

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: P836108

Luminaire Tested: **ARCH3-140-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14393 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

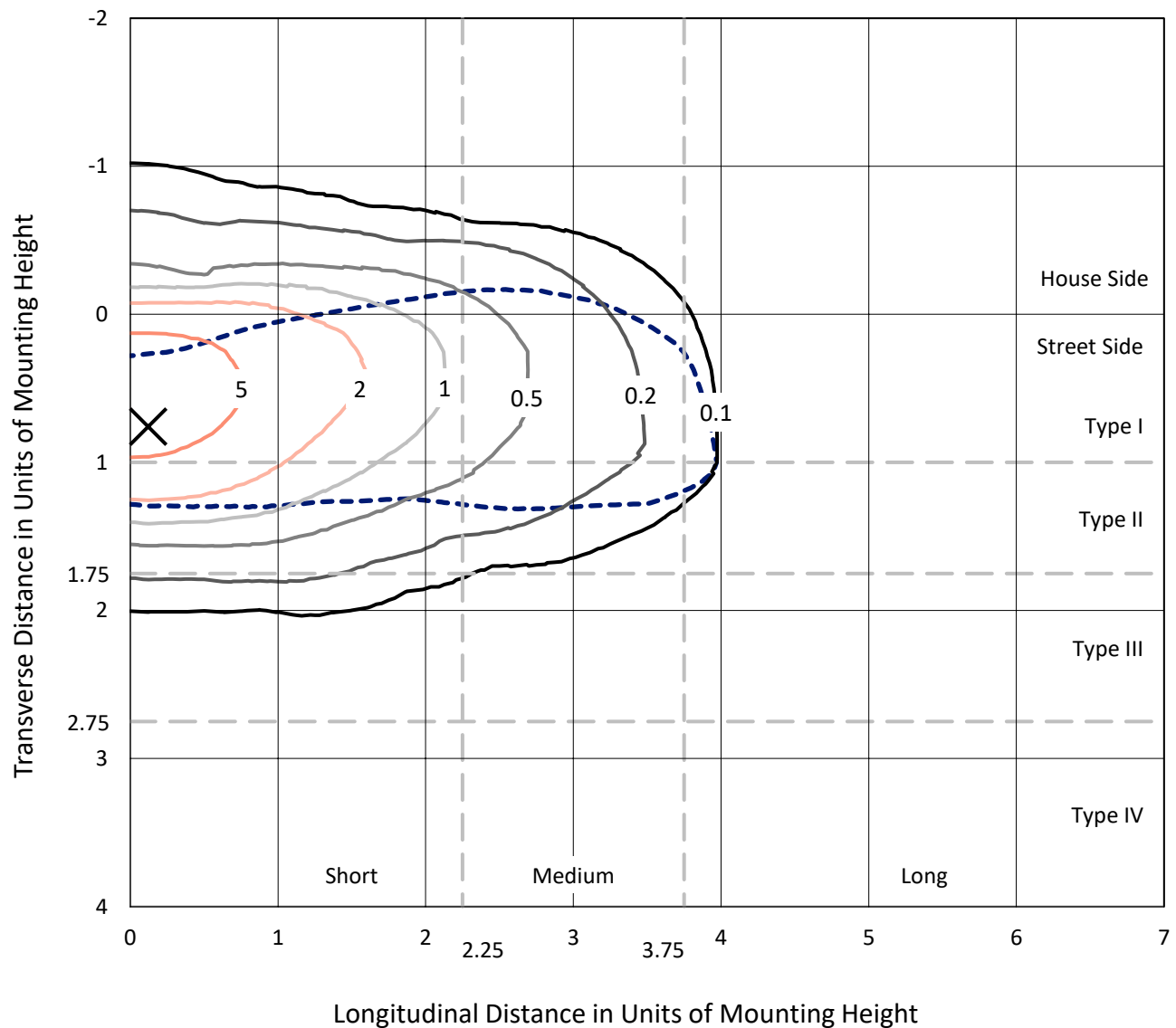
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

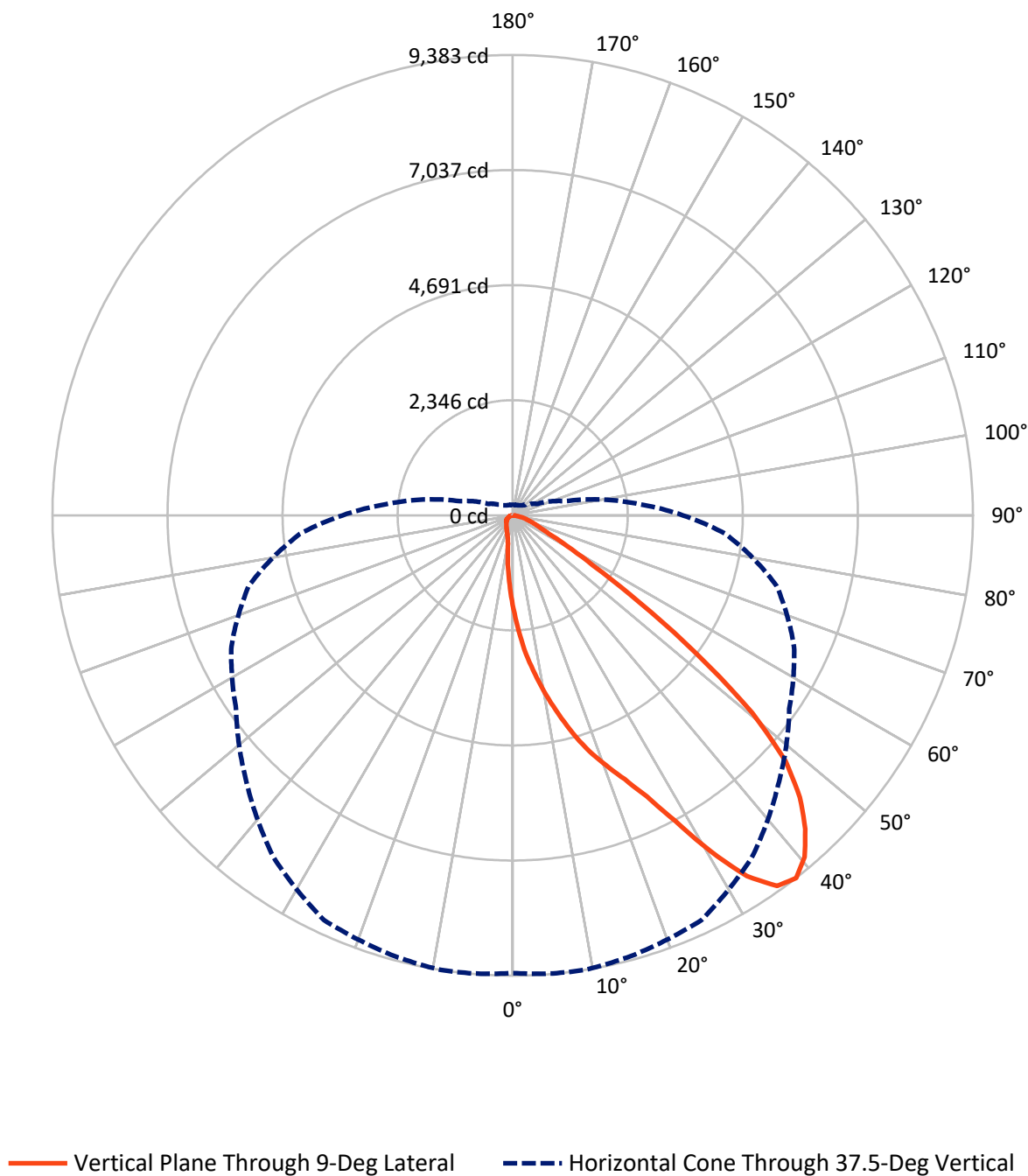
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	1750.5	0.0	1750.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12642.6	0.0	12642.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	14393.0	0.0	14393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.3
10°-20°	664.7	4.6
20°-30°	1365.8	9.5
30°-40°	2414.1	16.8
40°-50°	3206.9	22.3
50°-60°	3041.6	21.1
60°-70°	2320.5	16.1
70°-80°	1124.9	7.8
80°-90°	63.3	0.4
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°	14393.0	100.0
0°-180°	14393.0	100.0

Coefficient of Utilization



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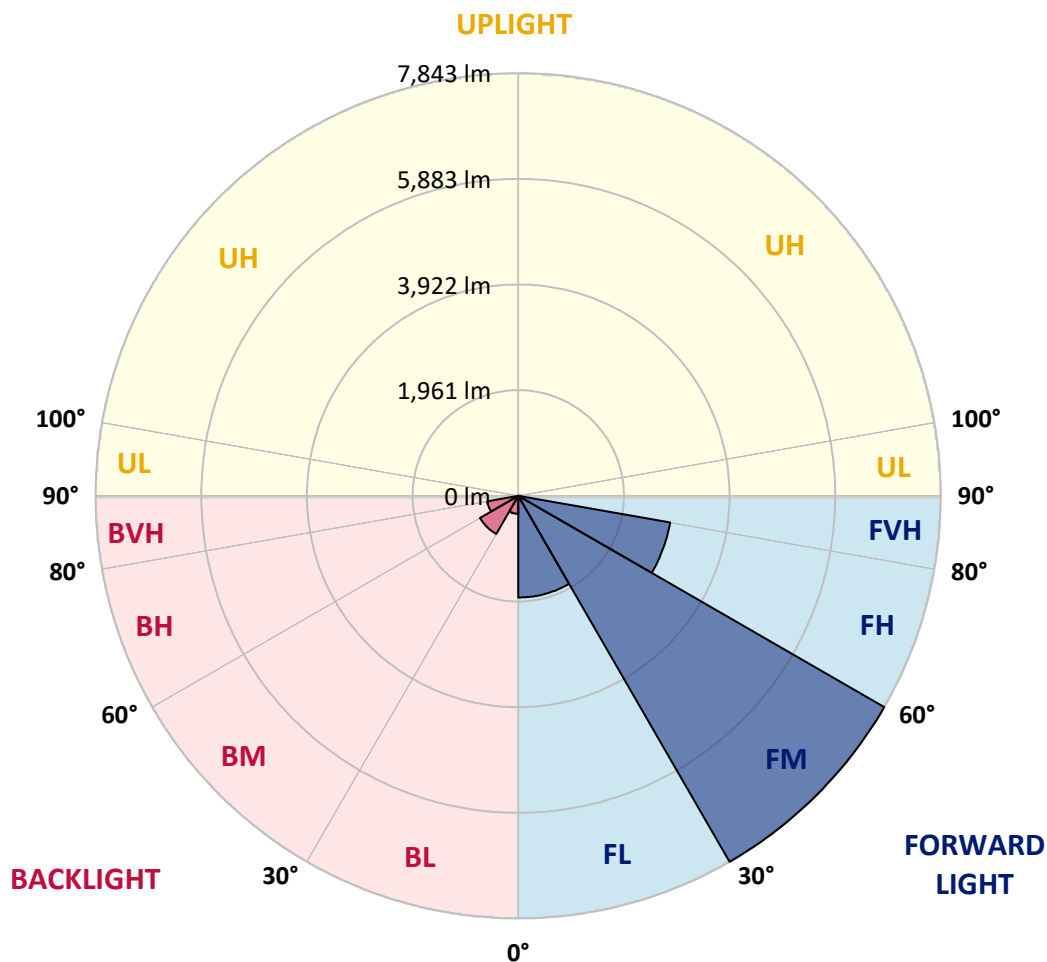
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1887.6	13.1			
FM	(30°-60°)	7843.5	54.5			
FH	(60°-80°)	2861.3	19.9			G2/5000
FVH	(80°-90°)	50.1	0.3			G1/100
BL	(0°-30°)	334.1	2.3	B1/500		
BM	(30°-60°)	819.1	5.7	B1/1000		
BH	(60°-80°)	584.1	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6
2.5°	2357.5	2316.2	2363.5	2357.5	2316.2	2289.6	2206.9	2180.3	2082.8	2011.9	1949.8
