

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: P841653

Luminaire Tested: **ARCH4-210-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841653
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: ARCH4-210-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA 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: 19214 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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

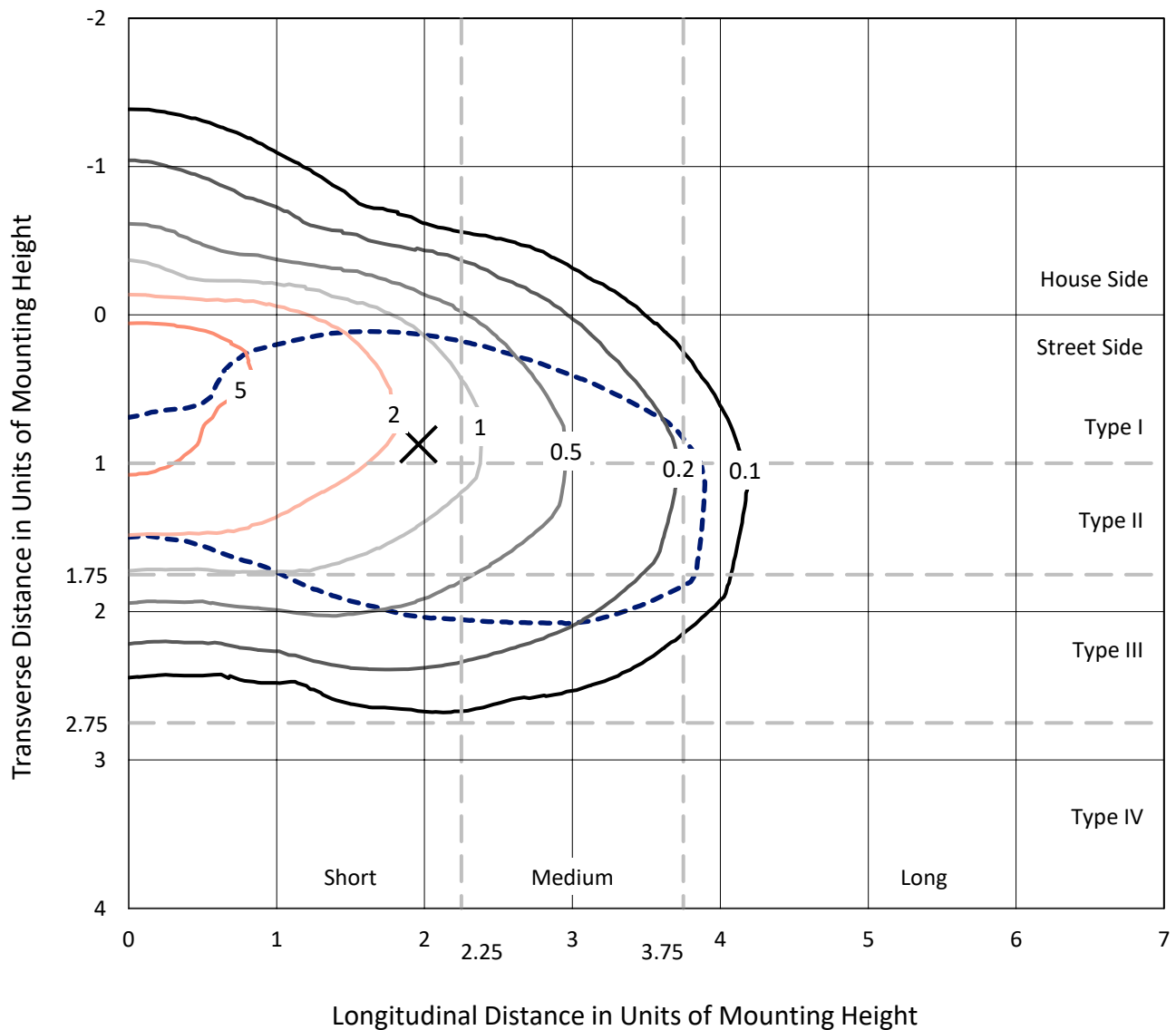


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Iso-Footcandle Lines of Horizontal Illumination

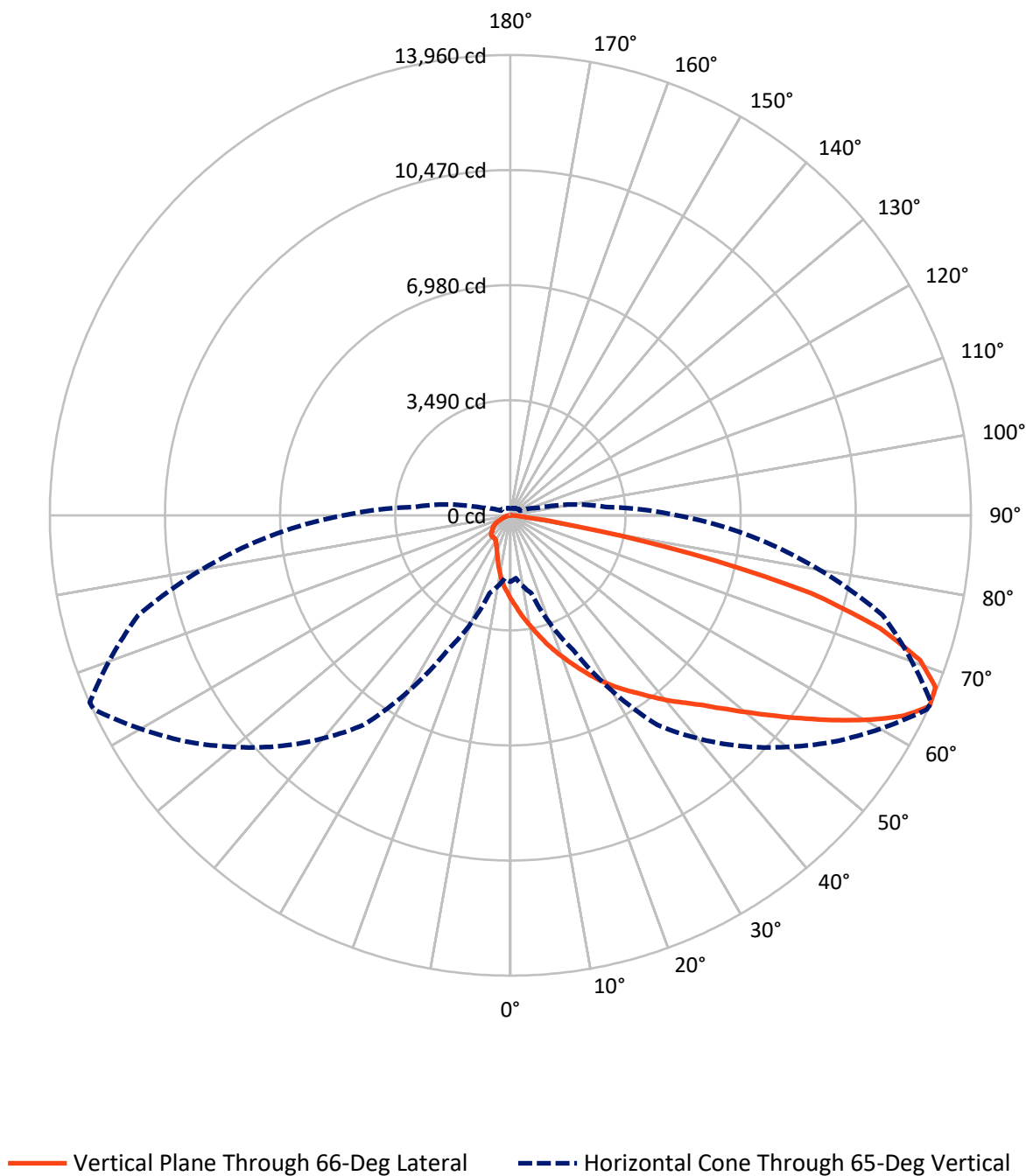
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2032.3	0.0	2032.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	17181.7	0.0	17181.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	19214.0	0.0	19214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.3
10°-20°	818.0	4.3
20°-30°	1480.1	7.7
30°-40°	2314.4	12.0
40°-50°	3510.9	18.3
50°-60°	4460.8	23.2
60°-70°	4168.1	21.7
70°-80°	2071.5	10.8
80°-90°	139.2	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°	19214.0	100.0
0°-180°	19214.0	100.0

Coefficient of Utilization



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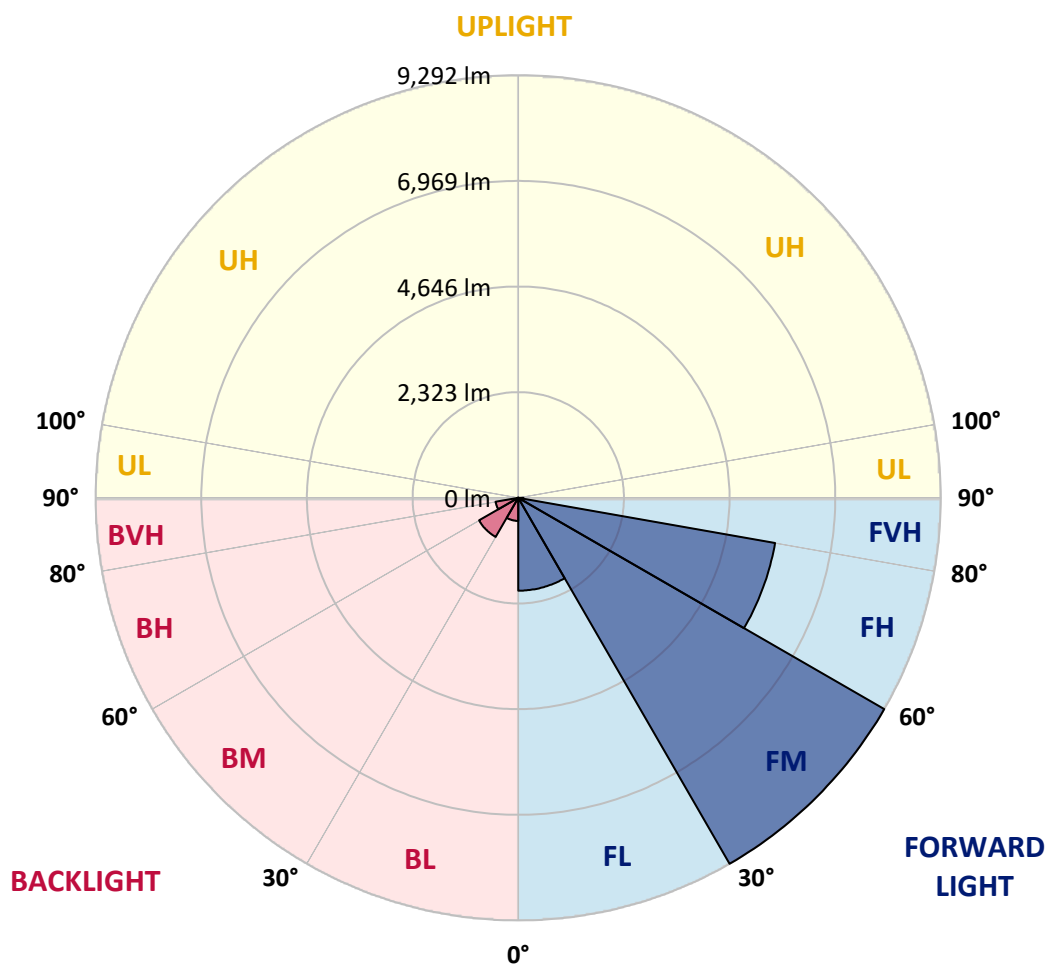
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2041.5	10.6			
FM	(30°-60°)	9292.1	48.4			
FH	(60°-80°)	5733.5	29.8			G3/7500
FVH	(80°-90°)	114.5	0.6			G2/225
