

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: P841239

Luminaire Tested: **ARCH4-150-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16725 lumens
Efficiency: N/A
Efficacy: 110.9 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): 150.8
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

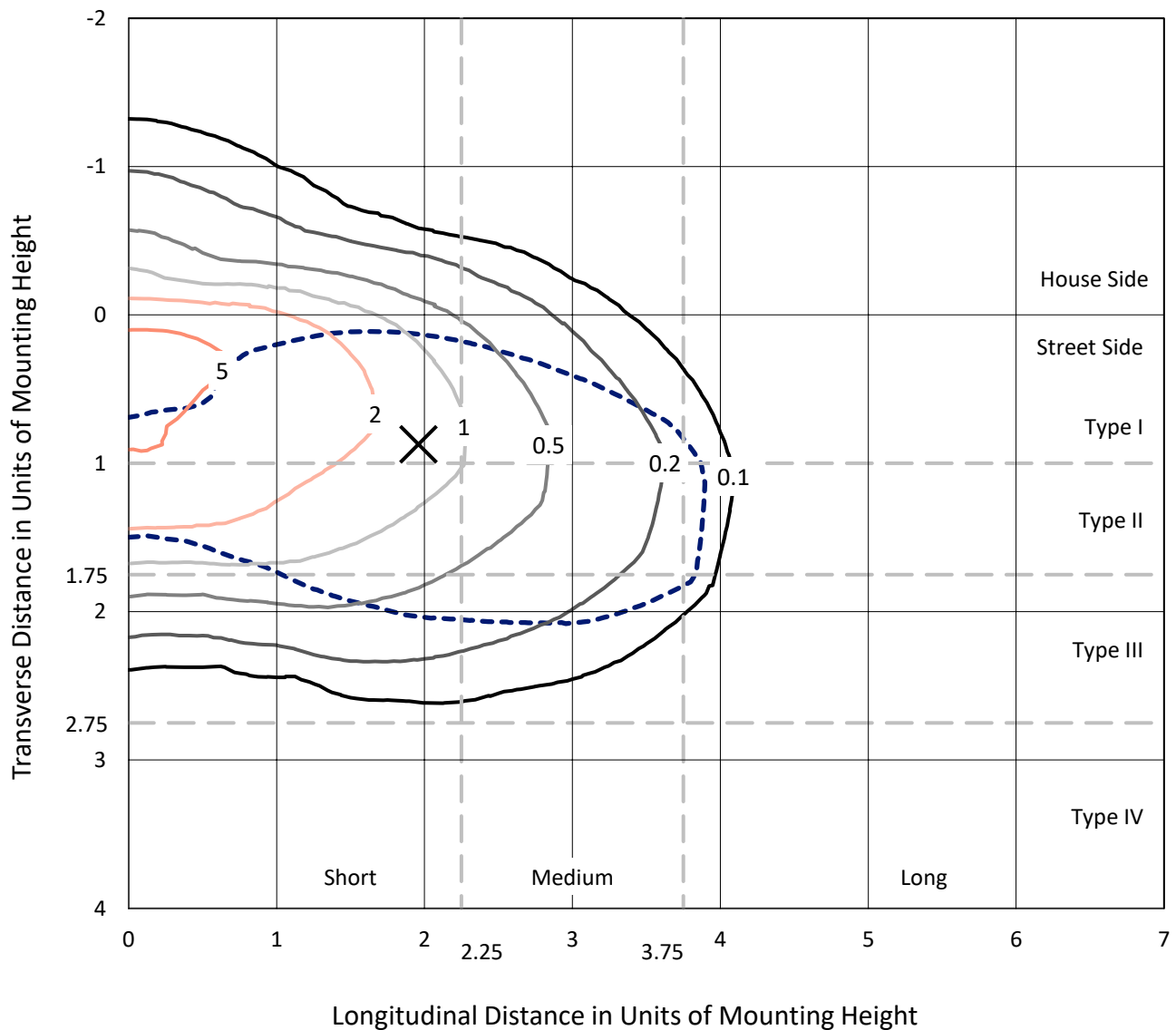


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Iso-Footcandle Lines of Horizontal Illumination

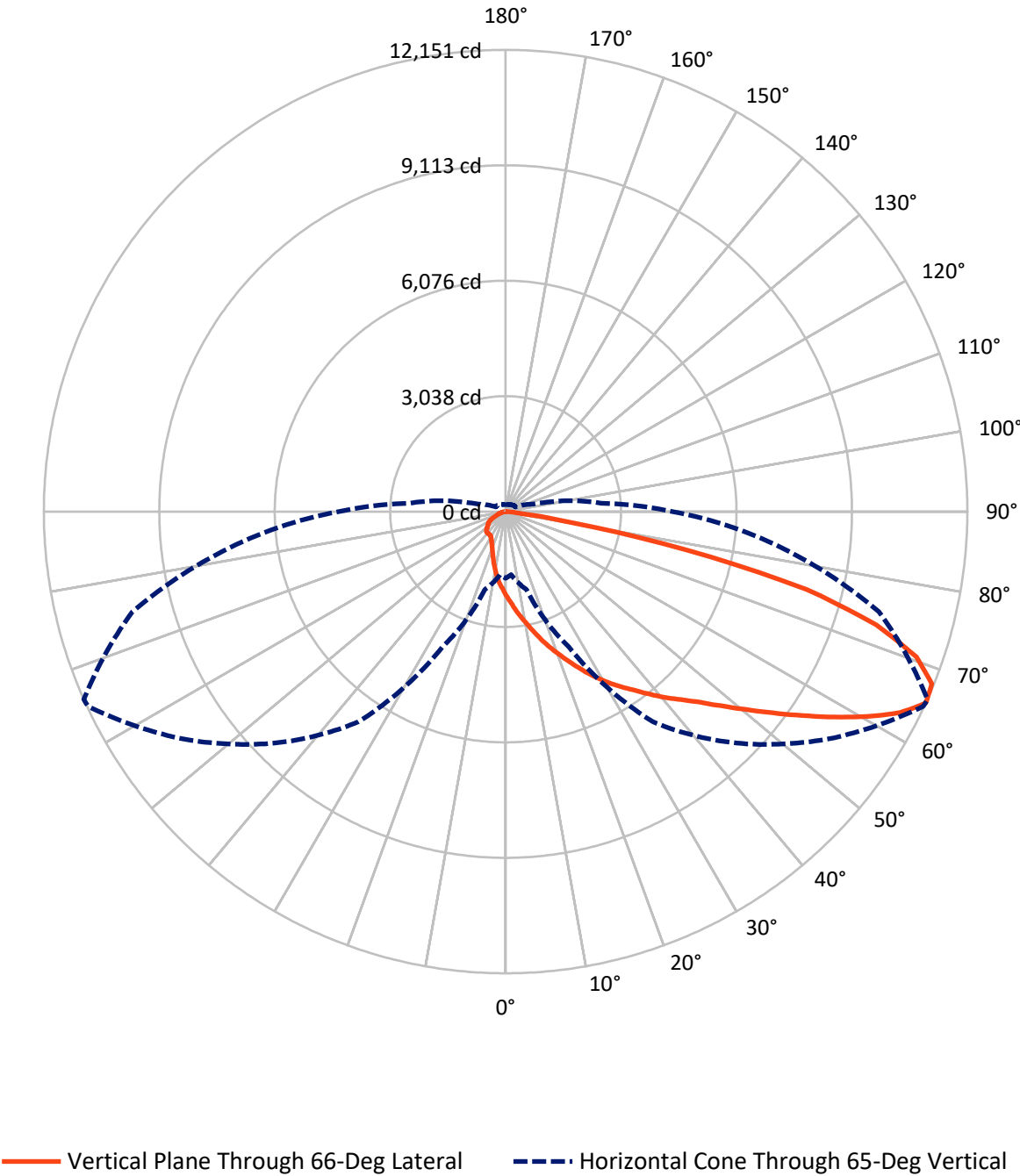
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1769.0	0.0	1769.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14955.9	0.0	14955.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	16725.0	0.0	16725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.3
10°-20°	712.1	4.3
20°-30°	1288.3	7.7
30°-40°	2014.6	12.0
40°-50°	3056.1	18.3
50°-60°	3882.9	23.2
60°-70°	3628.2	21.7
70°-80°	1803.2	10.8
80°-90°	121.1	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°	16725.0	100.0
0°-180°	16725.0	100.0

Coefficient of Utilization



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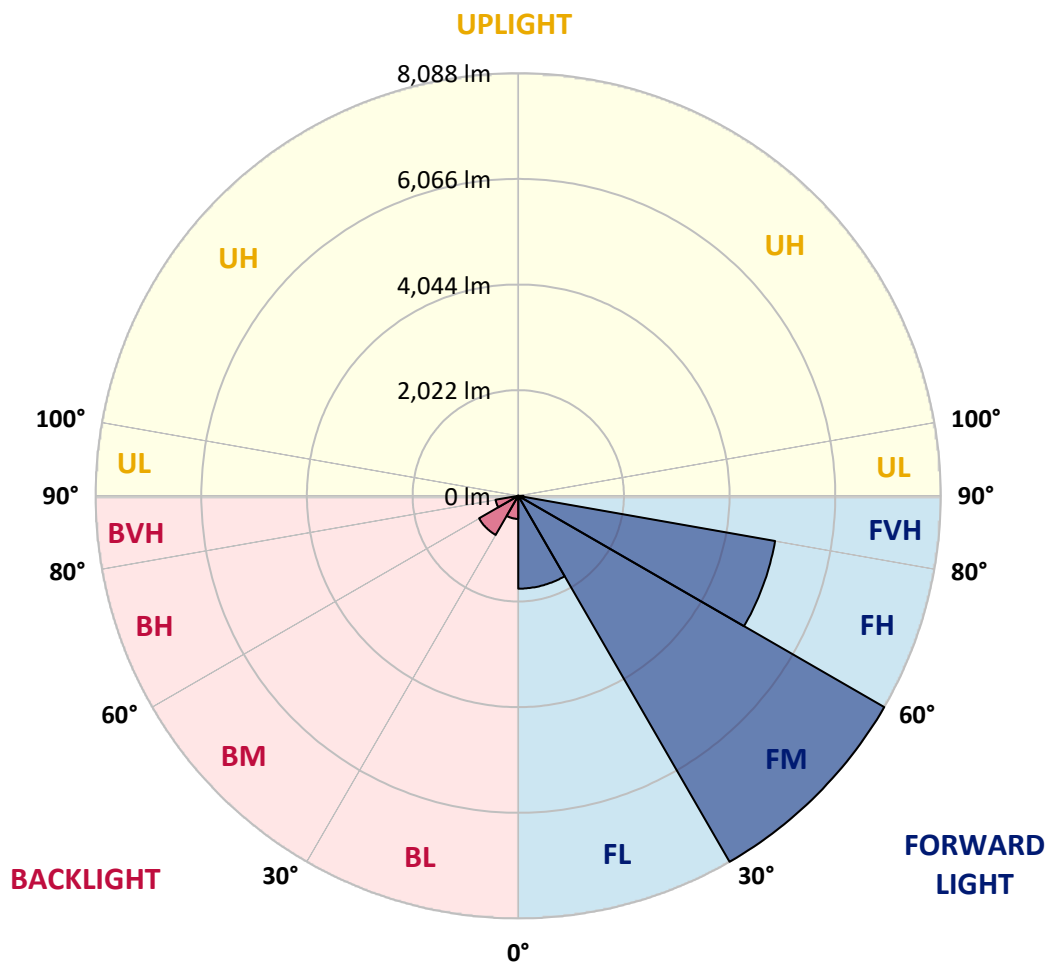
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1777.0	10.6			
FM	(30°-60°)	8088.4	48.4			
FH	(60°-80°)	4990.8	29.8			G2/5000
FVH	(80°-90°)	99.7	0.6			G1/100
BL	(0°-30°)	441.8	2.6	B1/500		
BM	(30°-60°)	865.2	5.2	B1/1000		
BH	(60°-80°)	440.6	2.6	B1/500		G1/500
