

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: P841548

Luminaire Tested: **ARCH4-190-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30563 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 190
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

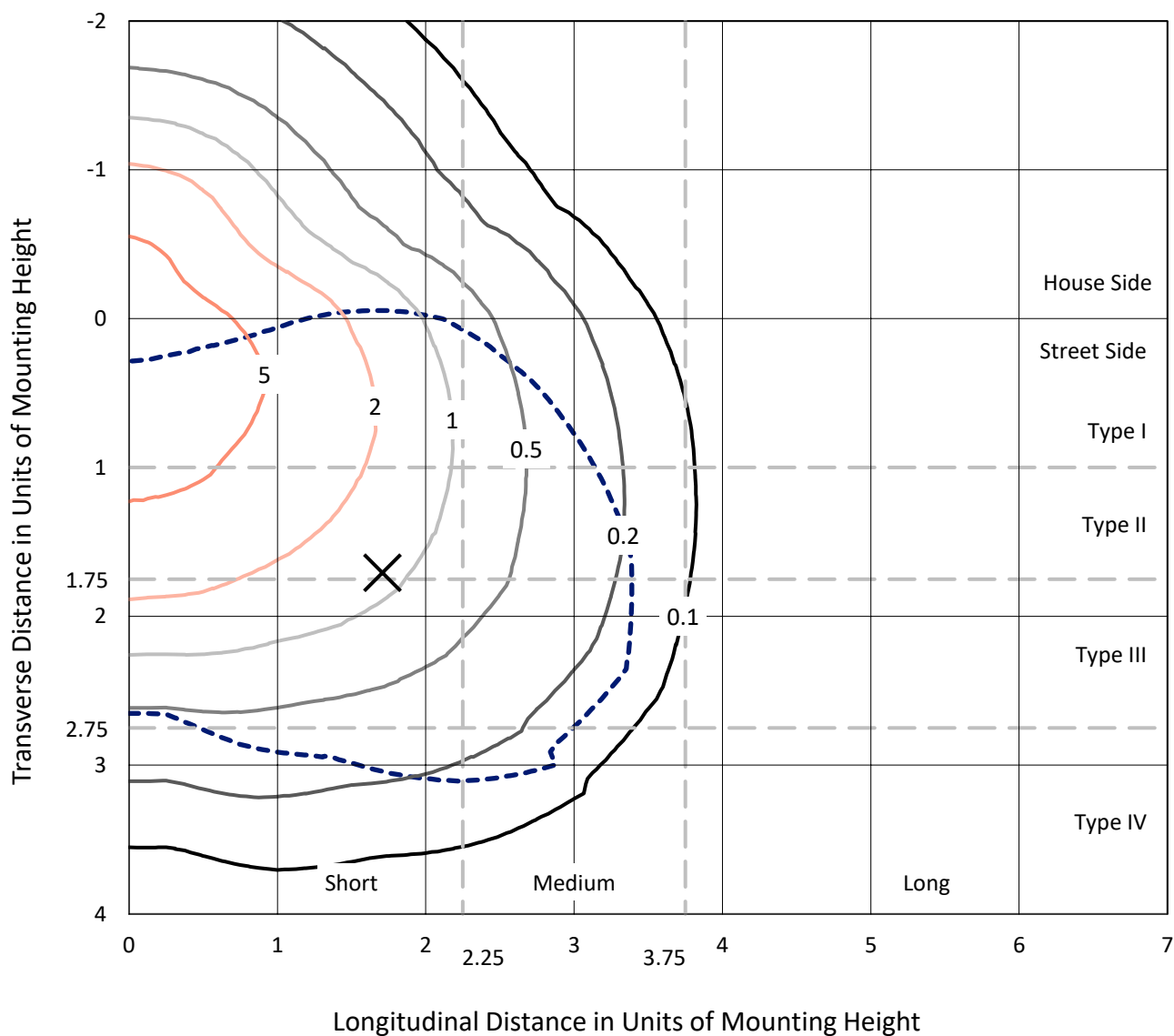


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Iso-Footcandle Lines of Horizontal Illumination

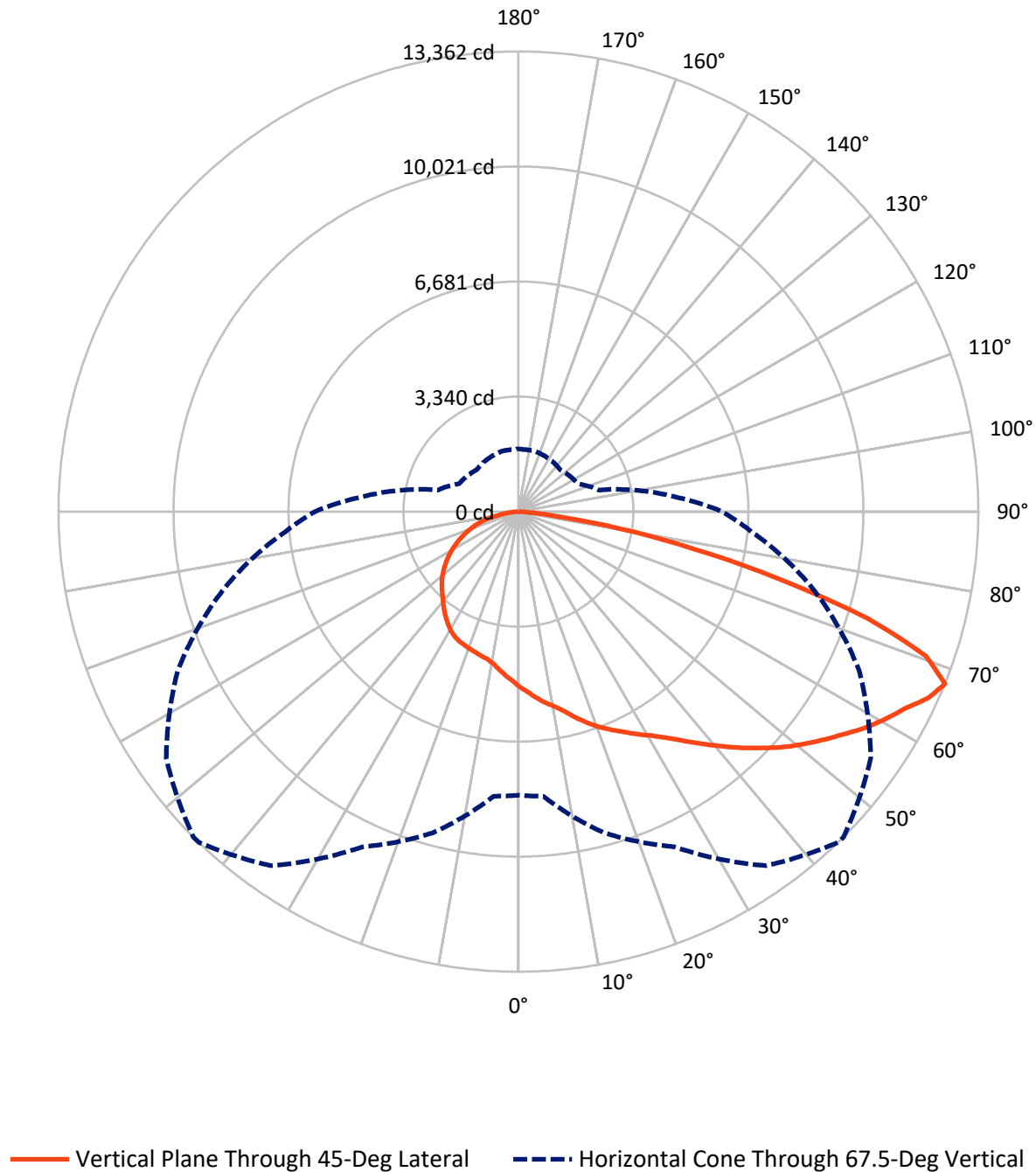
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8164.9	0.0	8164.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	22398.1	0.0	22398.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	30563.0	0.0	30563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.0	1.6
10°-20°	1507.6	4.9
20°-30°	2602.3	8.5
30°-40°	3837.5	12.6
40°-50°	5199.1	17.0
50°-60°	6354.5	20.8
60°-70°	6553.8	21.4
70°-80°	3589.7	11.7
80°-90°	430.3	1.4
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°	30563.0	100.0
0°-180°	30563.0	100.0

Coefficient of Utilization



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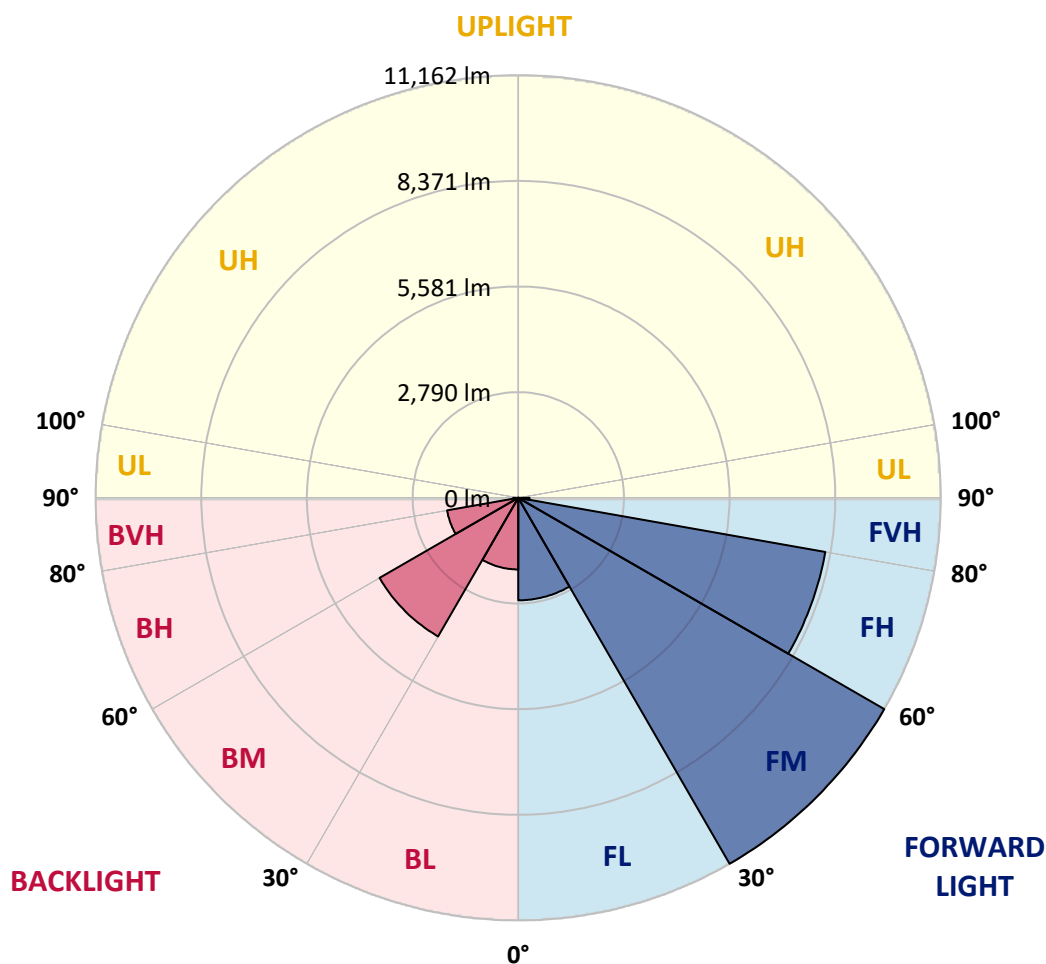
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2705.6	8.9			
FM	(30°-60°)	11161.9	36.5			
FH	(60°-80°)	8234.1	26.9			G4/12000
FVH	(80°-90°)	296.4	1.0			G3/500
BL	(0°-30°)	1892.4	6.2	B3/2500		
BM	(30°-60°)	4229.3	13.8	B3/5000		
BH	(60°-80°)	1909.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	133.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3
