

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: P841260

Luminaire Tested: **ARCH4-150-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841260
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: ARCH4-150-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25315 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

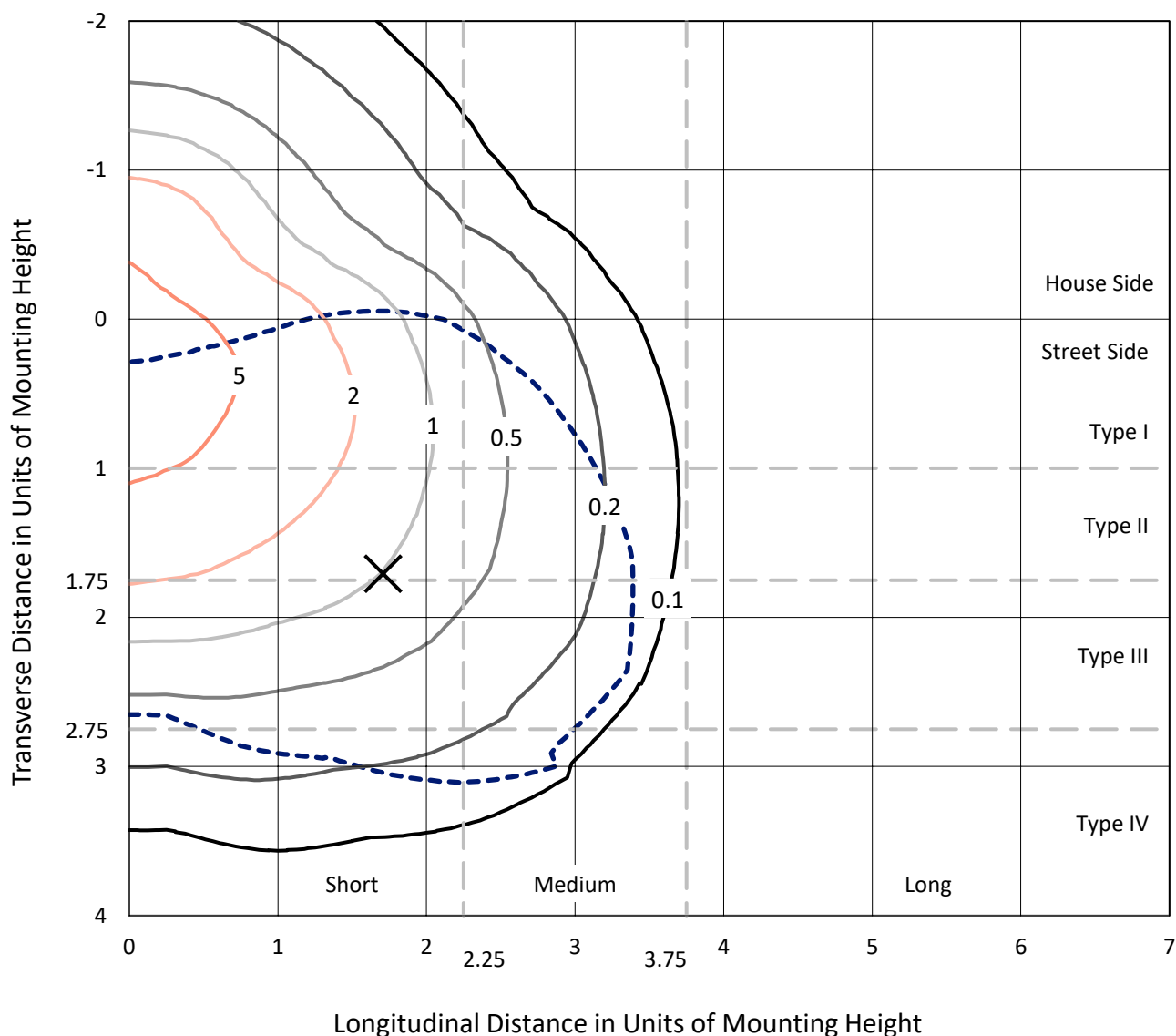
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841260
 CATALOG NUMBER: ARCH4-150-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

