

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: P841373

Luminaire Tested: **ARCH4-170-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

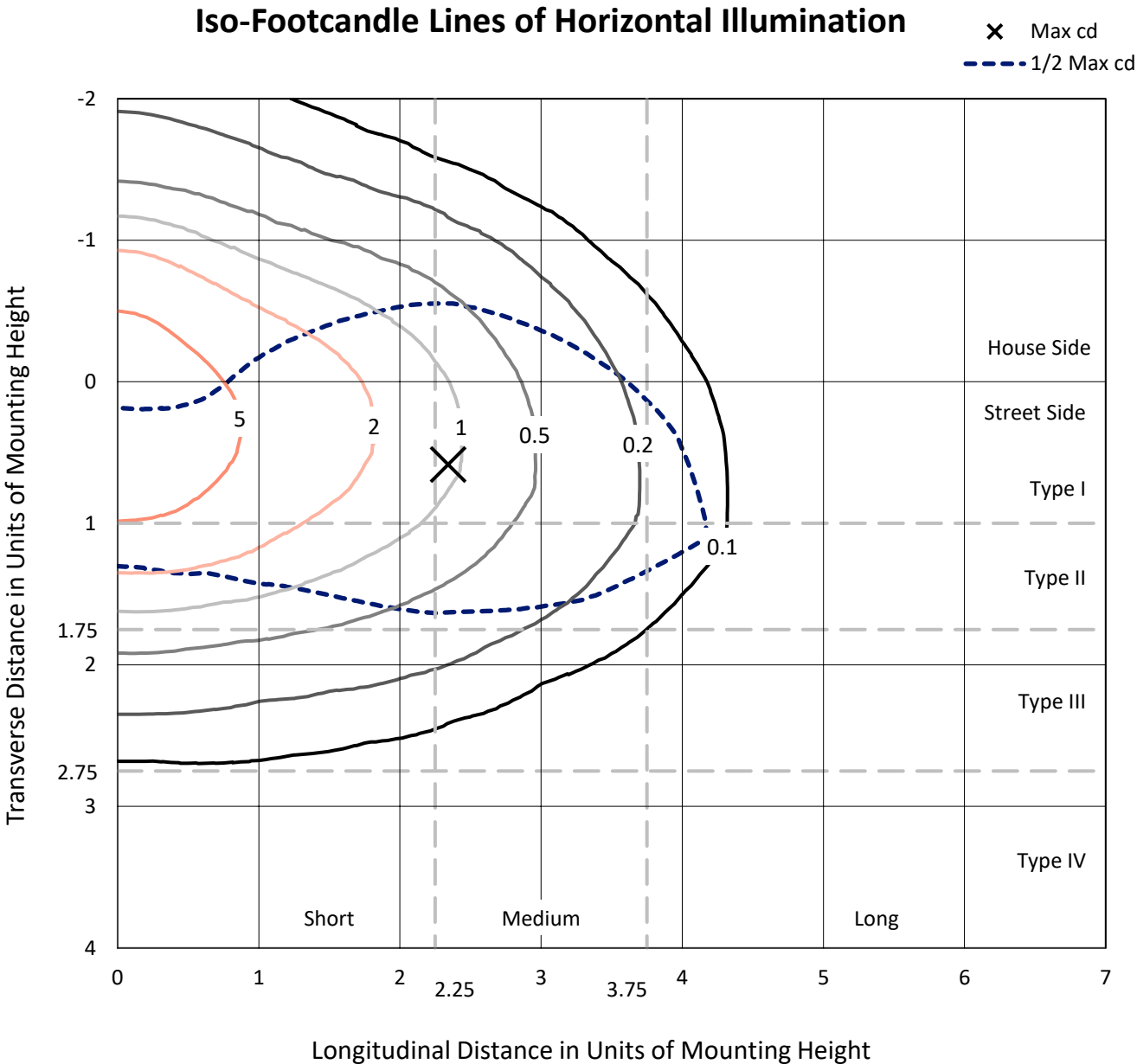
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26408 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 169.8
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