2.5°	5320.6	5315.9	5325.2	5292.7	5250.8	5246.2	5246.2	5218.3	5185.7	5120.6	5069.4
5°	5571.7	5562.4	5567.1	5520.6	5464.7	5436.8	5432.2	5371.7	5297.3	5195.0	5102.0
7.5°	5804.3	5795.0	5790.3	5739.1	5655.4	5608.9	5604.3	5515.9	5427.5	5269.4	5134.5
10°	6022.8	6013.5	6004.2	5934.5	5832.2	5762.4	5753.1	5641.5	5529.9	5334.5	5162.4
12.5°	6301.9	6283.3	6274.0	6190.3	6041.5	5967.0	5953.1	5804.3	5664.7	5427.5	5218.3
15°	6594.9	6580.9	6567.0	6487.9	6320.5	6222.8	6199.6	6013.5	5822.9	5548.5	5302.0
17.5°	6813.5	6799.5	6799.5	6729.8	6576.3	6464.7	6446.1	6222.8	5985.6	5660.1	5367.1
20°	6948.4	6934.4	6948.4	6906.5	6790.2	6697.2	6678.6	6432.1	6148.4	5762.4	5422.9
22.5°	7046.0	7032.1	7055.3	7036.7	6953.0	6897.2	6883.3	6641.4	6315.9	5869.4	5478.7
25°	7218.1	7218.1	7218.1	7185.6	7106.5	7087.9	7087.9	6878.6	6529.8	6008.9	5562.4
27.5°	7562.3	7543.7	7520.4	7427.4	7292.5	7287.9	7315.8	7120.4	6776.3	6190.3	5664.7
30°	8069.2	8059.9	7971.6	7776.2	7548.3	7525.1	7543.7	7380.9	7041.4	6381.0	5781.0
32.5°	8725.0	8692.4	8511.1	8218.0	7892.5	7785.5	7822.7	7650.6	7320.4	6576.3	5892.6
35°	9190.1	9199.4	9069.2	8804.1	8418.0	8134.3	8162.2	7952.9	7622.7	6794.9	6032.1
37.5°	9724.9	9757.5	9562.1	9362.2	9004.0	8520.4	8548.3	8264.6	7925.0	7069.3	6181.0
40°	10464.4	10399.3	10069.1	9831.9	9436.6	8925.0	8948.2	8613.4	8273.9	7329.7	6353.1
42.5°	11083.0	10966.7	10566.7	10264.4	9790.0	9352.9	9376.1	8990.1	8627.3	7618.1	6543.7
45°	11971.3	11650.4	11073.7	10924.8	10152.8	9771.4	9794.7	9390.1	8999.4	7925.0	6748.4