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: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5
2.5°	2585.3	2606.3	2616.9	2620.4	2539.7	2504.6	2469.5	2388.9	2371.3	2325.7	2266.1
5°	3041.3	3069.4	3062.4	3048.3	2950.1	2837.9	2746.7	2595.8	2571.3	2462.5	2329.2
7.5°	3490.3	3514.9	3507.9	3455.2	3346.5	3188.6	3037.8	2816.8	2781.7	2606.3	2392.4
10°	3865.7	3886.7	3883.2	3830.6	3700.8	3507.9	3325.5	3030.8	2988.7	2739.6	2445.0
12.5°	4174.4	4202.4	4198.9	4163.8	4048.1	3837.6	3630.6	3276.3	3223.7	2901.0	2518.6
15°	4416.4	4451.5	4451.5	4437.4	4356.8	4181.4	3946.3	3546.5	3483.3	3086.9	2609.9
17.5°	4563.7	4591.8	4616.3	4640.9	4584.8	4451.5	4237.5	3816.6	3749.9	3269.3	2704.6
20°	4640.9	4669.0	4686.5	4739.1	4749.6	4683.0	4514.6	4083.2	4013.0	3476.3	2813.3
22.5°	4767.2	4791.7	4795.2	4840.9	4861.9	4879.4	4774.2	4346.2	4290.1	3704.3	2936.1
25°	4977.7	5005.7	4995.2	5016.2	5019.8	5040.8	5030.3	4647.9	4591.8	3963.9	3083.4
27.5°	5247.8	5282.8	5275.8	5254.8	5223.2	5205.7	5251.3	4953.1	4900.5	4223.5	3234.3
30°	5538.9	5581.0	5570.5	5528.4	5444.2	5370.5	5433.7	5240.7	5191.6	4490.1	3402.6
32.5°	5833.6	5882.7	5879.2	5809.0	5665.2	5538.9	5633.6	5510.9	5475.8	4777.7	3585.0
35°	6026.5	6089.7	6082.6	6040.5	5854.6	5745.9	5861.6	5788.0	5763.4	5128.5	3848.1
37.5°	6338.7	6405.4	6345.7	6240.5	6026.5	5970.4	6110.7	6100.2	6082.6	5500.3	4125.2
40°	7096.4	7194.6	7036.8	6605.3	6254.5	6205.4	6405.4	6447.5	6429.9	5868.7	4374.3
