

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: P841167

Luminaire Tested: **ARCH4-140-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841167
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: ARCH4-140-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA 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: 15825 lumens
Efficiency: N/A
Efficacy: 112.0 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): 141.3
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



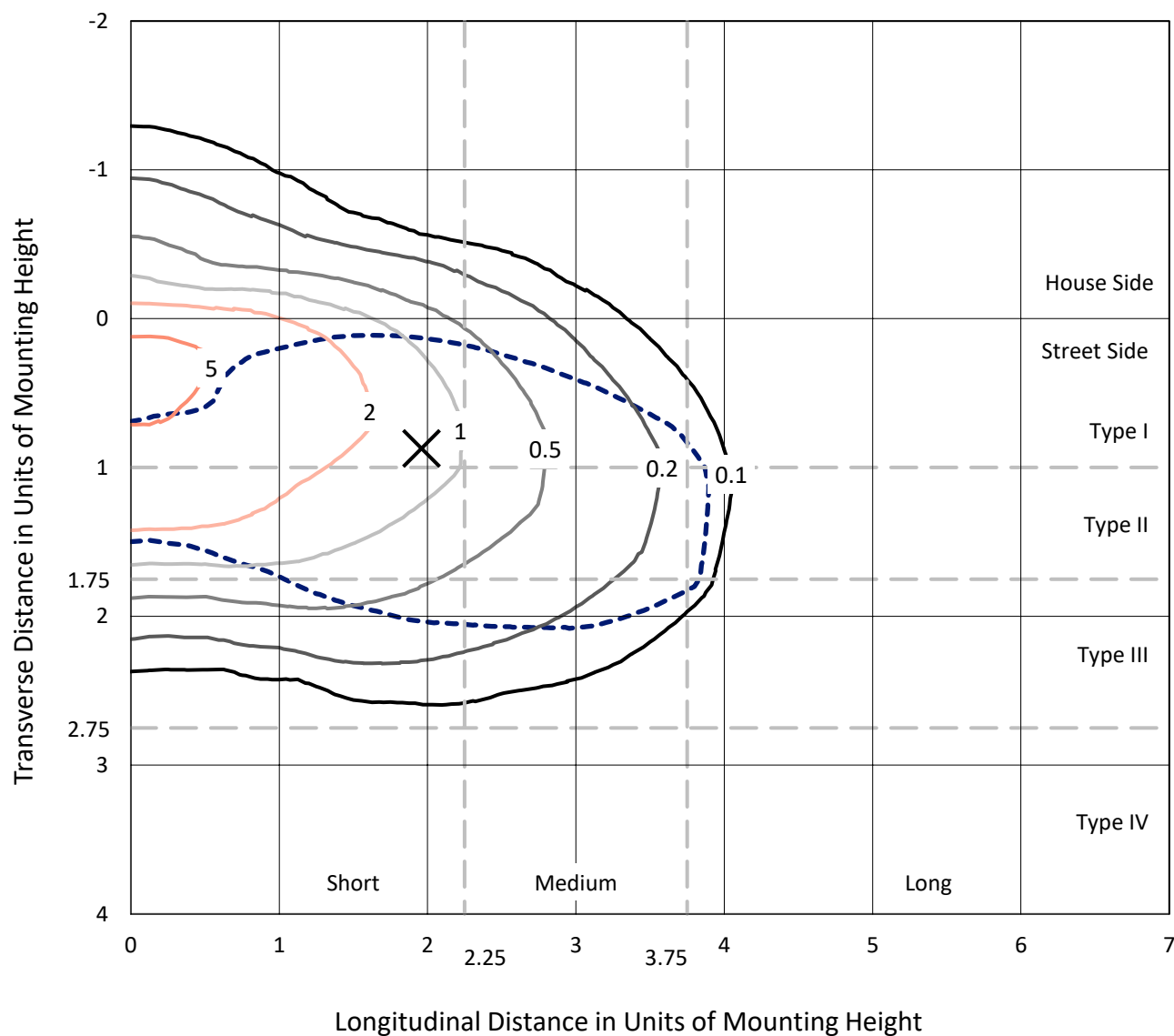
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

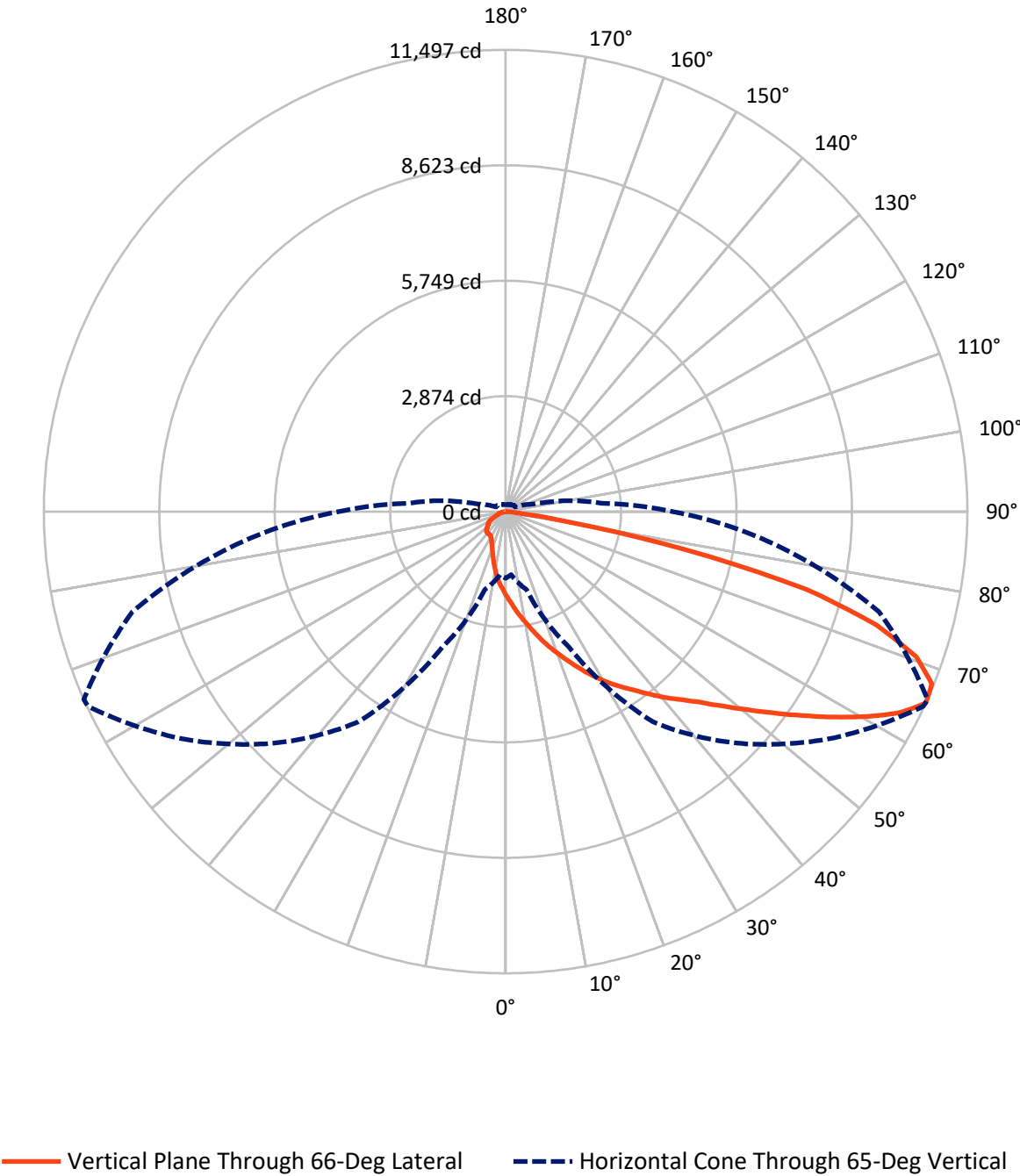


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

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	1673.9	0.0	1673.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14151.1	0.0	14151.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	15825.0	0.0	15825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.3
10°-20°	673.7	4.3
20°-30°	1219.0	7.7
30°-40°	1906.2	12.0
40°-50°	2891.7	18.3
50°-60°	3674.0	23.2
60°-70°	3432.9	21.7
70°-80°	1706.1	10.8
80°-90°	114.6	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°	15825.0	100.0
0°-180°	15825.0	100.0

Coefficient of Utilization



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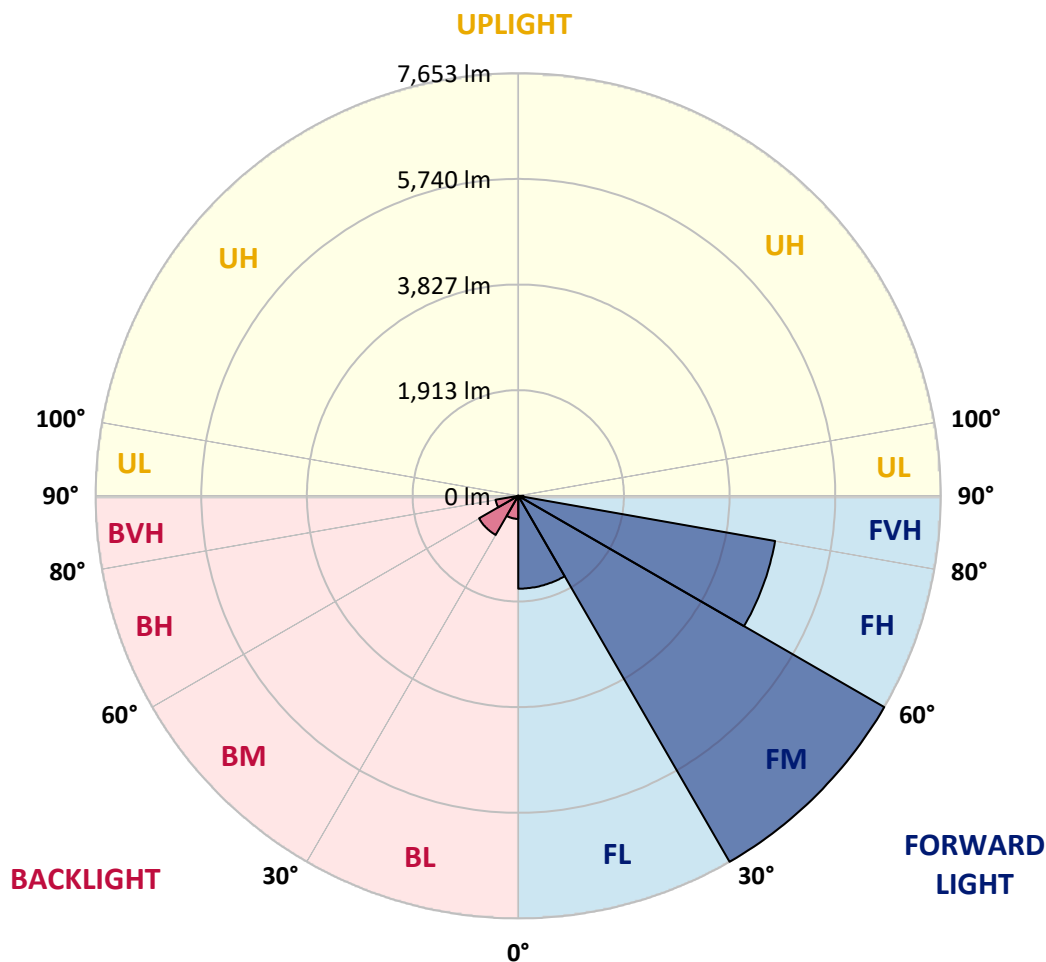
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.4	10.6			
FM	(30°-60°)	7653.1	48.4			