47.5°	12487.5	11975.9	11608.5	11529.5	10552.8	10204.0	10231.9	9813.3	9399.4	8273.9	6962.3
50°	12455.0	12124.8	12017.8	11822.5	10906.2	10608.6	10636.5	10250.5	9804.0	8618.0	7167.0
52.5°	12241.0	12301.5	12245.7	11920.1	11259.7	10999.3	11031.8	10683.0	10217.9	8938.9	7357.6
55°	12571.2	12613.1	12506.1	12078.3	11650.4	11389.9	11427.1	11138.8	10627.2	9222.6	7520.4
57.5°	12966.6	12817.7	12710.8	12357.3	12055.0	11813.2	11855.0	11603.9	10980.7	9450.5	7646.0
60°	12948.0	12636.4	12743.3	12375.9	12329.4	12203.8	12241.0	11985.2	11250.4	9618.0	7697.2
62.5°	11994.5	11827.1	12366.6	12241.0	12552.6	12552.6	12599.1	12217.8	11413.2	9687.7	7669.2
65°	10338.8	10348.1	11296.9	11817.8	12817.7	13031.7	13068.9	12362.0	11320.2	9483.1	7408.8
67.5°	8236.7	8297.1	9659.8	10743.5	12552.6	13357.2	13361.9	12492.2	10920.2	8906.4	6804.2
70°	6027.5	6074.0	7683.2	8999.4	11301.6	12636.4	12561.9	12124.8	10050.5	7901.8	5860.1
72.5°	4074.1	4116.0	5771.7	6911.2	9273.8	10762.1	10599.3	10715.6	8566.9	6492.6	4711.3
75°	2739.3	2790.5	4106.7	4943.9	6822.8	8171.5	7808.8	8115.7	6627.5	4915.9	3437.0
77.5°	1725.5	1758.0	2609.1	3241.6	4660.1	5562.4	5199.6	5204.3	3818.3	2646.3	1846.4
80°	1097.6	1106.9	1581.3	1869.6	2697.5	3344.0	2957.9	2404.5	1720.8	1404.6	1102.3
82.5°	637.2	623.2	944.1	1055.7	1283.6	1269.7	1051.1	995.3	753.4	702.3	562.8
85°	255.8	237.2	413.9	386.0	390.7	413.9	307.0	307.0	246.5	190.7	139.5
87.5°	51.2	51.2	55.8	51.2	51.2	55.8	41.9	41.9	37.2	37.2	37.2