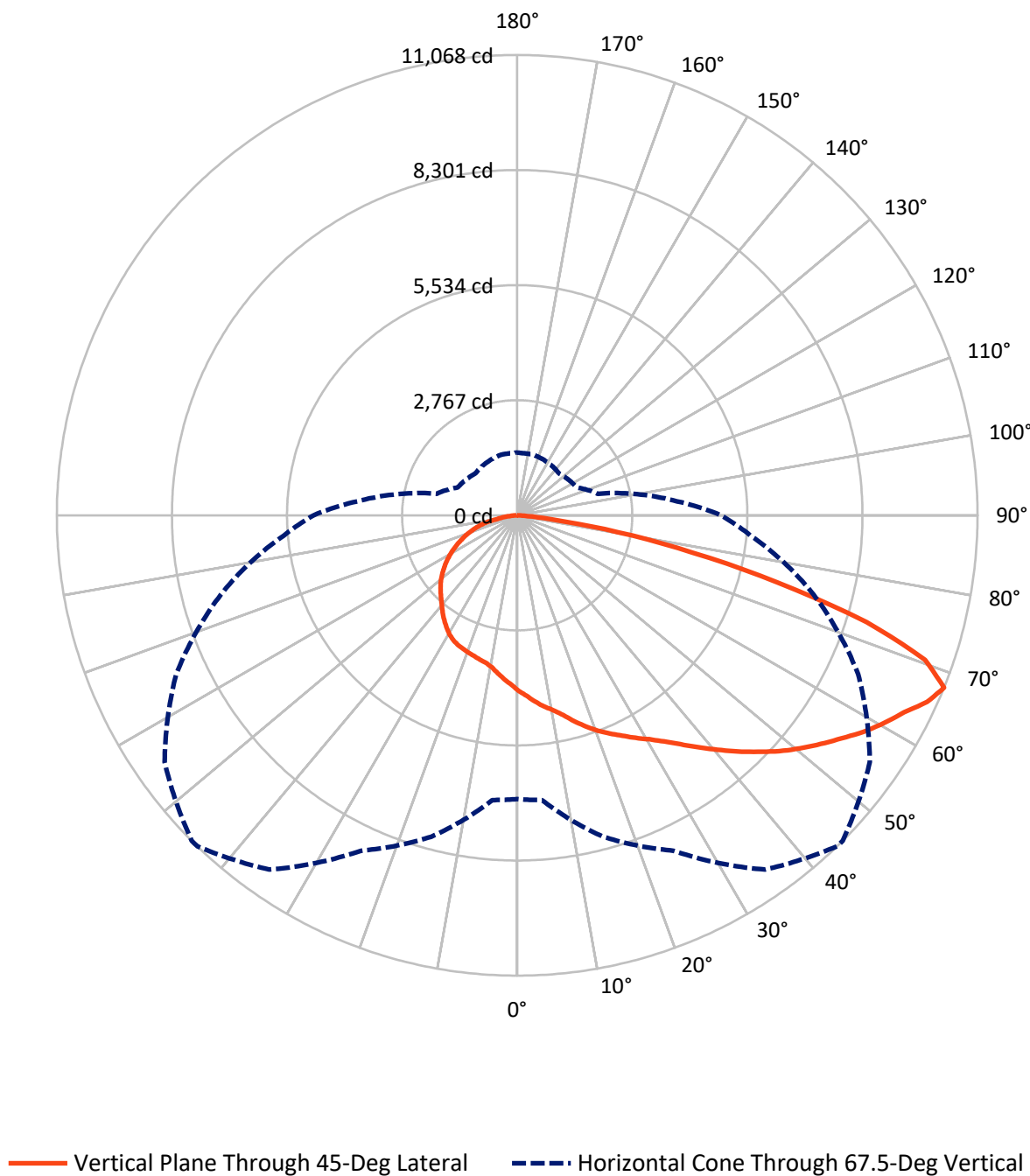
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P841260
CATALOG NUMBER: ARCH4-150-740-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841260

CATALOG NUMBER: ARCH4-150-740-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6762.9	0.0	6762.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	18552.1	0.0	18552.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	25315.0	0.0	25315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	1.6
10°-20°	1248.7	4.9
20°-30°	2155.5	8.5
30°-40°	3178.6	12.6
40°-50°	4306.4	17.0
50°-60°	5263.4	20.8
60°-70°	5428.5	21.4
70°-80°	2973.3	11.7
80°-90°	356.4	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°	25315.0	100.0
0°-180°	25315.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841260

