

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: P841301

Luminaire Tested: **ARCH4-160-727-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841301
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: ARCH4-160-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

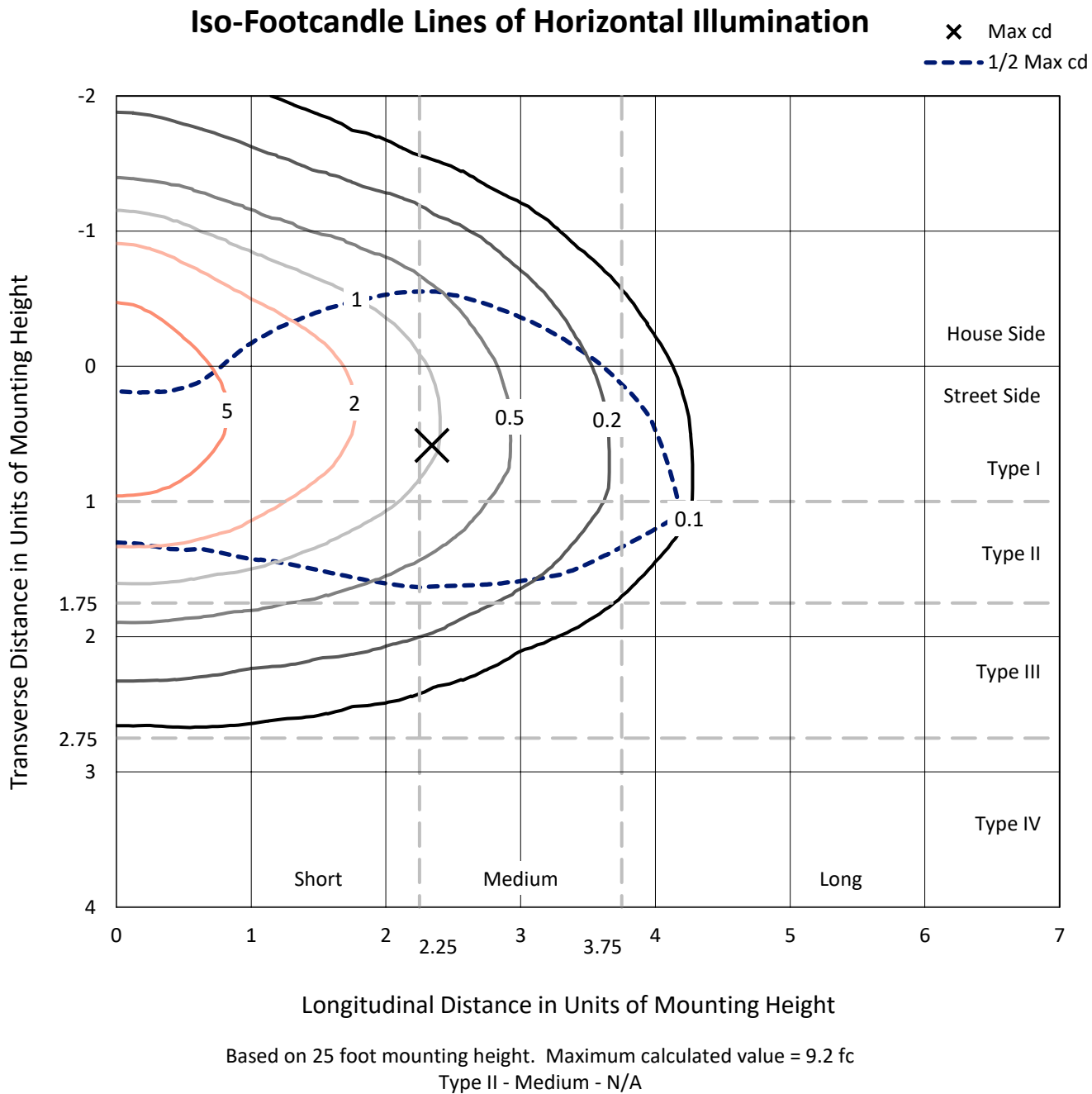
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25195 lumens
Efficiency: N/A
Efficacy: 156.8 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): 160.7
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

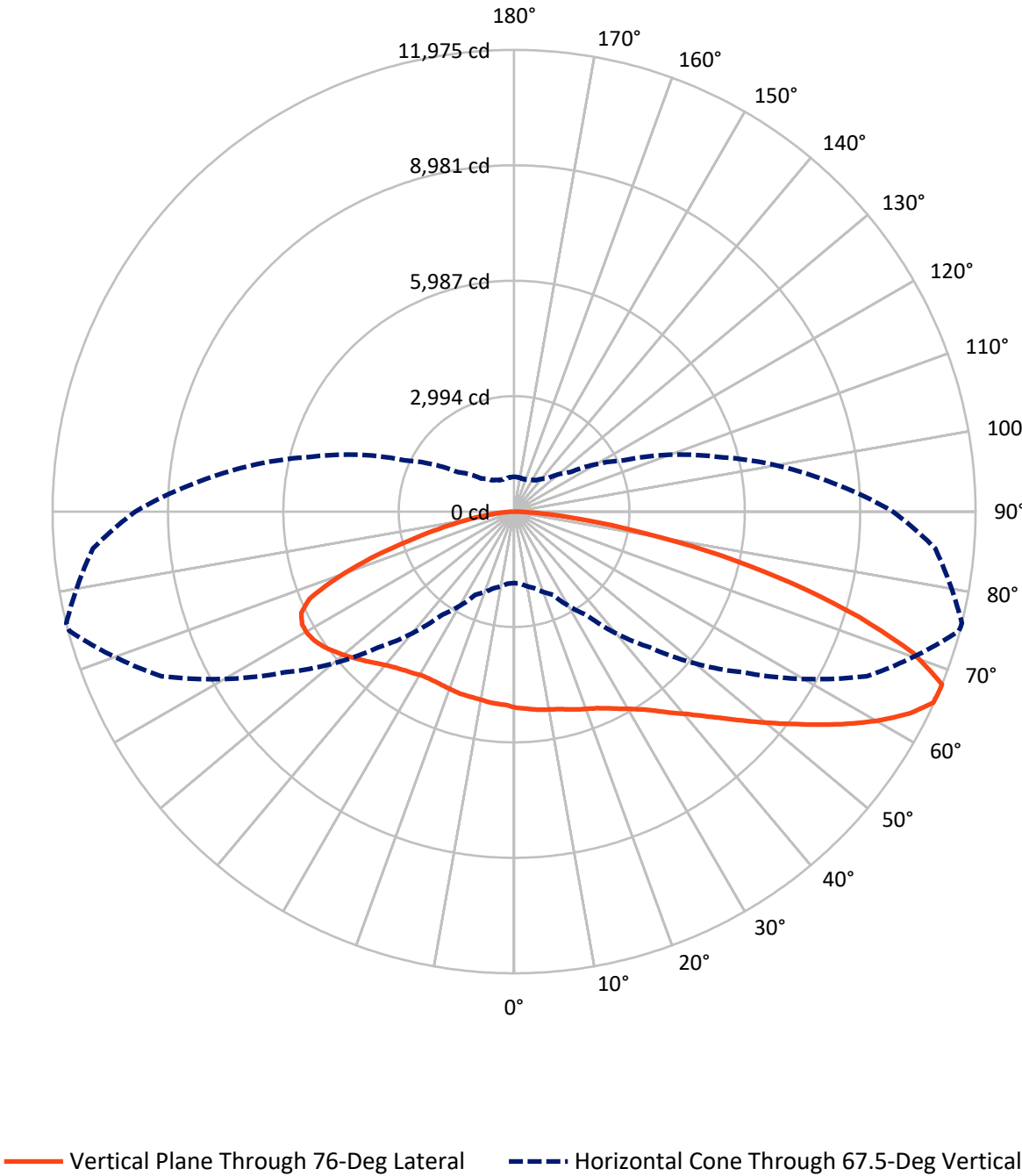


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8513.5	0.0	8513.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	16681.5	0.0	16681.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	25195.0	0.0	25195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.7	1.9
10°-20°	1500.3	6.0
20°-30°	2549.1	10.1
30°-40°	3627.0	14.4
40°-50°	4580.8	18.2
50°-60°	4959.6	19.7
60°-70°	4612.9	18.3
70°-80°	2477.6	9.8
80°-90°	397.0	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°	25195.0	100.0
0°-180°	25195.0	100.0

Coefficient of Utilization



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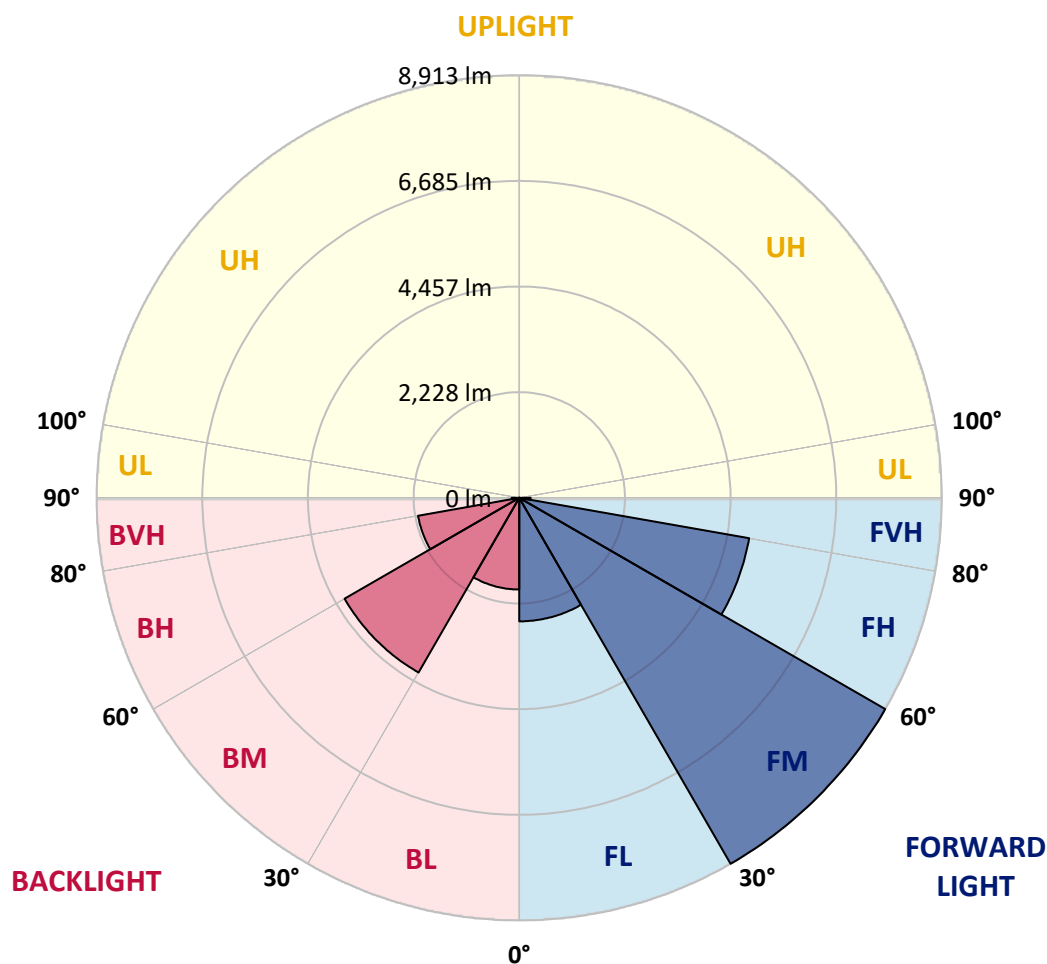
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2605.4	10.3			
FM	(30°-60°)	8913.0	35.4			
FH	(60°-80°)	4922.9	19.5			G2/5000
FVH	(80°-90°)	240.1	1.0			G3/500
BL	(0°-30°)	1934.7	7.7	B3/2500		
BM	(30°-60°)	4254.3	16.9	B3/5000		