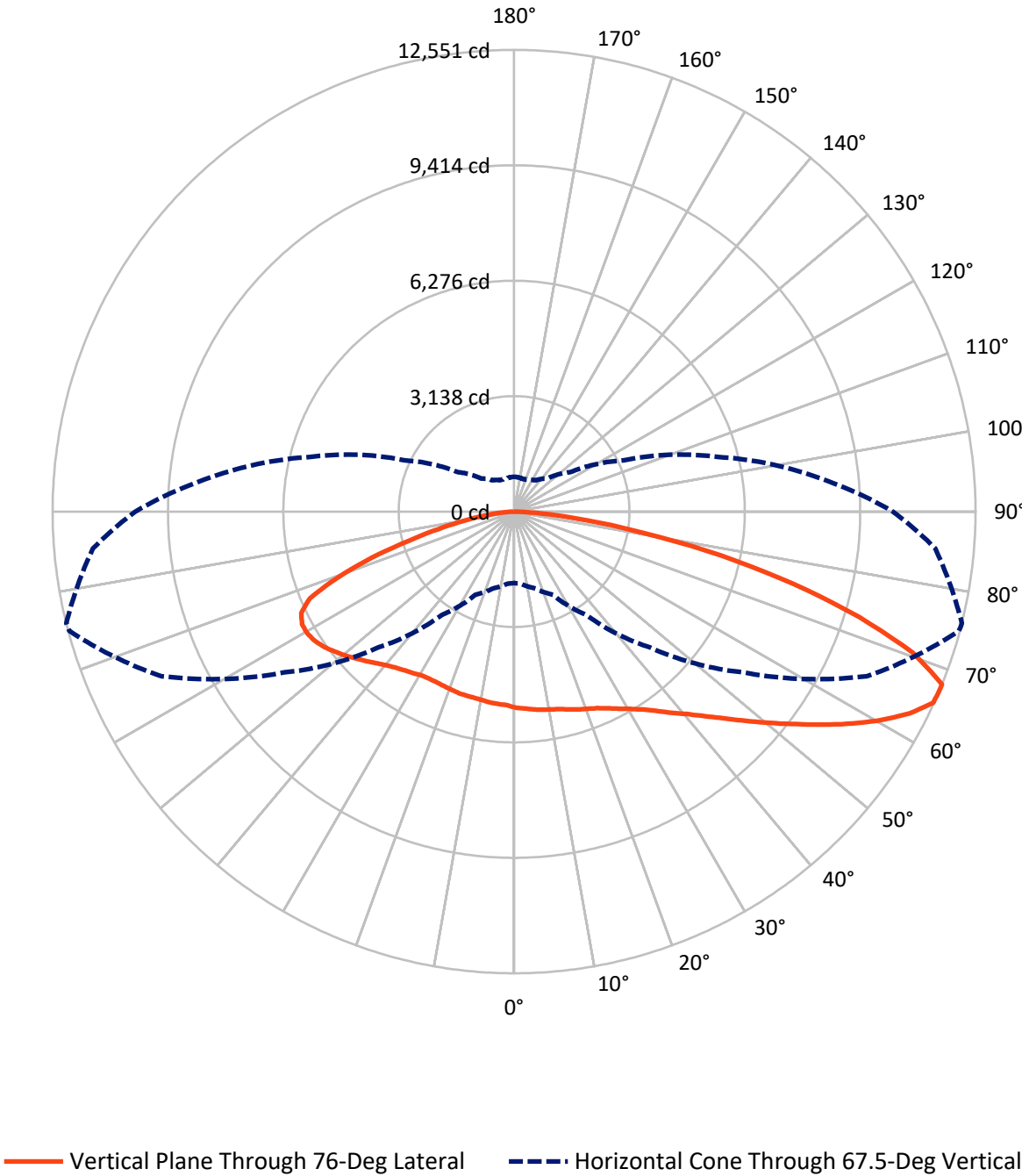
REPORT NUMBER: P841373
CATALOG NUMBER: ARCH4-170-727-U-T2U



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Medium - N/A

REPORT NUMBER: P841373
CATALOG NUMBER: ARCH4-170-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841373

CATALOG NUMBER: ARCH4-170-727-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8923.4	0.0	8923.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	17484.6	0.0	17484.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	26408.0	0.0	26408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.4	1.9
10°-20°	1572.5	6.0
20°-30°	2671.8	10.1
30°-40°	3801.6	14.4
40°-50°	4801.3	18.2
50°-60°	5198.3	19.7
60°-70°	4835.0	18.3
70°-80°	2596.8	9.8
80°-90°	416.1	1.6
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°	26408.0	100.0
0°-180°	26408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841373

