

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: P841740

Luminaire Tested: **ARCH4-220-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

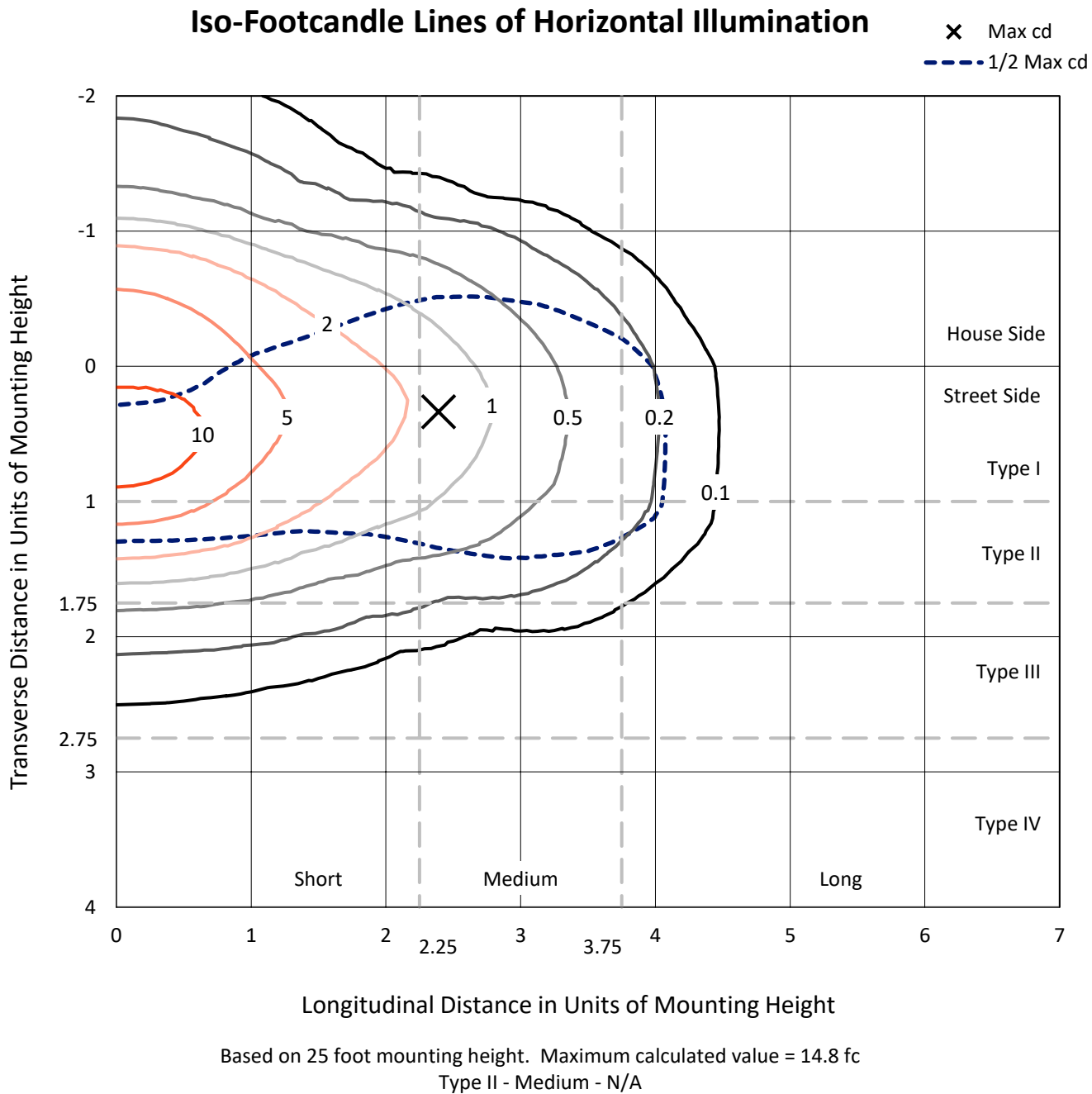
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33652 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 221.8
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

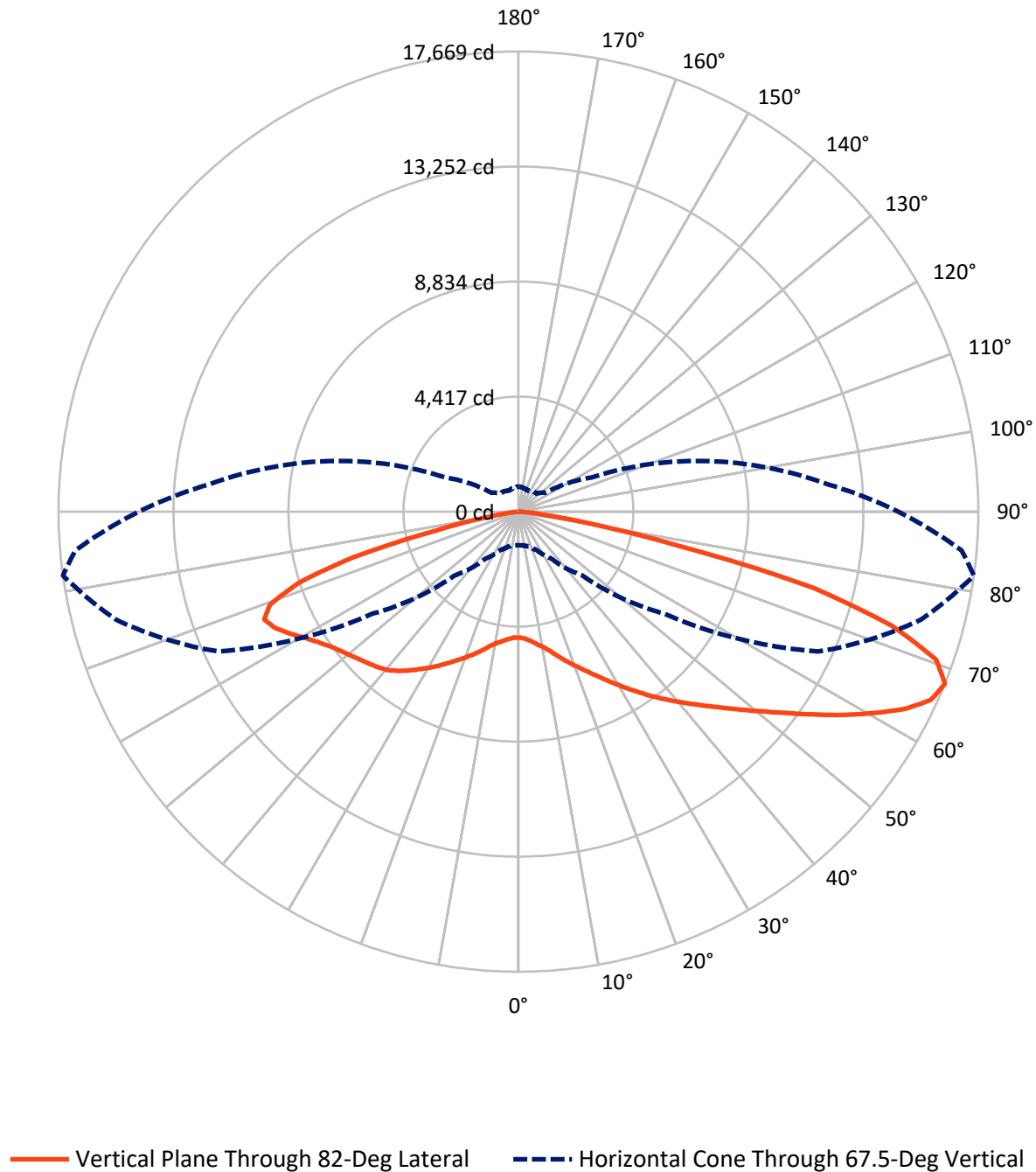


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10248.4	0.0	10248.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	23403.6	0.0	23403.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	33652.0	0.0	33652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.9	1.5
10°-20°	1800.8	5.4
20°-30°	3619.1	10.8
30°-40°	5685.1	16.9
40°-50°	6925.6	20.6
50°-60°	6543.8	19.4
60°-70°	5403.7	16.1
70°-80°	2942.6	8.7
80°-90°	231.4	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°	33652.0	100.0
0°-180°	33652.0	100.0

Coefficient of Utilization



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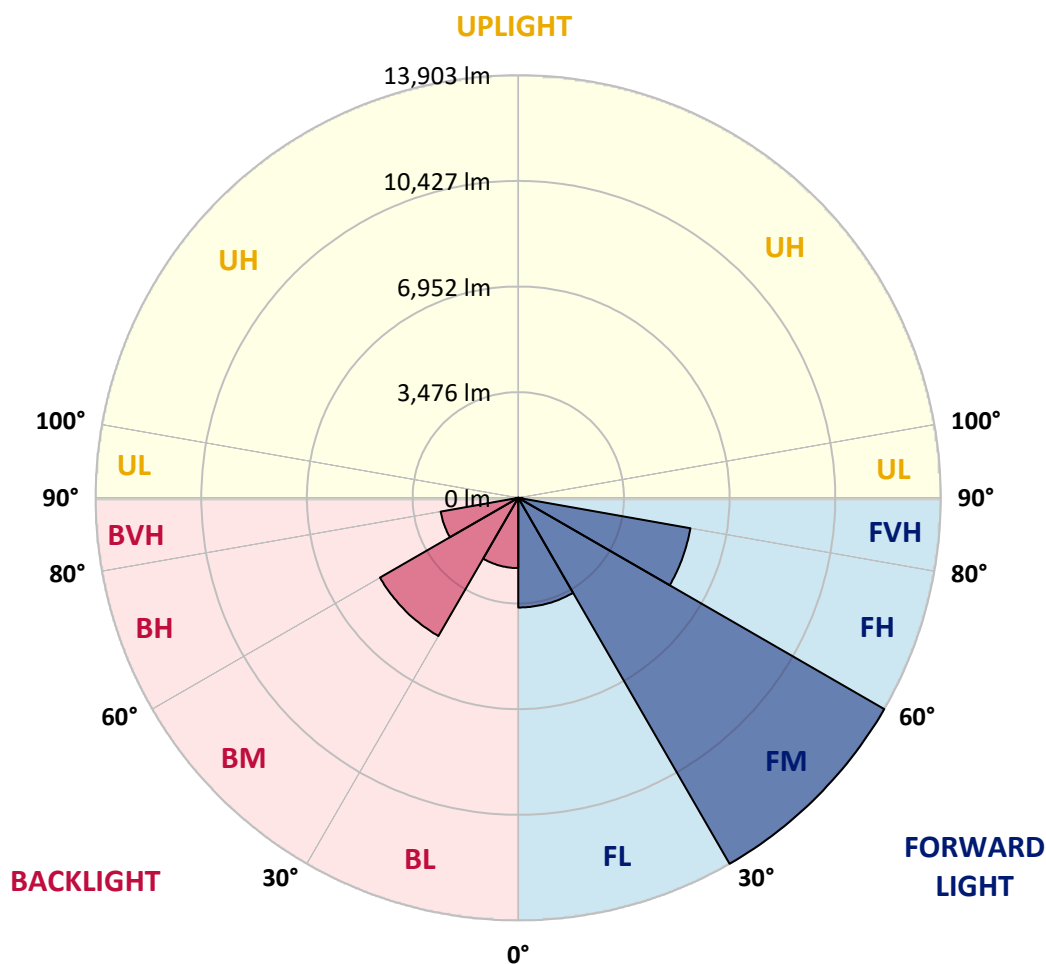
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3608.7	10.7			
FM	(30°-60°)	13903.1	41.3			
FH	(60°-80°)	5752.3	17.1			G3/7500
FVH	(80°-90°)	139.5	0.4			G2/225
BL	(0°-30°)	2311.1	6.9	B3/2500		
BM	(30°-60°)	5251.5	15.6	B4/8500		
BH	(60°-80°)	2593.9	7.7	B4/5000		G4/5000
BVH	(80°-90°)	91.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5
2.5°	5057.3	5057.3	5096.4	5096.4	5062.2	5008.5	4993.8	4935.2	4881.4	4881.4	4886.3