BL	(0°-30°)	507.6	2.6	B2/1000		
BM	(30°-60°)	994.0	5.2	B1/1000		
BH	(60°-80°)	506.1	2.6	B2/1000		G2/1000
BVH	(80°-90°)	24.6	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9
2.5°	2970.0	2994.2	3006.3	3010.3	2917.6	2877.3	2837.1	2744.4	2724.2	2671.8	2603.3
5°	3493.9	3526.2	3518.1	3502.0	3389.1	3260.2	3155.4	2982.1	2953.9	2829.0	2675.9
7.5°	4009.8	4038.0	4029.9	3969.5	3844.5	3663.2	3489.9	3236.0	3195.7	2994.2	2748.4
10°	4441.0	4465.1	4461.1	4400.7	4251.5	4029.9	3820.3	3481.8	3433.5	3147.4	2808.8
12.5°	4795.6	4827.8	4823.8	4783.5	4650.5	4408.7	4170.9	3763.9	3703.5	3332.7	2893.5
15°	5073.6	5113.9	5113.9	5097.8	5005.1	4803.6	4533.6	4074.2	4001.7	3546.3	2998.2
17.5°	5242.9	5275.1	5303.3	5331.6	5267.1	5113.9	4868.1	4384.5	4308.0	3755.9	3107.1
20°	5331.6	5363.8	5383.9	5444.4	5456.5	5379.9	5186.5	4690.8	4610.2	3993.6	3232.0
22.5°	5476.6	5504.8	5508.9	5561.3	5585.4	5605.6	5484.7	4993.0	4928.6	4255.6	3373.0
25°	5718.4	5750.7	5738.6	5762.8	5766.8	5791.0	5778.9	5339.6	5275.1	4553.8	3542.3
27.5°	6028.7	6069.0	6061.0	6036.8	6000.5	5980.4	6032.8	5690.2	5629.8	4852.0	3715.6
30°	6363.2	6411.6	6399.5	6351.1	6254.4	6169.8	6242.3	6020.7	5964.3	5158.3	3909.0
32.5°	6701.7	6758.1	6754.1	6673.5	6508.3	6363.2	6472.0	6331.0	6290.7	5488.7	4118.6
35°	6923.4	6995.9	6987.8	6939.5	6725.9	6601.0	6734.0	6649.3	6621.1	5891.7	4420.8
37.5°	7282.0	7358.6	7290.1	7169.2	6923.4	6858.9	7020.1	7008.0	6987.8	6318.9	4739.2