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°	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3	5097.3
2.5°	5060.1	5050.8	5027.6	4967.1	4934.5	4915.9	4888.0	4878.7	4874.1	4878.7	4892.7
5°	5074.1	5041.5	4976.4	4878.7	4813.6	4771.8	4725.3	4706.7	4692.7	4692.7	4706.7
7.5°	5083.4	5032.2	4920.6	4776.4	4683.4	4618.3	4562.5	4539.2	4534.6	4548.5	4553.2
10°	5088.0	5013.6	4855.5	4674.1	4553.2	4469.5	4413.7	4399.7	4413.7	4441.6	4446.2
12.5°	5120.6	5018.3	4818.3	4604.3	4460.2	4376.4	4334.6	4334.6	4371.8	4423.0	4427.6
15°	5176.4	5050.8	4799.7	4548.5	4399.7	4325.3	4311.3	4334.6	4390.4	4469.5	4478.8
17.5°	5218.3	5069.4	4757.8	4474.1	4320.6	4274.1	4297.4	4353.2	4432.3	4539.2	4548.5
20°	5246.2	5069.4	4697.4	4385.7	4241.6	4232.3	4297.4	4385.7	4469.5	4595.0	4609.0
22.5°	5274.1	5060.1	4627.6	4278.8	4153.2	4181.1	4302.0	4413.7	4497.4	4632.2	4655.5
25°	5325.2	5074.1	4557.8	4171.8	4060.2	4139.3	4297.4	4432.3	4520.6	4660.1	4697.4
27.5°	5395.0	5106.6	4506.7	4074.1	3967.2	4074.1	4264.8	4427.6	4520.6	4655.5	4697.4
30°	5469.4	5143.8	4446.2	3967.2	3860.2	3981.1	4195.1	4376.4	4483.4	4609.0	4660.1
32.5°	5548.5	5185.7	4395.1	3850.9	3730.0	3855.6	4092.7	4297.4	4413.7	4529.9	4585.7
35°	5655.4	5260.1	4367.1	3757.9	3613.7	3725.3	3962.5	4195.1	4320.6	4427.6	4492.7
37.5°	5785.7	5353.1	4353.2	3664.9	3488.1	3581.2	3823.0	4069.5	4204.4	4292.7	4353.2
40°	5934.5	5469.4	4348.5	3576.5	3362.6	3432.3	3678.8	3925.3	4055.5	4125.3	4176.5
42.5°	6101.9	5599.6	4339.2	3488.1	3237.0	3292.8	3539.3	3781.1	3892.8	3953.2	3999.7