42.5°	7889.2	8036.5	7791.0	7194.6	6668.4	6489.5	6728.1	6787.7	6766.7	6184.4	4598.8
45°	8369.8	8432.9	8187.4	7724.3	7401.6	6833.3	7071.9	7170.1	7152.5	6563.2	4886.5
47.5°	8762.6	8738.1	8457.5	8145.3	8204.9	7317.4	7461.2	7654.2	7640.1	6980.6	5202.2
50°	8846.8	8790.7	8678.5	8482.0	8639.9	7808.5	7871.6	8204.9	8190.9	7443.7	5521.4
52.5°	8254.0	8180.3	8485.5	8650.4	8597.8	8166.3	8324.2	8808.2	8801.2	7945.3	5826.6
55°	6773.7	6714.1	7534.9	8387.3	8552.2	8418.9	8825.8	9436.2	9474.7	8478.5	6103.7
57.5°	5328.4	5265.3	6072.1	7727.8	8383.8	8650.4	9411.6	10155.3	10204.4	9057.3	6366.8
60°	4248.0	4153.3	4770.7	6689.5	8068.1	8829.3	9976.4	10944.5	10951.6	9587.0	6528.1
62.5°	2887.0	2781.7	3465.8	5374.0	7538.4	8857.4	10411.3	11625.1	11653.1	9983.4	6556.2
65°	1753.9	1666.2	2129.3	3925.3	6756.1	8618.8	10418.4	12126.7	12151.2	10165.8	6387.8
67.5°	1017.3	982.2	1217.2	2445.0	5458.2	7976.9	9979.9	12049.5	12095.1	10088.6	6005.5
70°	592.8	589.3	677.0	1210.2	3851.6	6703.5	9001.2	11400.6	11467.2	9685.2	5419.6
72.5°	435.0	442.0	477.1	649.0	2231.0	4826.8	7622.6	10095.6	10197.4	8895.9	4584.8
75°	343.8	347.3	378.8	442.0	1171.6	2729.1	5710.8	8103.2	8183.8	7489.3	3581.5
77.5°	256.1	263.1	287.6	312.2	543.7	1252.3	3213.2	4991.7	4858.4	4111.2	1729.4
80°	185.9	203.5	214.0	224.5	287.6	484.1	964.7	1739.9	1725.9	1796.0	817.3
82.5°	119.3	133.3	143.8	150.8	171.9	231.5	287.6	389.4	420.9	698.1	326.2