BH	(60°-80°)	2167.6	8.6	B3/2500		G3/2500
BVH	(80°-90°)	156.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3
2.5°	5243.7	5234.3	5196.9	5201.6	5201.6	5196.9	5140.8	5117.4	5117.4	5112.7	5061.3
5°	5430.8	5416.8	5374.7	5365.3	5346.6	5323.2	5234.3	5182.9	5159.5	5154.8	5084.7
7.5°	5650.7	5631.9	5580.5	5552.4	5505.6	5444.8	5332.6	5253.1	5196.9	5192.2	5094.0
10°	5870.5	5851.8	5791.0	5739.5	5674.0	5575.8	5430.8	5313.9	5225.0	5215.6	5098.7
12.5°	6132.5	6113.8	6038.9	5973.4	5875.2	5744.2	5552.4	5393.4	5271.8	5257.7	5112.7
15°	6408.4	6380.4	6305.5	6230.7	6109.1	5940.7	5711.5	5501.0	5346.6	5323.2	5154.8
17.5°	6637.7	6600.2	6539.4	6464.6	6328.9	6132.5	5870.5	5608.6	5416.8	5398.1	5196.9
20°	6834.1	6806.0	6740.6	6670.4	6525.4	6310.2	6020.2	5716.1	5482.3	5458.9	5229.7
22.5°	7021.2	6983.8	6946.4	6894.9	6735.9	6497.3	6193.3	5847.1	5566.5	5538.4	5271.8
25°	7236.4	7194.3	7180.3	7152.2	6965.1	6721.9	6403.8	6010.8	5683.4	5650.7	5346.6
27.5°	7503.0	7456.2	7428.2	7428.2	7203.7	6951.1	6628.3	6202.6	5819.1	5791.0	5440.2
30°	7783.7	7727.6	7685.5	7685.5	7432.9	7180.3	6848.1	6394.4	5973.4	5940.7	5561.8
32.5°	8031.6	7975.5	7928.7	7924.0	7662.1	7409.5	7077.4	6604.9	6160.5	6118.4	5711.5
35°	8223.4	8171.9	8129.8	8139.2	7891.3	7643.4	7334.6	6885.6	6394.4	6347.6	5907.9
37.5°	8340.3	8321.6	8298.2	8331.0	8101.8	7867.9	7601.3	7156.9	6661.0	6618.9	6151.2
40°	8401.1	8387.1	8480.7	8522.8	8279.5	8069.0	7867.9	7437.5	6951.1	6904.3	6431.8
42.5°	8490.0	8607.0	8644.4	8635.0	8410.5	8223.4	8111.1	7741.6	7292.5	7250.4	6768.6