5°	5541.1	5536.2	5565.5	5526.4	5443.4	5335.9	5262.6	5135.5	5028.0	4993.8	4988.9
7.5°	6132.3	6127.4	6142.1	6078.6	5922.2	5746.3	5599.7	5394.5	5218.6	5145.3	5125.8
10°	6792.0	6787.1	6772.4	6664.9	6454.8	6181.2	5961.3	5677.9	5414.0	5296.8	5272.3
12.5°	7549.4	7539.6	7505.4	7349.0	7060.7	6708.9	6391.3	6024.8	5673.0	5511.8	5458.0
15°	8394.7	8380.0	8316.5	8126.0	7739.9	7295.3	6884.8	6415.7	5985.7	5775.6	5702.3
17.5°	9284.0	9284.0	9186.3	8902.9	8472.9	7920.7	7412.5	6816.4	6313.1	6054.2	5966.2
20°	10188.0	10183.1	10060.9	9718.9	9210.7	8575.5	7930.5	7275.7	6650.3	6337.6	6230.1
22.5°	11140.8	11131.0	10979.6	10588.7	9982.8	9264.5	8512.0	7730.2	7021.6	6645.4	6508.6
25°	12235.3	12220.7	12035.0	11556.1	10837.9	10026.7	9166.7	8262.8	7446.8	6987.4	6826.2
27.5°	13398.3	13378.7	13158.9	12601.8	11815.1	10837.9	9889.9	8878.4	7915.8	7368.6	7187.8
30°	14434.2	14419.5	14180.1	13608.4	12704.4	11644.1	10578.9	9494.1	8409.4	7774.1	7549.4
32.5°	15216.0	15216.0	15001.0	14439.1	13500.9	12416.1	11272.7	10075.6	8922.4	8209.0	7945.2
35°	15690.0	15704.6	15519.0	15069.4	14185.0	13144.2	11991.0	10759.7	9469.7	8673.2	8389.8
37.5°	15758.4	15807.2	15699.7	15396.8	14659.0	13750.1	12694.7	11419.3	10036.5	9142.3	8824.7
40°	15440.8	15475.0	15479.9	15362.6	14854.4	14185.0	13315.2	12118.1	10637.5	9635.8	9269.4
42.5°	14805.6	14830.0	14874.0	14908.2	14712.7	14375.6	13789.2	12768.0	11277.6	10139.1	9709.1
45°	13984.7	13979.8	14053.1	14199.6	14189.9	14268.1	14053.1	13359.2	11942.2	10710.8	10197.8