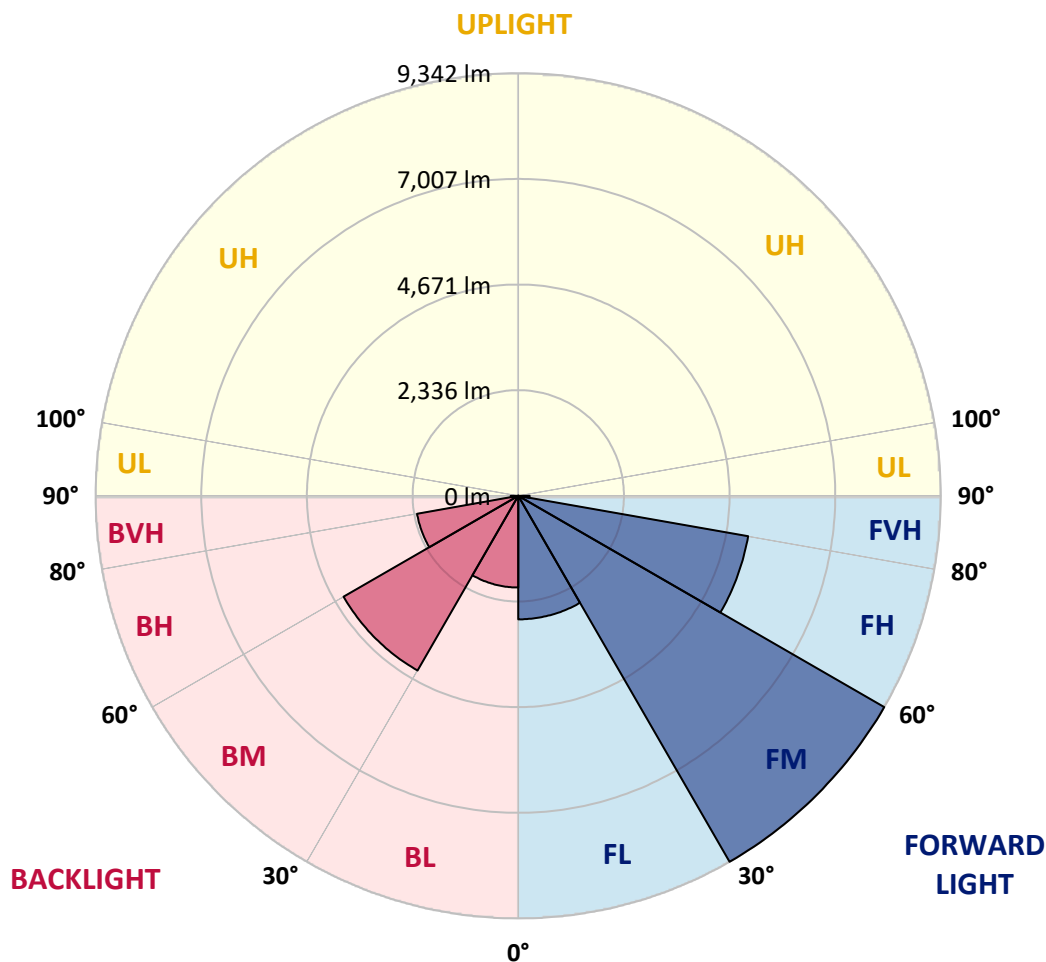
CATALOG NUMBER: ARCH4-170-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2730.9	10.3			
FM	(30°-60°)	9342.1	35.4			
FH	(60°-80°)	5159.9	19.5			G3/7500
FVH	(80°-90°)	251.7	1.0			G3/500
BL	(0°-30°)	2027.9	7.7	B3/2500		
BM	(30°-60°)	4459.1	16.9	B3/5000		
BH	(60°-80°)	2272.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	164.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P841373