40°	8152.5	8265.3	8084.0	7588.3	7185.3	7128.9	7358.6	7407.0	7386.8	6742.0	5025.3
42.5°	9063.2	9232.5	8950.4	8265.3	7660.8	7455.3	7729.3	7797.9	7773.7	7104.7	5283.2
45°	9615.3	9687.9	9405.8	8873.8	8503.1	7850.2	8124.3	8237.1	8217.0	7539.9	5613.7
47.5°	10066.7	10038.5	9716.1	9357.4	9425.9	8406.4	8571.6	8793.2	8777.1	8019.5	5976.3
50°	10163.4	10098.9	9970.0	9744.3	9925.6	8970.6	9043.1	9425.9	9409.8	8551.4	6343.1
52.5°	9482.4	9397.7	9748.3	9937.7	9877.3	9381.6	9563.0	10119.1	10111.0	9127.7	6693.7
55°	7781.7	7713.2	8656.2	9635.5	9824.9	9671.8	10139.2	10840.4	10884.8	9740.3	7012.0
57.5°	6121.4	6048.9	6975.8	8877.9	9631.5	9937.7	10812.2	11666.6	11723.0	10405.2	7314.3
60°	4880.2	4771.4	5480.7	7685.0	9268.8	10143.3	11461.0	12573.3	12581.4	11013.7	7499.6
62.5°	3316.6	3195.7	3981.5	6173.8	8660.3	10175.5	11960.7	13355.1	13387.3	11469.1	7531.9
65°	2015.0	1914.2	2446.1	4509.5	7761.6	9901.5	11968.8	13931.4	13959.6	11678.7	7338.4
67.5°	1168.7	1128.4	1398.4	2808.8	6270.5	9164.0	11465.1	13842.7	13895.1	11590.0	6899.2
70°	681.1	677.0	777.8	1390.3	4424.8	7701.1	10340.7	13097.2	13173.7	11126.6	6226.2
72.5°	499.7	507.8	548.1	745.5	2563.0	5545.1	8757.0	11598.1	11714.9	10219.8	5267.1
75°	394.9	399.0	435.2	507.8	1346.0	3135.3	6560.7	9309.1	9401.8	8603.8	4114.5
77.5°	294.2	302.2	330.5	358.7	624.6	1438.7	3691.4	5734.5	5581.4	4723.0	1986.7
80°	213.6	233.7	245.8	257.9	330.5	556.1	1108.2	1998.8	1982.7	2063.3	939.0
82.5°	137.0	153.1	165.2	173.3	197.5	266.0	330.5	447.3	483.6	802.0	374.8