47.5°	12758.2	12733.8	12992.7	13325.0	13491.1	13857.6	14057.9	13823.4	12665.3	11341.2	10754.8
50°	10837.9	10813.4	11380.2	12162.1	12650.7	13207.7	13789.2	14101.9	13422.7	12049.7	11360.7
52.5°	8502.2	8477.8	9196.1	10564.2	11629.4	12440.6	13246.8	14165.4	14141.0	12841.3	12044.8
55°	6322.9	6303.4	7002.1	8482.7	10207.5	11551.3	12582.3	13999.3	14815.3	13750.1	12875.5
57.5°	4456.3	4446.6	5052.5	6278.9	8380.0	10466.5	11942.2	13676.8	15435.9	14737.1	13813.6
60°	3127.2	3112.6	3552.4	4500.3	6337.6	8829.6	11306.9	13246.8	15900.1	15709.5	14810.4
62.5°	2106.0	2096.2	2409.0	3200.5	4500.3	6796.9	10344.3	12958.5	16163.9	16686.8	15817.0
65°	1597.8	1592.9	1734.6	2169.5	3185.9	4881.4	8814.9	12924.3	16198.2	17419.7	16672.1
67.5°	1290.0	1294.9	1373.1	1622.3	2203.7	3469.3	6836.0	12709.3	16017.4	17668.9	17087.5
70°	1055.4	1055.4	1089.6	1255.8	1627.1	2340.5	4773.9	11732.1	15514.1	17019.1	16593.9
72.5°	806.2	811.1	918.6	1016.4	1226.5	1641.8	3058.8	9709.1	14326.7	15005.9	14683.4
75°	640.1	635.2	698.7	835.6	952.8	1172.7	1876.3	6963.0	12191.4	11727.2	11521.9
77.5°	459.3	454.4	503.3	620.6	723.2	830.7	1119.0	3513.3	6630.7	6093.2	5941.8
80°	312.7	303.0	346.9	430.0	478.9	488.6	547.3	1348.6	2892.7	2726.6	2692.4
82.5°	161.2	161.2	185.7	244.3	249.2	254.1	244.3	434.9	957.7	894.2	855.1
85°	63.5	63.5	68.4	83.1	83.1	88.0	88.0	112.4	102.6	97.7	92.8
87.5°	4.9	4.9	9.8	9.8	14.7	14.7	14.7	19.5	24.4	24.4	24.4