FH	(60°-80°)	4722.2	29.8			G2/5000
FVH	(80°-90°)	94.3	0.6			G1/100
BL	(0°-30°)	418.0	2.6	B1/500		
BM	(30°-60°)	818.7	5.2	B1/1000		
BH	(60°-80°)	416.8	2.6	B1/500		G1/500
BVH	(80°-90°)	20.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4
2.5°	2446.2	2466.1	2476.0	2479.4	2403.0	2369.8	2336.6	2260.3	2243.7	2200.6	2144.1
5°	2877.7	2904.2	2897.6	2884.3	2791.4	2685.2	2598.9	2456.1	2432.9	2330.0	2203.9
7.5°	3302.5	3325.7	3319.1	3269.3	3166.4	3017.1	2874.3	2665.2	2632.0	2466.1	2263.6
10°	3657.6	3677.6	3674.2	3624.5	3501.7	3319.1	3146.5	2867.7	2827.9	2592.2	2313.4
12.5°	3949.7	3976.3	3973.0	3939.8	3830.2	3631.1	3435.3	3100.0	3050.3	2744.9	2383.1
15°	4178.7	4211.9	4211.9	4198.7	4122.3	3956.4	3734.0	3355.6	3295.9	2920.8	2469.4
17.5°	4318.1	4344.7	4367.9	4391.2	4338.1	4211.9	4009.5	3611.2	3548.1	3093.4	2559.0
20°	4391.2	4417.7	4434.3	4484.1	4494.1	4431.0	4271.7	3863.4	3797.1	3289.2	2661.9
22.5°	4510.7	4533.9	4537.2	4580.4	4600.3	4616.9	4517.3	4112.4	4059.3	3505.0	2778.1
25°	4709.8	4736.4	4726.4	4746.3	4749.6	4769.5	4759.6	4397.8	4344.7	3750.6	2917.5
27.5°	4965.4	4998.6	4991.9	4972.0	4942.1	4925.5	4968.7	4686.6	4636.8	3996.2	3060.2
30°	5240.9	5280.7	5270.7	5230.9	5151.2	5081.5	5141.3	4958.7	4912.3	4248.4	3219.5
32.5°	5519.7	5566.1	5562.8	5496.4	5360.3	5240.9	5330.5	5214.3	5181.1	4520.6	3392.1
35°	5702.2	5762.0	5755.3	5715.5	5539.6	5436.7	5546.2	5476.5	5453.3	4852.5	3641.1
37.5°	5997.6	6060.7	6004.3	5904.7	5702.2	5649.1	5781.9	5771.9	5755.3	5204.3	3903.3