85°	60.4	68.5	76.6	92.7	84.6	92.7	137.0	88.7	76.6	120.9	68.5
87.5°	0.0	0.0	12.1	20.1	16.1	8.1	24.2	16.1	12.1	12.1	12.1
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°	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9	2542.9
2.5°	2567.0	2522.7	2430.0	2341.4	2289.0	2220.5	2160.0	2103.6	2099.6	2083.5	2055.2
5°	2599.3	2514.7	2341.4	2176.1	2051.2	1918.2	1805.4	1716.7	1684.5	1660.3	1628.1
7.5°	2631.5	2498.5	2240.6	1998.8	1801.4	1616.0	1483.0	1362.1	1325.8	1293.6	1273.4
10°	2643.6	2470.3	2123.8	1801.4	1543.5	1346.0	1204.9	1116.3	1084.0	1067.9	1055.8
12.5°	2679.9	2454.2	2015.0	1616.0	1317.8	1136.4	1035.7	983.3	971.2	959.1	947.0
15°	2728.2	2454.2	1906.1	1434.6	1140.5	995.4	934.9	898.7	890.6	886.6	878.5
17.5°	2780.6	2454.2	1801.4	1281.5	1011.5	902.7	858.4	838.2	834.2	830.2	826.1
20°	2853.2	2458.2	1688.5	1148.5	918.8	834.2	797.9	773.7	769.7	765.7	765.7
22.5°	2925.7	2466.3	1579.7	1047.8	858.4	781.8	737.5	713.3	705.2	705.2	705.2
25°	3018.4	2490.5	1479.0	963.1	806.0	733.4	677.0	656.9	652.8	652.8	648.8
27.5°	3127.2	2518.7	1390.3	898.7	753.6	677.0	620.6	600.5	592.4	592.4	588.4
30°	3244.1	2546.9	1317.8	850.3	701.2	620.6	568.2	544.0	536.0	540.0	536.0
32.5°	3373.0	2587.2	1261.4	818.1	652.8	572.2	523.9	495.7	491.6	491.6	487.6
35°	3590.6	2700.0	1253.3	802.0	612.5	536.0	487.6	459.4	455.4	455.4	451.3
37.5°	3824.4	2829.0	1289.6	793.9	580.3	503.7	459.4	431.2	427.2	427.2	427.2