45°	6278.6	5729.8	4320.6	3381.2	3102.1	3167.2	3395.1	3609.1	3725.3	3776.5	3827.6
47.5°	6455.4	5860.1	4283.4	3260.2	2981.2	3041.7	3241.6	3427.7	3520.7	3567.2	3618.4
50°	6627.5	5976.3	4195.1	3120.7	2855.6	2911.4	3064.9	3190.5	3260.2	3297.5	3348.6
52.5°	6780.9	6055.4	4069.5	2957.9	2730.0	2758.0	2860.3	2967.2	3023.1	3027.7	3074.2
55°	6911.2	6097.3	3888.1	2790.5	2595.2	2599.8	2655.6	2739.3	2762.6	2744.0	2776.6
57.5°	6985.6	6074.0	3688.1	2618.4	2455.6	2437.0	2478.9	2520.8	2525.4	2478.9	2511.5
60°	7004.2	5967.0	3427.7	2446.3	2316.1	2265.0	2278.9	2269.6	2260.3	2241.7	2269.6
62.5°	6911.2	5739.1	3139.3	2278.9	2167.3	2088.2	2083.6	2078.9	2092.9	2097.5	2102.2
65°	6571.6	5311.3	2795.2	2106.8	2009.2	1902.2	1897.5	1953.4	1972.0	1944.1	1953.4
67.5°	5915.9	4655.5	2418.4	1906.8	1809.2	1716.2	1753.4	1785.9	1818.5	1809.2	1818.5
70°	4985.7	3823.0	2074.3	1683.6	1590.6	1539.4	1581.3	1609.2	1613.8	1604.5	1613.8
72.5°	3920.7	2985.8	1753.4	1455.7	1372.0	1348.7	1399.9	1423.2	1465.0	1483.6	1488.3
75°	2832.4	2204.5	1437.1	1209.2	1139.5	1139.5	1186.0	1227.8	1265.0	1241.8	1227.8
77.5°	1581.3	1316.2	1032.5	832.5	846.5	911.6	930.2	976.7	1013.9	1009.2	999.9
80°	958.1	823.2	697.6	539.5	534.8	586.0	706.9	786.0	804.6	762.7	758.1
82.5°	497.6	432.5	372.1	302.3	334.9	390.7	409.3	493.0	544.1	525.5	548.8
85°	125.6	120.9	134.9	139.5	172.1	190.7	209.3	246.5	162.8	79.1	79.1
87.5°	37.2	37.2	46.5	46.5	60.5	74.4	69.8	69.8	37.2	4.7	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)