45°	8171.9	8143.9	8349.7	8462.0	8419.9	8321.6	8340.3	8106.4	7690.1	7648.0	7156.9
47.5°	7746.3	7708.8	7825.8	8101.8	8265.5	8359.0	8546.2	8485.3	8148.5	8111.1	7610.6
50°	6848.1	6899.6	7334.6	7704.2	8026.9	8349.7	8719.2	8892.3	8653.7	8616.3	8097.1
52.5°	5851.8	5903.3	6357.0	7208.3	7736.9	8279.5	8845.5	9299.3	9201.0	9158.9	8616.3
55°	5126.8	5239.0	5753.6	6371.0	7325.3	8059.7	8920.4	9715.6	9790.4	9753.0	9182.3
57.5°	4406.4	4490.6	4878.8	5426.1	6763.9	7676.1	8915.7	10103.8	10407.9	10370.5	9757.7
60°	3559.7	3667.3	3976.0	4565.4	6015.5	7217.7	8784.7	10407.9	11001.9	10973.9	10314.3
62.5°	2979.7	3012.4	3232.3	3742.2	5051.9	6637.7	8490.0	10571.6	11539.9	11521.2	10814.8
65°	2399.7	2404.3	2605.5	3031.1	4121.1	5917.3	7989.5	10510.8	11946.8	11956.2	11175.0
67.5°	1852.4	1875.8	2058.2	2380.9	3274.4	4981.7	7273.8	10099.1	11951.5	11974.9	10969.2
70°	1281.7	1300.4	1576.4	1889.8	2530.6	3971.4	6305.5	9009.2	10969.2	10987.9	9832.5
72.5°	902.8	912.2	1206.8	1510.9	1978.7	2993.7	4757.2	7451.6	9350.7	9364.7	8270.2
75°	673.6	682.9	851.3	1146.0	1515.6	2072.2	3251.0	5706.8	7470.3	7470.3	6530.1
77.5°	477.1	481.8	552.0	790.5	1010.4	1398.6	1955.3	3737.5	5482.3	5491.6	4757.2
80°	322.8	327.4	360.2	533.3	631.5	757.8	1061.8	1960.0	3456.8	3470.9	3021.8
82.5°	168.4	177.8	201.1	271.3	318.1	421.0	547.3	996.3	1913.2	1950.6	1814.9
85°	65.5	65.5	74.8	88.9	116.9	163.7	252.6	378.9	865.4	893.4	799.9
87.5°	23.4	23.4	28.1	28.1	32.7	37.4	42.1	56.1	98.2	98.2	93.6