5°	2842.1	2800.7	2842.1	2830.2	2771.1	2706.2	2570.3	2481.6	2307.3	2153.7	2014.8
7.5°	3243.8	3243.8	3261.6	3264.5	3193.6	3093.2	2924.8	2791.8	2546.6	2310.3	2088.7
10°	3678.1	3681.1	3719.5	3692.9	3598.4	3462.5	3249.7	3081.4	2785.9	2475.7	2159.6
12.5°	4142.0	4144.9	4156.7	4144.9	4032.6	3858.3	3601.3	3379.7	3040.0	2664.8	2257.1
15°	4605.8	4608.7	4623.5	4602.8	4478.7	4274.9	3982.4	3710.6	3308.8	2877.5	2375.3
17.5°	5040.1	5046.0	5057.8	5031.2	4901.2	4659.0	4360.6	4032.6	3595.4	3105.0	2508.2
20°	5430.0	5435.9	5444.8	5409.4	5279.4	5037.1	4715.1	4372.4	3887.9	3338.4	2653.0
22.5°	5823.0	5828.9	5843.6	5796.4	5651.6	5373.9	5057.8	4703.3	4198.1	3595.4	2821.4
25°	6325.2	6331.1	6342.9	6275.0	6077.0	5752.1	5418.2	5054.8	4534.9	3884.9	3028.2
27.5°	7060.8	7054.9	7054.9	6930.8	6591.1	6168.6	5781.6	5412.3	4898.3	4195.1	3255.7
30°	7970.7	7956.0	7947.1	7778.7	7294.2	6638.4	6153.8	5746.1	5246.9	4523.1	3500.9
32.5°	8786.1	8786.1	8768.4	8591.2	8077.1	7270.6	6549.7	6071.1	5583.7	4853.9	3754.9
35°	9267.7	9288.4	9279.5	9146.6	8771.4	7950.1	7084.5	6461.1	5938.2	5199.6	4059.2
37.5°	9332.7	9374.0	9382.9	9303.1	9105.2	8505.5	7678.3	6883.6	6328.1	5571.8	4354.7
40°	9069.8	9158.4	9158.4	9146.6	9075.7	8768.4	8177.6	7374.0	6729.9	5958.9	4653.1
42.5°	8665.0	8756.6	8744.8	8789.1	8771.4	8706.4	8458.2	7831.9	7131.7	6357.7	4924.8