40°	6714.5	6807.5	6658.1	6249.9	5918.0	5871.5	6060.7	6100.5	6083.9	5552.9	4138.9
42.5°	7464.7	7604.1	7371.7	6807.5	6309.6	6140.3	6366.0	6422.5	6402.5	5851.6	4351.3
45°	7919.4	7979.1	7746.8	7308.7	7003.3	6465.6	6691.3	6784.2	6767.6	6210.0	4623.5
47.5°	8291.1	8267.9	8002.3	7706.9	7763.4	6923.6	7059.7	7242.3	7229.0	6605.0	4922.2
50°	8370.8	8317.7	8211.5	8025.6	8174.9	7388.3	7448.1	7763.4	7750.1	7043.1	5224.3
52.5°	7809.8	7740.1	8028.9	8184.9	8135.1	7726.9	7876.2	8334.3	8327.6	7517.8	5513.0
55°	6409.2	6352.8	7129.4	7936.0	8092.0	7965.8	8350.9	8928.4	8964.9	8022.3	5775.2
57.5°	5041.7	4982.0	5745.4	7312.0	7932.6	8184.9	8905.1	9608.8	9655.3	8569.9	6024.2
60°	4019.4	3929.8	4514.0	6329.5	7633.9	8354.2	9439.5	10355.6	10362.2	9071.1	6176.8
62.5°	2731.6	2632.0	3279.3	5084.9	7132.7	8380.7	9851.1	10999.5	11026.0	9446.2	6203.4
65°	1659.5	1576.6	2014.7	3714.1	6392.6	8155.0	9857.7	11474.1	11497.4	9618.8	6044.1
67.5°	962.5	929.3	1151.7	2313.4	5164.5	7547.6	9442.8	11401.1	11444.3	9545.7	5682.3
70°	560.9	557.6	640.6	1145.1	3644.4	6342.8	8516.8	10787.1	10850.1	9164.0	5128.0
72.5°	411.6	418.2	451.4	614.0	2110.9	4567.1	7212.4	9552.4	9648.6	8417.2	4338.1
75°	325.3	328.6	358.5	418.2	1108.6	2582.3	5403.5	7667.1	7743.5	7086.3	3388.8
77.5°	242.3	248.9	272.2	295.4	514.5	1184.9	3040.3	4723.1	4597.0	3890.0	1636.3
80°	175.9	192.5	202.5	212.4	272.2	458.0	912.8	1646.3	1633.0	1699.4	773.4