85°	52.6	59.6	66.6	80.7	73.7	80.7	119.3	77.2	66.6	105.2	59.6
87.5°	0.0	0.0	10.5	17.5	14.0	7.0	21.0	14.0	10.5	10.5	10.5
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°	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5	2213.5
2.5°	2234.5	2195.9	2115.2	2038.1	1992.5	1932.8	1880.2	1831.1	1827.6	1813.6	1789.0
5°	2262.6	2188.9	2038.1	1894.2	1785.5	1669.7	1571.5	1494.3	1466.3	1445.2	1417.2
7.5°	2290.6	2174.9	1950.4	1739.9	1568.0	1406.7	1290.9	1185.7	1154.1	1126.0	1108.5
10°	2301.2	2150.3	1848.6	1568.0	1343.5	1171.6	1048.9	971.7	943.6	929.6	919.1
12.5°	2332.7	2136.3	1753.9	1406.7	1147.1	989.2	901.5	855.9	845.4	834.9	824.3
15°	2374.8	2136.3	1659.2	1248.8	992.7	866.4	813.8	782.3	775.2	771.7	764.7
17.5°	2420.4	2136.3	1568.0	1115.5	880.5	785.8	747.2	729.6	726.1	722.6	719.1
20°	2483.6	2139.8	1469.8	999.7	799.8	726.1	694.6	673.5	670.0	666.5	666.5
22.5°	2546.7	2146.8	1375.1	912.0	747.2	680.5	641.9	620.9	613.9	613.9	613.9
25°	2627.4	2167.9	1287.4	838.4	701.6	638.4	589.3	571.8	568.3	568.3	564.8
27.5°	2722.1	2192.4	1210.2	782.3	656.0	589.3	540.2	522.7	515.7	515.7	512.1
30°	2823.8	2217.0	1147.1	740.2	610.4	540.2	494.6	473.6	466.5	470.1	466.5
32.5°	2936.1	2252.0	1098.0	712.1	568.3	498.1	456.0	431.5	428.0	428.0	424.5
35°	3125.5	2350.3	1090.9	698.1	533.2	466.5	424.5	399.9	396.4	396.4	392.9
37.5°	3329.0	2462.5	1122.5	691.0	505.1	438.5	399.9	375.3	371.8	371.8	371.8
40°	3500.8	2546.7	1157.6	691.0	487.6	413.9	378.8	357.8	357.8	357.8	357.8