45°	8136.2	8230.7	8207.1	8286.9	8322.3	8393.2	8428.7	8151.0	7527.6	6792.0	5229.1
47.5°	7288.3	7447.8	7483.3	7625.1	7772.8	7994.4	8162.8	8266.2	7896.9	7258.8	5560.0
50°	6035.7	6260.2	6331.1	6629.5	7034.2	7492.1	7763.9	8124.4	8156.9	7737.4	5917.5
52.5°	4322.2	4582.1	4691.5	5181.9	6015.0	6812.7	7303.1	7811.2	8257.3	8195.3	6304.5
55°	2794.8	3016.4	3122.7	3583.6	4691.5	5944.1	6759.5	7406.5	8201.2	8614.8	6747.7
57.5°	1722.4	1849.4	1920.3	2316.2	3335.4	4830.3	6047.5	7034.2	8029.8	8978.2	7208.5
60°	1161.0	1234.9	1270.4	1456.5	2266.0	3610.2	5069.6	6644.3	7805.3	9223.4	7628.0
62.5°	771.1	794.7	830.2	945.4	1494.9	2534.8	3893.8	5947.0	7636.9	9238.2	7938.3
65°	596.8	608.6	623.4	673.6	921.7	1772.6	2738.7	4818.5	7385.8	8925.0	8035.7
67.5°	469.7	481.6	499.3	525.9	667.7	1202.4	1864.2	3530.4	6871.7	8434.6	7876.2
70°	369.3	378.2	390.0	413.6	520.0	871.5	1232.0	2345.7	5834.8	7967.8	7374.0
72.5°	292.5	301.3	313.2	336.8	422.5	638.1	844.9	1462.4	4499.4	7397.6	6407.9
75°	230.4	236.3	245.2	268.8	339.7	496.3	573.1	874.5	3057.7	6354.7	4992.8
77.5°	115.2	141.8	162.5	186.1	248.2	342.7	381.1	484.5	1291.0	3261.6	2381.2
80°	67.9	82.7	88.6	103.4	162.5	206.8	206.8	195.0	407.7	1252.6	972.0
82.5°	38.4	53.2	56.1	59.1	97.5	118.2	94.5	70.9	82.7	419.5	283.6
85°	11.8	17.7	20.7	23.6	32.5	35.5	32.5	29.5	23.6	41.4	26.6
87.5°	0.0	0.0	0.0	0.0	3.0	5.9	5.9	5.9	8.9	8.9	8.9