82.5°	112.8	126.1	136.1	142.7	162.6	219.1	272.2	368.4	398.3	660.5	308.7
85°	49.8	56.4	63.1	76.3	69.7	76.3	112.8	73.0	63.1	99.6	56.4
87.5°	0.0	0.0	10.0	16.6	13.3	6.6	19.9	13.3	10.0	10.0	10.0
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°	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4	2094.4
2.5°	2114.3	2077.8	2001.4	1928.4	1885.2	1828.8	1779.0	1732.6	1729.3	1716.0	1692.7
5°	2140.8	2071.1	1928.4	1792.3	1689.4	1579.9	1487.0	1413.9	1387.4	1367.5	1340.9
7.5°	2167.4	2057.8	1845.4	1646.3	1483.6	1331.0	1221.4	1121.9	1092.0	1065.4	1048.8
10°	2177.3	2034.6	1749.2	1483.6	1271.2	1108.6	992.4	919.4	892.8	879.6	869.6
12.5°	2207.2	2021.3	1659.5	1331.0	1085.3	936.0	853.0	809.9	799.9	789.9	780.0
15°	2247.0	2021.3	1569.9	1181.6	939.3	819.8	770.0	740.2	733.5	730.2	723.6
17.5°	2290.2	2021.3	1483.6	1055.5	833.1	743.5	707.0	690.4	687.1	683.7	680.4
20°	2349.9	2024.7	1390.7	945.9	756.8	687.1	657.2	637.3	633.9	630.6	630.6
22.5°	2409.7	2031.3	1301.1	863.0	707.0	643.9	607.4	587.5	580.8	580.8	580.8
25°	2486.0	2051.2	1218.1	793.3	663.8	604.1	557.6	541.0	537.7	537.7	534.4
27.5°	2575.6	2074.4	1145.1	740.2	620.7	557.6	511.1	494.5	487.9	487.9	484.6
30°	2671.9	2097.7	1085.3	700.3	577.5	511.1	468.0	448.1	441.4	444.8	441.4
32.5°	2778.1	2130.9	1038.9	673.8	537.7	471.3	431.5	408.2	404.9	404.9	401.6
35°	2957.3	2223.8	1032.2	660.5	504.5	441.4	401.6	378.4	375.1	375.1	371.7
37.5°	3149.8	2330.0	1062.1	653.9	478.0	414.9	378.4	355.1	351.8	351.8	351.8