42.5°	3616.6	2553.7	1150.6	691.0	473.6	396.4	364.8	343.8	343.8	347.3	343.8
45°	3788.5	2588.8	1122.5	680.5	463.0	382.4	350.8	333.2	329.7	333.2	333.2
47.5°	3991.9	2651.9	1094.5	638.4	459.5	368.3	340.3	319.2	315.7	319.2	315.7
50°	4184.9	2708.1	1080.4	582.3	452.5	354.3	326.2	305.2	301.7	305.2	301.7
52.5°	4346.2	2732.6	1055.9	543.7	435.0	340.3	312.2	291.2	284.1	287.6	287.6
55°	4476.0	2725.6	1020.8	512.1	403.4	326.2	294.7	277.1	266.6	266.6	263.1
57.5°	4595.3	2729.1	989.2	480.6	368.3	305.2	280.6	259.6	245.6	242.0	238.5
60°	4640.9	2711.6	933.1	438.5	333.2	287.6	263.1	238.5	224.5	221.0	217.5
62.5°	4577.8	2648.4	859.4	364.8	301.7	266.6	245.6	221.0	207.0	203.5	199.9
65°	4398.9	2529.2	747.2	287.6	273.6	242.0	224.5	207.0	189.4	182.4	178.9
67.5°	4093.7	2357.3	606.9	231.5	242.0	221.0	210.5	189.4	168.4	161.4	157.9
70°	3658.7	2129.3	456.0	196.4	214.0	196.4	189.4	168.4	150.8	143.8	140.3
72.5°	3048.3	1760.9	319.2	168.4	185.9	171.9	164.9	150.8	133.3	122.8	122.8
75°	2304.7	1262.8	210.5	143.8	154.3	147.3	136.8	126.3	115.8	108.7	105.2
77.5°	992.7	491.1	129.8	108.7	126.3	122.8	108.7	101.7	98.2	91.2	91.2
80°	428.0	199.9	80.7	80.7	91.2	87.7	84.2	77.2	77.2	73.7	70.2
82.5°	157.9	80.7	49.1	59.6	66.6	59.6	59.6	59.6	59.6	56.1	56.1
85°	38.6	24.6	24.6	35.1	38.6	35.1	38.6	35.1	35.1	35.1	31.6
87.5°	10.5	10.5	14.0	14.0	14.0	14.0	14.0	10.5	0.0	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)