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°	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5
2.5°	4876.5	4857.0	4793.5	4778.8	4769.0	4754.4	4759.3	4725.1	4710.4	4715.3	4695.8
5°	4964.5	4930.3	4852.1	4817.9	4808.1	4793.5	4808.1	4783.7	4759.3	4769.0	4759.3
7.5°	5086.7	5037.8	4940.1	4905.9	4901.0	4886.3	4905.9	4886.3	4866.8	4876.5	4857.0
10°	5213.7	5150.2	5042.7	5008.5	5008.5	5003.6	5023.1	4993.8	4974.3	4979.2	4969.4
12.5°	5399.4	5316.3	5199.0	5169.7	5155.1	5169.7	5174.6	5135.5	5101.3	5106.2	5091.5
15°	5624.2	5531.3	5404.3	5360.3	5350.5	5345.6	5326.1	5277.2	5233.2	5228.4	5213.7
17.5°	5868.5	5751.2	5599.7	5555.7	5511.8	5497.1	5448.2	5384.7	5316.3	5316.3	5296.8
20°	6103.0	5971.1	5790.3	5726.8	5663.2	5604.6	5521.5	5418.9	5331.0	5316.3	5296.8
22.5°	6357.1	6200.7	5990.6	5897.8	5785.4	5668.1	5526.4	5389.6	5277.2	5252.8	5238.1
25°	6640.5	6445.1	6195.9	6059.0	5878.2	5697.5	5487.3	5311.4	5179.5	5140.4	5130.6
27.5°	6953.2	6718.7	6415.7	6215.4	5951.5	5668.1	5399.4	5189.3	5028.0	4979.2	4964.5
30°	7270.8	6992.3	6616.1	6322.9	5951.5	5575.3	5238.1	4993.8	4808.1	4739.7	4730.0
32.5°	7588.5	7275.7	6796.9	6381.5	5892.9	5418.9	5028.0	4739.7	4529.6	4446.6	4466.1
35°	7969.6	7588.5	6963.0	6406.0	5795.2	5228.4	4788.6	4451.4	4236.4	4163.1	4177.8
37.5°	8365.4	7901.2	7094.9	6386.4	5658.4	5013.4	4519.8	4192.5	3923.7	3796.7	3811.3
40°	8707.4	8184.6	7187.8	6318.0	5482.5	4769.0	4256.0	3826.0	3454.6	3332.5	3317.8
42.5°	9029.9	8394.7	7236.6	6215.4	5282.1	4485.6	3879.7	3327.6	2956.2	2804.7	2809.6