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°	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6	1902.6
2.5°	1914.4	1876.0	1802.1	1734.2	1669.2	1621.9	1577.6	1536.2	1506.7	1483.1	1480.1
5°	1941.0	1864.2	1722.4	1589.4	1468.3	1367.8	1282.2	1214.2	1164.0	1128.5	1125.6
7.5°	1976.4	1858.3	1642.6	1444.7	1264.4	1119.7	995.6	904.0	839.0	812.4	791.8
10°	2006.0	1852.4	1562.8	1299.9	1063.6	880.4	732.7	641.1	593.8	576.1	567.2
12.5°	2056.2	1858.3	1494.9	1167.0	889.2	673.6	561.3	511.1	490.4	475.6	472.7
15°	2130.1	1884.9	1429.9	1037.0	712.0	543.6	478.6	446.1	425.4	422.5	419.5
17.5°	2203.9	1908.5	1370.8	904.0	590.9	472.7	428.4	401.8	387.0	384.1	384.1
20°	2289.6	1938.0	1305.8	777.0	505.2	425.4	390.0	369.3	351.6	348.6	348.6
22.5°	2390.0	1979.4	1243.8	664.7	449.1	390.0	360.4	336.8	322.0	319.1	319.1
25°	2525.9	2041.4	1193.5	582.0	410.7	360.4	333.8	313.2	301.3	295.4	295.4
27.5°	2676.6	2127.1	1158.1	531.8	384.1	336.8	310.2	292.5	280.7	274.8	274.8
30°	2845.0	2221.6	1134.5	511.1	369.3	316.1	292.5	274.8	260.0	257.0	257.0
32.5°	3031.1	2331.0	1119.7	514.1	366.3	301.3	274.8	257.0	245.2	239.3	239.3
35°	3237.9	2452.1	1110.8	531.8	372.2	289.5	260.0	242.3	230.4	224.5	224.5
37.5°	3468.4	2593.9	1110.8	549.5	387.0	286.6	245.2	227.5	218.6	212.7	212.7
40°	3684.0	2744.6	1122.6	570.2	401.8	286.6	233.4	218.6	206.8	200.9	200.9
