7113.1	7042.9	7007.9	6768.4	6385.7	5743.0	4300.0
57.5°	6301.0	6277.6	6555.1	7171.5	7381.8	7340.9	7302.9	7098.5	6584.3	5862.8	4364.2
60°	5661.2	5611.6	5962.1	6820.9	7469.4	7533.7	7516.2	7317.5	6736.2	5859.9	4337.9
62.5°	4554.1	4676.8	5161.7	6248.4	7507.4	7671.0	7638.9	7335.1	6785.9	5690.4	4171.4
65°	3385.6	3560.9	4037.1	5459.7	7454.8	7741.1	7653.5	7048.8	6555.1	5354.5	3806.3
67.5°	2439.2	2594.0	2941.6	4492.8	6949.5	7419.8	7317.5	6581.4	6023.5	4878.4	3300.9
70°	1668.0	1779.0	2015.6	3271.7	5932.9	6414.9	6350.6	5883.2	5185.1	4311.7	2681.6
72.5°	1177.2	1224.0	1375.9	2158.7	4507.4	5033.2	4957.2	4840.4	4165.6	3584.3	2085.7
75°	882.2	911.4	993.2	1396.3	3040.9	3487.9	3417.8	3485.0	3111.1	2713.8	1519.0
77.5°	333.0	362.2	563.8	891.0	1799.4	2141.2	2071.1	2112.0	1729.3	1370.0	756.6
80°	90.6	96.4	187.0	423.6	817.9	1066.2	969.8	832.5	642.7	631.0	400.2
82.5°	38.0	43.8	84.7	227.9	292.1	292.1	245.4	303.8	245.4	295.0	192.8
85°	14.6	17.5	20.4	58.4	38.0	40.9	43.8	58.4	49.7	61.3	43.8
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	2.9	5.8	8.8	8.8	8.8
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°	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3	2360.3
2.5°	2345.7	2313.6	2266.8	2190.9	2112.0	2068.2	2012.7	2003.9	1945.5	1939.7	1916.3
5°	2360.3	2293.1	2173.4	2027.3	1884.2	1773.2	1691.4	1647.5	1562.8	1562.8	1539.5
7.5°	2372.0	2266.8	2074.0	1857.9	1662.1	1513.2	1402.2	1355.4	1279.5	1273.6	1256.1
10°	2374.9	2234.7	1965.9	1685.5	1446.0	1294.1	1186.0	1133.4	1066.2	1060.4	1048.7
12.5°	2398.3	2217.2	1869.6	1536.5	1291.2	1127.6	1022.4	978.6	926.0	920.2	908.5
15°	2436.3	2217.2	1787.8	1410.9	1153.9	1002.0	911.4	870.5	832.5	826.7	820.8
17.5°	2474.2	2211.3	1706.0	1294.1	1039.9	902.6	823.8	791.6	762.4	759.5	753.7
20°	2509.3	2208.4	1624.2	1194.8	952.3	820.8	759.5	730.3	706.9	706.9	704.0
22.5°	2544.3	2202.6	1545.3	1101.3	876.4	759.5	706.9	674.8	657.3	657.3	654.3
25°	2596.9	2202.6	1472.3	1022.4	815.0	712.8	660.2	636.8	622.2	619.3	619.3
27.5°	2658.3	2220.1	1408.0	952.3	762.4	666.0	625.1	601.8	584.2	578.4	581.3
30°	2725.5	2234.7	1349.6	891.0	712.8	631.0	587.2	563.8	546.3	540.4	543.3
32.5°	2792.6	2252.2	1297.0	835.5	663.1	598.8	555.0	528.7	511.2	508.3	508.3
35°	2865.7	2269.8	1244.4	788.7	622.2	566.7	525.8	496.6	484.9	479.1	482.0
37.5°	2938.7	2299.0	1194.8	744.9	593.0	537.5	499.5	470.3	461.5	458.6	458.6
40°	3026.3	2342.8	1174.3	715.7	566.7	511.2	479.1	449.9	441.1	441.1	441.1
42.5°	3099.4	2377.8	1156.8	683.6	546.3	487.8	458.6	435.3	429.4	426.5	429.4
45°	3172.4	2410.0	1133.4	654.3	520.0	464.5	441.1	417.7	411.9	411.9	411.9
47.5°	3245.4	2427.5	1101.3	625.1	496.6	444.0	423.6	403.1	397.3	397.3	397.3
50°	3303.8	2442.1	1054.5	593.0	470.3	426.5	406.0	385.6	379.8	379.8	379.8
52.5°	3362.3	2445.0	1004.9	555.0	444.0	406.0	388.5	368.1	362.2	359.3	359.3
55°	3414.9	2442.1	946.5	511.2	414.8	382.7	368.1	350.5	338.9	327.2	333.0
57.5°	3452.8	2439.2	879.3	467.4	385.6	359.3	353.5	330.1	306.7	277.5	283.4
60°	3438.2	2407.0	806.2	411.9	353.5	335.9	335.9	303.8	262.9	248.3	251.2
62.5°	3344.7	2316.5	730.3	353.5	321.3	312.6	309.6	274.6	242.5	227.9	230.8
65°	3064.3	2088.6	619.3	300.9	289.2	286.3	286.3	254.1	224.9	207.4	210.3
67.5°	2637.8	1752.7	505.4	254.1	257.1	262.9	262.9	233.7	204.5	187.0	189.9
70°	2114.9	1370.0	403.1	219.1	222.0	230.8	236.6	210.3	184.0	166.5	166.5
72.5°	1592.0	1039.9	324.3	184.0	198.6	198.6	207.4	187.0	160.7	143.1	146.1
75°	1153.9	744.9	257.1	154.8	172.3	169.4	169.4	157.7	137.3	125.6	125.6
77.5°	546.3	391.4	204.5	111.0	134.4	131.5	134.4	125.6	116.8	105.2	108.1
80°	268.7	192.8	131.5	78.9	93.5	96.4	105.2	99.3	96.4	87.6	87.6
82.5°	128.5	76.0	61.3	55.5	64.3	67.2	73.0	73.0	76.0	70.1	70.1
85°	35.1	20.4	26.3	35.1	40.9	43.8	49.7	52.6	52.6	49.7	52.6
87.5°	8.8	8.8	11.7	17.5	20.4	23.4	26.3	26.3	11.7	0.0	0.0
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)