40°	4021.8	2925.7	1329.9	793.9	560.2	475.5	435.2	411.0	411.0	411.0	411.0
42.5°	4154.8	2933.8	1321.8	793.9	544.0	455.4	419.1	394.9	394.9	399.0	394.9
45°	4352.3	2974.1	1289.6	781.8	531.9	439.3	403.0	382.8	378.8	382.8	382.8
47.5°	4586.0	3046.6	1257.3	733.4	527.9	423.1	390.9	366.7	362.7	366.7	362.7
50°	4807.7	3111.1	1241.2	669.0	519.9	407.0	374.8	350.6	346.6	350.6	346.6
52.5°	4993.0	3139.3	1213.0	624.6	499.7	390.9	358.7	334.5	326.4	330.5	330.5
55°	5142.2	3131.2	1172.7	588.4	463.4	374.8	338.5	318.4	306.3	306.3	302.2
57.5°	5279.2	3135.3	1136.4	552.1	423.1	350.6	322.4	298.2	282.1	278.1	274.0
60°	5331.6	3115.1	1072.0	503.7	382.8	330.5	302.2	274.0	257.9	253.9	249.9
62.5°	5259.0	3042.6	987.3	419.1	346.6	306.3	282.1	253.9	237.8	233.7	229.7
65°	5053.5	2905.6	858.4	330.5	314.3	278.1	257.9	237.8	217.6	209.6	205.5
67.5°	4702.9	2708.1	697.2	266.0	278.1	253.9	241.8	217.6	193.4	185.4	181.3
70°	4203.2	2446.1	523.9	225.7	245.8	225.7	217.6	193.4	173.3	165.2	161.2
72.5°	3502.0	2023.0	366.7	193.4	213.6	197.5	189.4	173.3	153.1	141.0	141.0
75°	2647.6	1450.8	241.8	165.2	177.3	169.3	157.2	145.1	133.0	124.9	120.9
77.5°	1140.5	564.2	149.1	124.9	145.1	141.0	124.9	116.9	112.8	104.8	104.8
80°	491.6	229.7	92.7	92.7	104.8	100.7	96.7	88.7	88.7	84.6	80.6
82.5°	181.3	92.7	56.4	68.5	76.6	68.5	68.5	68.5	68.5	64.5	64.5
85°	44.3	28.2	28.2	40.3	44.3	40.3	44.3	40.3	40.3	40.3	36.3
87.5°	12.1	12.1	16.1	16.1	16.1	16.1	16.1	12.1	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)