42.5°	3852.4	2830.2	1131.5	590.9	410.7	283.6	221.6	206.8	197.9	192.0	192.0
45°	4044.5	2921.8	1113.8	599.7	410.7	277.7	212.7	197.9	189.1	183.2	183.2
47.5°	4257.2	3034.1	1110.8	605.6	401.8	265.9	203.8	189.1	183.2	177.3	177.3
50°	4472.8	3158.2	1116.7	602.7	390.0	248.2	192.0	183.2	174.3	168.4	168.4
52.5°	4718.0	3288.2	1128.5	596.8	363.4	227.5	183.2	174.3	165.4	159.5	156.6
55°	4989.8	3430.0	1152.2	585.0	327.9	206.8	174.3	165.4	153.6	147.7	144.8
57.5°	5303.0	3604.3	1178.8	561.3	289.5	189.1	165.4	153.6	135.9	127.0	124.1
60°	5601.4	3802.2	1208.3	505.2	251.1	171.4	156.6	138.9	121.1	115.2	112.3
62.5°	5882.0	3997.2	1223.1	404.7	212.7	156.6	147.7	127.0	109.3	103.4	100.4
65°	6062.3	4209.9	1190.6	274.8	174.3	144.8	135.9	118.2	100.4	91.6	91.6
67.5°	6074.1	4310.3	1078.3	180.2	141.8	130.0	124.1	106.4	88.6	82.7	79.8
70°	5775.7	4159.7	824.3	141.8	118.2	112.3	112.3	94.5	76.8	70.9	67.9
72.5°	5090.3	3684.0	525.9	115.2	100.4	94.5	94.5	79.8	67.9	59.1	56.1
75°	4017.9	2842.1	280.7	94.5	82.7	79.8	73.9	65.0	56.1	50.2	47.3
77.5°	1846.4	1252.6	130.0	67.9	62.0	62.0	56.1	47.3	44.3	38.4	38.4
80°	729.7	425.4	65.0	44.3	41.4	41.4	41.4	32.5	32.5	26.6	23.6
82.5°	200.9	88.6	32.5	26.6	26.6	26.6	23.6	20.7	20.7	17.7	17.7
85°	20.7	14.8	14.8	14.8	14.8	11.8	11.8	8.9	5.9	5.9	5.9
87.5°	8.9	8.9	8.9	8.9	8.9	5.9	3.0	0.0	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)