CATALOG NUMBER: ARCH4-170-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4
2.5°	5496.2	5486.3	5447.1	5452.0	5452.0	5447.1	5388.3	5363.8	5363.8	5358.9	5304.9
5°	5692.3	5677.6	5633.4	5623.6	5604.0	5579.5	5486.3	5432.4	5407.9	5403.0	5329.5
7.5°	5922.7	5903.1	5849.2	5819.7	5770.7	5707.0	5589.3	5506.0	5447.1	5442.2	5339.3
10°	6153.1	6133.5	6069.8	6015.9	5947.2	5844.3	5692.3	5569.7	5476.5	5466.7	5344.2
12.5°	6427.7	6408.1	6329.6	6261.0	6158.0	6020.8	5819.7	5653.0	5525.6	5510.9	5358.9
15°	6717.0	6687.6	6609.1	6530.7	6403.2	6226.7	5986.4	5765.8	5604.0	5579.5	5403.0
17.5°	6957.2	6918.0	6854.3	6775.8	6633.6	6427.7	6153.1	5878.6	5677.6	5657.9	5447.1
20°	7163.1	7133.7	7065.1	6991.5	6839.5	6614.0	6310.0	5991.3	5746.2	5721.7	5481.4
22.5°	7359.3	7320.0	7280.8	7226.9	7060.2	6810.1	6491.4	6128.6	5834.5	5805.0	5525.6
25°	7584.8	7540.7	7526.0	7496.5	7300.4	7045.5	6712.1	6300.2	5957.0	5922.7	5604.0
27.5°	7864.3	7815.2	7785.8	7785.8	7550.5	7285.7	6947.4	6501.2	6099.2	6069.8	5702.1
30°	8158.4	8099.6	8055.5	8055.5	7790.7	7526.0	7177.8	6702.3	6261.0	6226.7	5829.6
32.5°	8418.3	8359.4	8310.4	8305.5	8031.0	7766.2	7418.1	6922.9	6457.1	6413.0	5986.4
35°	8619.3	8565.4	8521.2	8531.0	8271.2	8011.3	7687.8	7217.1	6702.3	6653.2	6192.4
37.5°	8741.9	8722.3	8697.7	8732.1	8491.8	8246.7	7967.2	7501.4	6981.7	6937.6	6447.3
40°	8805.6	8790.9	8889.0	8933.1	8678.1	8457.5	8246.7	7795.6	7285.7	7236.7	6741.5
42.5°	8898.8	9021.3	9060.6	9050.8	8815.4	8619.3	8501.6	8114.3	7643.6	7599.5	7094.5
45°	8565.4	8536.0	8751.7	8869.4	8825.2	8722.3	8741.9	8496.7	8060.4	8016.2	7501.4
47.5°	8119.2	8080.0	8202.6	8491.8	8663.4	8761.5	8957.6	8893.9	8540.9	8501.6	7977.0
50°	7177.8	7231.8	7687.8	8075.1	8413.4	8751.7	9139.0	9320.4	9070.4	9031.1	8486.9
52.5°	6133.5	6187.5	6663.0	7555.4	8109.4	8678.1	9271.4	9747.0	9644.0	9599.9	9031.1
55°	5373.6	5491.3	6030.6	6677.8	7677.9	8447.7	9349.8	10183.3	10261.8	10222.6	9624.4
57.5°	4618.5	4706.8	5113.7	5687.4	7089.6	8045.7	9344.9	10590.3	10909.0	10869.7	10227.5
60°	3731.1	3843.9	4167.5	4785.2	6305.1	7565.2	9207.7	10909.0	11531.6	11502.2	10810.9
62.5°	3123.1	3157.5	3387.9	3922.3	5295.1	6957.2	8898.8	11080.6	12095.5	12075.8	11335.5
65°	2515.2	2520.1	2730.9	3177.1	4319.5	6202.2	8374.2	11016.8	12522.0	12531.8	11713.0
67.5°	1941.5	1966.1	2157.3	2495.6	3432.0	5221.6	7624.0	10585.4	12526.9	12551.4	11497.3
70°	1343.4	1363.0	1652.3	1980.8	2652.5	4162.6	6609.1	9443.0	11497.3	11516.9	10305.9
72.5°	946.3	956.1	1264.9	1583.6	2073.9	3137.9	4986.3	7810.3	9800.9	9815.6	8668.3
75°	706.0	715.8	892.3	1201.2	1588.5	2172.0	3407.5	5981.5	7829.9	7829.9	6844.5
77.5°	500.1	505.0	578.5	828.6	1059.0	1466.0	2049.4	3917.4	5746.2	5756.0	4986.3
80°	338.3	343.2	377.5	558.9	661.9	794.3	1113.0	2054.3	3623.2	3638.0	3167.3
82.5°	176.5	186.3	210.8	284.4	333.4	441.3	573.6	1044.3	2005.3	2044.5	1902.3
85°	68.6	68.6	78.4	93.2	122.6	171.6	264.8	397.1	907.0	936.5	838.4
87.5°	24.5	24.5	29.4	29.4	34.3	39.2	44.1	58.8	103.0	103.0	98.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841373