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°	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3	5089.3
2.5°	5042.6	5042.6	5019.2	5028.5	5023.8	5014.5	5005.1	5019.2	5005.1	4972.4	4967.7
5°	5051.9	5042.6	5005.1	5000.5	4986.4	4967.7	4944.3	4953.7	4930.3	4902.2	4897.5
7.5°	5056.6	5037.9	4986.4	4967.7	4939.6	4902.2	4864.8	4864.8	4832.1	4804.0	4799.3
10°	5047.2	5023.8	4953.7	4916.3	4864.8	4808.7	4757.2	4743.2	4705.8	4673.0	4673.0
12.5°	5051.9	5019.2	4930.3	4869.5	4799.3	4729.2	4663.7	4645.0	4612.2	4579.5	4574.8
15°	5080.0	5033.2	4920.9	4841.4	4738.5	4659.0	4588.8	4574.8	4546.7	4523.3	4523.3
17.5°	5108.0	5047.2	4906.9	4794.6	4668.3	4579.5	4514.0	4514.0	4495.3	4481.2	4481.2
20°	5122.1	5051.9	4878.8	4729.2	4584.1	4490.6	4429.8	4439.1	4434.5	4429.8	4429.8
22.5°	5154.8	5061.3	4855.4	4668.3	4495.3	4397.0	4340.9	4354.9	4350.3	4350.3	4354.9
25°	5206.3	5084.7	4836.7	4612.2	4411.1	4303.5	4242.7	4252.0	4252.0	4252.0	4252.0
27.5°	5276.4	5131.4	4832.1	4560.8	4326.9	4205.2	4130.4	4130.4	4111.7	4116.4	4121.1
30°	5384.0	5220.3	4841.4	4514.0	4238.0	4083.6	3994.8	3980.7	3976.0	3985.4	3990.1
32.5°	5515.0	5341.9	4897.5	4481.2	4144.4	3948.0	3835.7	3831.0	3817.0	3817.0	3817.0
35°	5678.7	5458.9	4949.0	4476.6	4050.9	3803.0	3681.3	3667.3	3634.6	3620.5	3620.5
37.5°	5889.2	5641.3	5009.8	4443.8	3971.4	3662.6	3517.6	3470.9	3433.4	3428.8	3428.8
40°	6146.5	5847.1	5098.7	4406.4	3887.2	3517.6	3325.8	3246.3	3251.0	3269.7	3269.7
42.5°	6450.5	6099.7	5211.0	4387.7	3765.5	3367.9	3101.3	3007.8	3040.5	3059.2	3063.9