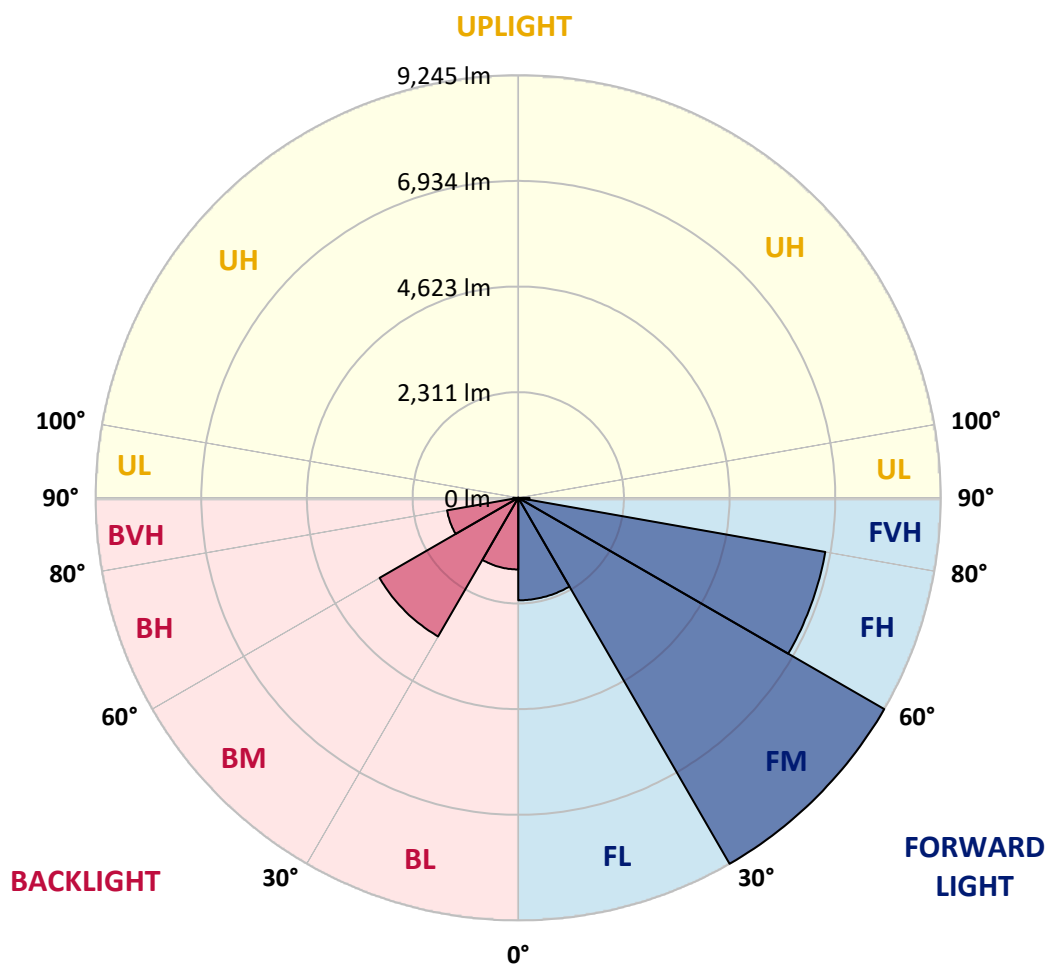
CATALOG NUMBER: ARCH4-150-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.1	8.9			
FM	(30°-60°)	9245.3	36.5			
FH	(60°-80°)	6820.2	26.9			G3/7500
FVH	(80°-90°)	245.5	1.0			G3/500
BL	(0°-30°)	1567.4	6.2	B3/2500		
BM	(30°-60°)	3503.1	13.8	B3/5000		
BH	(60°-80°)	1581.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	110.9	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-G3