45°	9367.1	8599.9	7217.1	6078.6	5032.9	4153.4	3396.0	2839.0	2511.6	2374.8	2379.6
47.5°	9753.1	8819.8	7197.6	5932.0	4730.0	3723.4	2931.8	2409.0	2125.5	2027.8	2018.1
50°	10163.5	9064.1	7173.1	5751.2	4392.8	3244.5	2472.5	2008.3	1768.8	1705.3	1690.7
52.5°	10627.7	9328.0	7158.5	5536.2	3987.2	2736.3	2062.0	1656.5	1495.2	1451.2	1446.4
55°	11184.8	9635.8	7178.0	5277.2	3498.6	2257.5	1715.1	1426.8	1319.3	1294.9	1290.0
57.5°	11864.0	10031.6	7236.6	4974.3	2985.5	1842.1	1461.0	1285.1	1216.7	1197.1	1197.1
60°	12601.8	10481.2	7344.1	4632.2	2472.5	1519.6	1294.9	1172.7	1143.4	1167.8	1167.8
62.5°	13398.3	11008.9	7534.7	4216.9	1993.6	1285.1	1162.9	1079.9	1060.3	1109.2	1114.1
65°	14136.1	11521.9	7656.9	3718.5	1583.2	1114.1	1060.3	987.0	996.8	1045.7	1040.8
67.5°	14590.6	11947.1	7485.8	3093.0	1255.8	987.0	952.8	889.3	913.7	952.8	957.7
70°	14312.0	11707.6	6640.5	2335.7	982.2	860.0	835.6	796.5	816.0	864.9	884.4
72.5°	12948.8	10486.0	5164.8	1578.3	791.6	723.2	732.9	713.4	737.8	781.8	825.8
75°	10510.5	7925.6	3464.4	1011.5	625.4	615.7	630.3	615.7	625.4	669.4	693.9
77.5°	5487.3	3865.1	1724.9	630.3	464.2	478.9	503.3	508.2	537.5	547.3	557.0
80°	2560.4	1739.5	718.3	351.8	307.8	337.2	386.0	390.9	400.7	415.3	420.2
82.5°	835.6	522.8	332.3	190.6	175.9	190.6	249.2	298.1	303.0	332.3	332.3
85°	88.0	53.7	73.3	78.2	68.4	83.1	112.4	107.5	48.9	29.3	29.3
87.5°	24.4	19.5	24.4	24.4	19.5	19.5	14.7	4.9	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)