40°	3312.5	2409.7	1095.3	653.9	461.4	391.7	358.5	338.5	338.5	338.5	338.5
42.5°	3422.0	2416.3	1088.7	653.9	448.1	375.1	345.2	325.3	325.3	328.6	325.3
45°	3584.6	2449.5	1062.1	643.9	438.1	361.8	331.9	315.3	312.0	315.3	315.3
47.5°	3777.1	2509.2	1035.6	604.1	434.8	348.5	322.0	302.0	298.7	302.0	298.7
50°	3959.7	2562.3	1022.3	551.0	428.2	335.2	308.7	288.8	285.4	288.8	285.4
52.5°	4112.4	2585.6	999.0	514.5	411.6	322.0	295.4	275.5	268.8	272.2	272.2
55°	4235.2	2578.9	965.9	484.6	381.7	308.7	278.8	262.2	252.3	252.3	248.9
57.5°	4348.0	2582.3	936.0	454.7	348.5	288.8	265.5	245.6	232.3	229.0	225.7
60°	4391.2	2565.7	882.9	414.9	315.3	272.2	248.9	225.7	212.4	209.1	205.8
62.5°	4331.4	2505.9	813.2	345.2	285.4	252.3	232.3	209.1	195.8	192.5	189.2
65°	4162.2	2393.1	707.0	272.2	258.9	229.0	212.4	195.8	179.2	172.6	169.3
67.5°	3873.4	2230.4	574.2	219.1	229.0	209.1	199.1	179.2	159.3	152.7	149.4
70°	3461.8	2014.7	431.5	185.9	202.5	185.9	179.2	159.3	142.7	136.1	132.8
72.5°	2884.3	1666.2	302.0	159.3	175.9	162.6	156.0	142.7	126.1	116.2	116.2
75°	2180.6	1194.9	199.1	136.1	146.0	139.4	129.4	119.5	109.5	102.9	99.6
77.5°	939.3	464.7	122.8	102.9	119.5	116.2	102.9	96.3	92.9	86.3	86.3
80°	404.9	189.2	76.3	76.3	86.3	83.0	79.7	73.0	73.0	69.7	66.4
82.5°	149.4	76.3	46.5	56.4	63.1	56.4	56.4	56.4	56.4	53.1	53.1
85°	36.5	23.2	23.2	33.2	36.5	33.2	36.5	33.2	33.2	33.2	29.9
87.5°	10.0	10.0	13.3	13.3	13.3	13.3	13.3	10.0	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)