Type IV Short



REPORT NUMBER: P841260

CATALOG NUMBER: ARCH4-150-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1
2.5°	4407.0	4403.1	4410.8	4383.9	4349.2	4345.3	4345.3	4322.2	4295.3	4241.3	4198.9
5°	4615.0	4607.3	4611.1	4572.6	4526.4	4503.3	4499.4	4449.3	4387.7	4303.0	4225.9
7.5°	4807.6	4799.9	4796.0	4753.7	4684.3	4645.8	4642.0	4568.8	4495.6	4364.6	4252.9
10°	4988.7	4981.0	4973.2	4915.5	4830.7	4772.9	4765.2	4672.8	4580.3	4418.5	4276.0
12.5°	5219.8	5204.4	5196.7	5127.3	5004.1	4942.4	4930.9	4807.6	4692.0	4495.6	4322.2
15°	5462.5	5450.9	5439.4	5373.9	5235.2	5154.3	5135.0	4981.0	4823.0	4595.7	4391.6
17.5°	5643.5	5632.0	5632.0	5574.2	5447.1	5354.6	5339.2	5154.3	4957.8	4688.2	4445.5
20°	5755.3	5743.7	5755.3	5720.6	5624.3	5547.2	5531.8	5327.7	5092.7	4772.9	4491.7
22.5°	5836.2	5824.6	5843.9	5828.4	5759.1	5712.9	5701.3	5501.0	5231.4	4861.5	4537.9
25°	5978.7	5978.7	5978.7	5951.7	5886.2	5870.8	5870.8	5697.5	5408.6	4977.1	4607.3
27.5°	6263.8	6248.3	6229.1	6152.0	6040.3	6036.5	6059.6	5897.8	5612.7	5127.3	4692.0
30°	6683.6	6675.9	6602.8	6441.0	6252.2	6232.9	6248.3	6113.5	5832.3	5285.3	4788.3
32.5°	7226.8	7199.8	7049.6	6806.9	6537.3	6448.7	6479.5	6336.9	6063.4	5447.1	4880.8
35°	7612.0	7619.7	7511.9	7292.3	6972.6	6737.6	6760.7	6587.3	6313.8	5628.1	4996.4
37.5°	8055.0	8082.0	7920.2	7754.6	7457.9	7057.3	7080.4	6845.4	6564.2	5855.4	5119.6
40°	8667.6	8613.6	8340.1	8143.6	7816.2	7392.5	7411.7	7134.4	6853.1	6071.1	5262.2
42.5°	9179.9	9083.6	8752.3	8501.9	8109.0	7746.9	7766.1	7446.4	7145.9	6310.0	5420.1
45°	9915.7	9649.9	9172.2	9048.9	8409.5	8093.6	8112.8	7777.7	7454.1	6564.2	5589.6
47.5°	10343.3	9919.5	9615.2	9549.7	8740.7	8451.8	8474.9	8128.2	7785.4	6853.1	5766.8
50°	10316.3	10042.8	9954.2	9792.4	9033.5	8787.0	8810.1	8490.4	8120.5	7138.2	5936.3
52.5°	10139.1	10189.2	10143.0	9873.3	9326.3	9110.6	9137.5	8848.6	8463.4	7404.0	6094.3
55°	10412.6	10447.3	10358.7	10004.3	9649.9	9434.2	9465.0	9226.1	8802.4	7639.0	6229.1
57.5°	10740.1	10616.8	10528.2	10235.4	9985.0	9784.7	9819.4	9611.4	9095.2	7827.8	6333.1
60°	10724.7	10466.6	10555.2	10250.8	10212.3	10108.3	10139.1	9927.2	9318.6	7966.4	6375.5
62.5°	9934.9	9796.3	10243.1	10139.1	10397.2	10397.2	10435.7	10119.9	9453.4	8024.2	6352.4
65°	8563.5	8571.2	9357.1	9788.6	10616.8	10794.0	10824.8	10239.3	9376.4	7854.7	6136.6
67.5°	6822.3	6872.4	8001.1	8898.7	10397.2	11063.7	11067.5	10347.1	9045.1	7377.1	5635.8
70°	4992.5	5031.0	6363.9	7454.1	9361.0	10466.6	10404.9	10042.8	8324.7	6545.0	4853.8
72.5°	3374.6	3409.2	4780.6	5724.4	7681.4	8914.1	8779.3	8875.6	7095.8	5377.7	3902.3
75°	2269.0	2311.3	3401.5	4094.9	5651.2	6768.4	6467.9	6722.2	5489.5	4071.8	2846.8
77.5°	1429.2	1456.1	2161.1	2685.0	3860.0	4607.3	4306.8	4310.7	3162.7	2191.9	1529.3
80°	909.1	916.8	1309.8	1548.6	2234.3	2769.8	2450.0	1991.6	1425.3	1163.4	913.0
82.5°	527.8	516.2	782.0	874.5	1063.2	1051.7	870.6	824.4	624.1	581.7	466.1
85°	211.9	196.5	342.8	319.7	323.6	342.8	254.2	254.2	204.2	157.9	115.6
87.5°	42.4	42.4	46.2	42.4	42.4	46.2	34.7	34.7	30.8	30.8	30.8
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: P841260