45°	6806.0	6399.1	5337.3	4364.3	3653.3	3199.5	2862.8	2745.8	2759.8	2764.5	2769.2
47.5°	7217.7	6731.2	5468.2	4345.6	3527.0	2989.0	2600.8	2446.4	2441.8	2413.7	2423.0
50°	7648.0	7082.0	5603.9	4312.8	3372.6	2741.1	2324.8	2142.4	2105.0	2062.9	2067.5
52.5°	8106.4	7442.2	5730.2	4261.4	3180.8	2488.5	2062.9	1866.4	1791.6	1744.8	1754.1
55°	8611.6	7811.8	5851.8	4181.9	2979.7	2235.9	1829.0	1627.8	1534.3	1496.9	1501.5
57.5°	9074.7	8167.3	5940.7	4083.6	2759.8	2006.7	1623.2	1426.7	1365.9	1361.2	1365.9
60°	9523.8	8466.6	5978.1	3948.0	2535.3	1796.2	1431.4	1281.7	1239.6	1263.0	1267.7
62.5°	9902.7	8658.4	5959.4	3765.5	2306.1	1595.1	1277.0	1169.4	1141.4	1188.1	1192.8
65°	10122.5	8719.2	5828.4	3503.6	2058.2	1398.6	1132.0	1015.1	1001.0	1029.1	1043.1
67.5°	9832.5	8340.3	5472.9	3143.4	1782.2	1216.2	991.7	898.1	874.7	898.1	898.1
70°	8714.5	7227.0	4630.9	2572.7	1478.2	1038.4	860.7	795.2	776.5	795.2	790.5
72.5°	7259.8	6010.8	3648.6	2006.7	1164.7	874.7	748.4	687.6	668.9	650.2	640.8
75°	5631.9	4565.4	2647.6	1473.5	879.4	701.7	626.8	570.7	523.9	542.6	533.3
77.5°	4125.7	3204.2	1875.8	1019.7	631.5	542.6	491.2	449.1	416.3	453.7	449.1
80°	2656.9	2072.2	1253.6	682.9	435.0	378.9	360.2	336.8	369.5	481.8	491.2
82.5°	1623.2	1314.4	748.4	444.4	285.3	252.6	233.9	233.9	378.9	416.3	421.0
85°	725.0	697.0	407.0	229.2	159.0	145.0	131.0	168.4	154.4	112.3	116.9
87.5°	116.9	121.6	88.9	79.5	60.8	60.8	46.8	32.7	23.4	14.0	14.0
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)