CATALOG NUMBER: ARCH4-170-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4	5334.4
2.5°	5285.3	5285.3	5260.8	5270.6	5265.7	5255.9	5246.1	5260.8	5246.1	5211.8	5206.9
5°	5295.1	5285.3	5246.1	5241.2	5226.5	5206.9	5182.4	5192.2	5167.7	5138.2	5133.3
7.5°	5300.0	5280.4	5226.5	5206.9	5177.5	5138.2	5099.0	5099.0	5064.7	5035.3	5030.4
10°	5290.2	5265.7	5192.2	5153.0	5099.0	5040.2	4986.3	4971.5	4932.3	4898.0	4898.0
12.5°	5295.1	5260.8	5167.7	5103.9	5030.4	4956.8	4888.2	4868.6	4834.3	4799.9	4795.0
15°	5324.6	5275.5	5157.9	5074.5	4966.6	4883.3	4809.7	4795.0	4765.6	4741.1	4741.1
17.5°	5354.0	5290.2	5143.1	5025.5	4893.1	4799.9	4731.3	4731.3	4711.7	4697.0	4697.0
20°	5368.7	5295.1	5113.7	4956.8	4804.8	4706.8	4643.0	4652.9	4648.0	4643.0	4643.0
22.5°	5403.0	5304.9	5089.2	4893.1	4711.7	4608.7	4549.9	4564.6	4559.7	4559.7	4564.6
25°	5456.9	5329.5	5069.6	4834.3	4623.4	4510.7	4446.9	4456.7	4456.7	4456.7	4456.7
27.5°	5530.5	5378.5	5064.7	4780.3	4535.2	4407.7	4329.3	4329.3	4309.7	4314.6	4319.5
30°	5643.2	5471.6	5074.5	4731.3	4442.0	4280.2	4187.1	4172.4	4167.5	4177.3	4182.2
32.5°	5780.5	5599.1	5133.3	4697.0	4344.0	4138.0	4020.4	4015.5	4000.8	4000.8	4000.8
35°	5952.1	5721.7	5187.3	4692.1	4245.9	3986.1	3858.6	3843.9	3809.6	3794.8	3794.8
37.5°	6172.8	5912.9	5251.0	4657.8	4162.6	3839.0	3687.0	3638.0	3598.7	3593.8	3593.8
40°	6442.4	6128.6	5344.2	4618.5	4074.3	3687.0	3486.0	3402.6	3407.5	3427.1	3427.1
42.5°	6761.1	6393.4	5461.8	4598.9	3946.8	3530.1	3250.6	3152.6	3186.9	3206.5	3211.4
45°	7133.7	6707.2	5594.2	4574.4	3829.2	3353.6	3000.6	2878.0	2892.7	2897.6	2902.5
47.5°	7565.2	7055.3	5731.5	4554.8	3696.8	3133.0	2726.0	2564.2	2559.3	2529.9	2539.7
50°	8016.2	7423.0	5873.7	4520.5	3535.0	2873.1	2436.7	2245.5	2206.3	2162.2	2167.1
52.5°	8496.7	7800.5	6006.1	4466.5	3334.0	2608.3	2162.2	1956.3	1877.8	1828.8	1838.6
55°	9026.2	8187.8	6133.5	4383.2	3123.1	2343.6	1917.0	1706.2	1608.2	1568.9	1573.8
57.5°	9511.6	8560.5	6226.7	4280.2	2892.7	2103.3	1701.3	1495.4	1431.6	1426.7	1431.6
60°	9982.3	8874.3	6265.9	4138.0	2657.4	1882.7	1500.3	1343.4	1299.3	1323.8	1328.7
62.5°	10379.4	9075.3	6246.3	3946.8	2417.1	1671.9	1338.5	1225.7	1196.3	1245.3	1250.2
65°	10609.9	9139.0	6109.0	3672.3	2157.3	1466.0	1186.5	1063.9	1049.2	1078.6	1093.3
67.5°	10305.9	8741.9	5736.4	3294.8	1868.0	1274.8	1039.4	941.4	916.8	941.4	941.4
70°	9134.1	7575.0	4853.9	2696.6	1549.3	1088.4	902.1	833.5	813.9	833.5	828.6
72.5°	7609.3	6300.2	3824.3	2103.3	1220.8	916.8	784.5	720.7	701.1	681.5	671.7
75°	5903.1	4785.2	2775.0	1544.4	921.7	735.4	657.0	598.2	549.1	568.7	558.9
77.5°	4324.4	3358.5	1966.1	1068.8	661.9	568.7	514.8	470.7	436.4	475.6	470.7
80°	2784.8	2172.0	1314.0	715.8	456.0	397.1	377.5	353.0	387.3	505.0	514.8
82.5°	1701.3	1377.7	784.5	465.8	299.1	264.8	245.1	245.1	397.1	436.4	441.3
85°	759.9	730.5	426.6	240.2	166.7	152.0	137.3	176.5	161.8	117.7	122.6
87.5°	122.6	127.5	93.2	83.3	63.7	63.7	49.0	34.3	24.5	14.7	14.7
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)