CATALOG NUMBER: ARCH4-150-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1	4222.1
2.5°	4191.2	4183.5	4164.3	4114.2	4087.2	4071.8	4048.7	4041.0	4037.2	4041.0	4052.6
5°	4202.8	4175.8	4121.9	4041.0	3987.1	3952.4	3913.9	3898.5	3886.9	3886.9	3898.5
7.5°	4210.5	4168.1	4075.7	3956.3	3879.2	3825.3	3779.1	3759.8	3755.9	3767.5	3771.3
10°	4214.4	4152.7	4021.7	3871.5	3771.3	3702.0	3655.8	3644.2	3655.8	3678.9	3682.7
12.5°	4241.3	4156.6	3990.9	3813.7	3694.3	3625.0	3590.3	3590.3	3621.1	3663.5	3667.3
15°	4287.6	4183.5	3975.5	3767.5	3644.2	3582.6	3571.0	3590.3	3636.5	3702.0	3709.7
17.5°	4322.2	4198.9	3940.8	3705.9	3578.7	3540.2	3559.5	3605.7	3671.2	3759.8	3767.5
20°	4345.3	4198.9	3890.8	3632.7	3513.2	3505.5	3559.5	3632.7	3702.0	3806.0	3817.6
22.5°	4368.4	4191.2	3833.0	3544.1	3440.1	3463.2	3563.3	3655.8	3725.1	3836.8	3856.1
25°	4410.8	4202.8	3775.2	3455.5	3363.0	3428.5	3559.5	3671.2	3744.4	3860.0	3890.8
27.5°	4468.6	4229.8	3732.8	3374.6	3286.0	3374.6	3532.5	3667.3	3744.4	3856.1	3890.8
30°	4530.2	4260.6	3682.7	3286.0	3197.4	3297.5	3474.7	3625.0	3713.6	3817.6	3860.0
32.5°	4595.7	4295.3	3640.4	3189.7	3089.5	3193.5	3390.0	3559.5	3655.8	3752.1	3798.3
35°	4684.3	4356.9	3617.3	3112.6	2993.2	3085.6	3282.1	3474.7	3578.7	3667.3	3721.3
37.5°	4792.2	4433.9	3605.7	3035.6	2889.2	2966.2	3166.5	3370.7	3482.4	3555.6	3605.7
40°	4915.5	4530.2	3601.9	2962.4	2785.2	2843.0	3047.1	3251.3	3359.2	3416.9	3459.3
42.5°	5054.1	4638.1	3594.1	2889.2	2681.2	2727.4	2931.6	3131.9	3224.3	3274.4	3312.9
45°	5200.5	4746.0	3578.7	2800.6	2569.4	2623.4	2812.1	2989.3	3085.6	3128.0	3170.4
47.5°	5346.9	4853.8	3547.9	2700.4	2469.3	2519.4	2685.0	2839.1	2916.2	2954.7	2997.0
50°	5489.5	4950.1	3474.7	2584.9	2365.3	2411.5	2538.6	2642.6	2700.4	2731.2	2773.6
52.5°	5616.6	5015.6	3370.7	2450.0	2261.3	2284.4	2369.1	2457.7	2504.0	2507.8	2546.3
55°	5724.4	5050.3	3220.5	2311.3	2149.6	2153.4	2199.6	2269.0	2288.2	2272.8	2299.8
57.5°	5786.1	5031.0	3054.8	2168.8	2034.0	2018.6	2053.2	2087.9	2091.8	2053.2	2080.2
60°	5801.5	4942.4	2839.1	2026.3	1918.4	1876.0	1887.6	1879.9	1872.2	1856.8	1879.9
62.5°	5724.4	4753.7	2600.3	1887.6	1795.1	1729.7	1725.8	1722.0	1733.5	1737.4	1741.2
65°	5443.2	4399.3	2315.2	1745.1	1664.2	1575.6	1571.7	1617.9	1633.4	1610.2	1617.9
67.5°	4900.1	3856.1	2003.2	1579.4	1498.5	1421.5	1452.3	1479.3	1506.2	1498.5	1506.2
70°	4129.6	3166.5	1718.1	1394.5	1317.5	1275.1	1309.8	1332.9	1336.7	1329.0	1336.7
72.5°	3247.4	2473.1	1452.3	1205.8	1136.4	1117.2	1159.5	1178.8	1213.5	1228.9	1232.7
75°	2346.0	1826.0	1190.3	1001.6	943.8	943.8	982.3	1017.0	1047.8	1028.5	1017.0
77.5°	1309.8	1090.2	855.2	689.6	701.1	755.0	770.4	809.0	839.8	835.9	828.2
80°	793.6	681.8	577.8	446.9	443.0	485.4	585.5	651.0	666.4	631.8	627.9
82.5°	412.2	358.3	308.2	250.4	277.4	323.6	339.0	408.3	450.7	435.3	454.6
85°	104.0	100.2	111.7	115.6	142.5	157.9	173.4	204.2	134.8	65.5	65.5
87.5°	30.8	30.8	38.5	38.5	50.1	61.6	57.8	57.8	30.8	3.9	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)