

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: P841233

Luminaire Tested: **ARCH4-150-727-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841233
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: ARCH4-150-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23266 lumens
Efficiency: N/A
Efficacy: 154.3 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



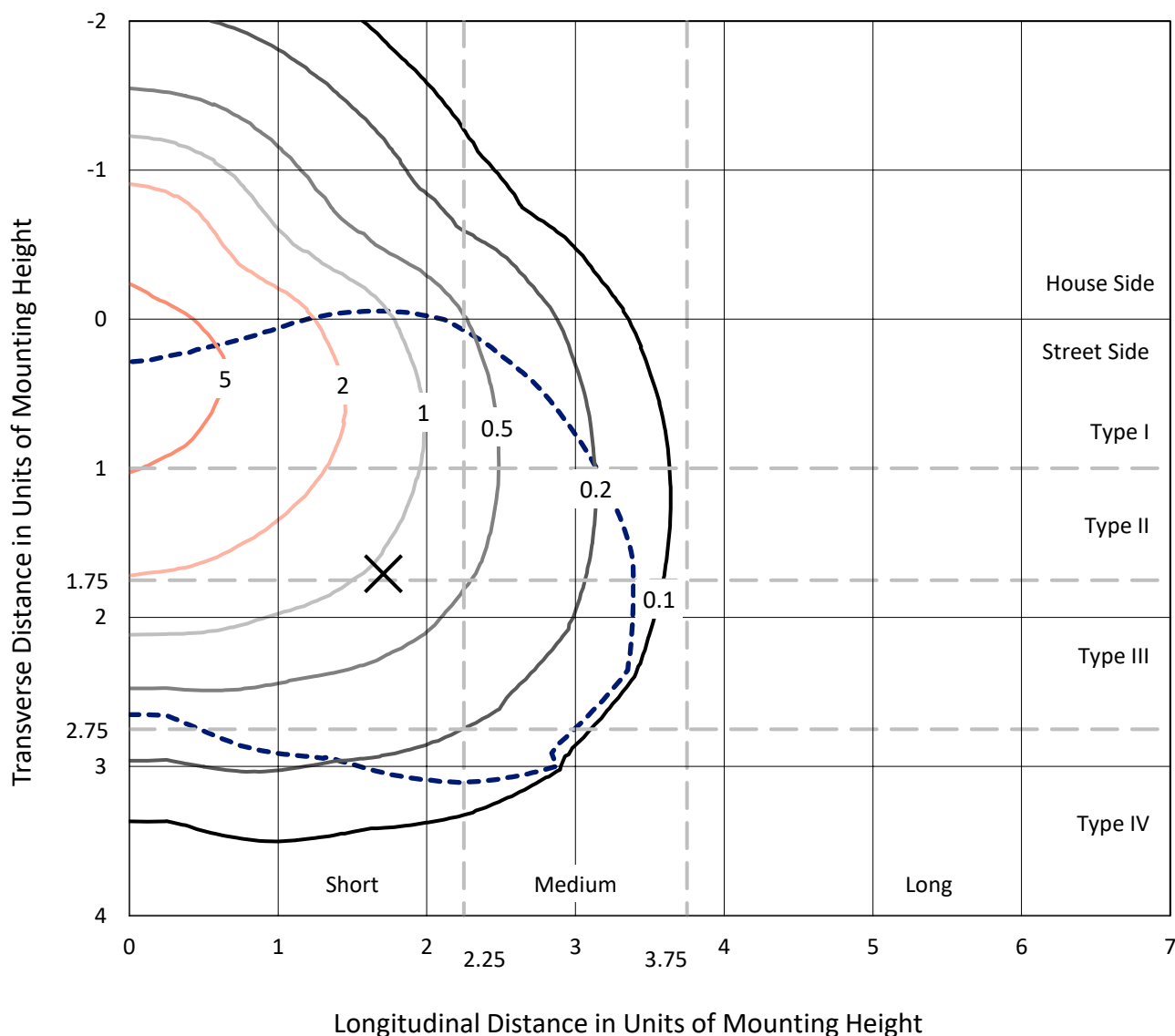
REPORT NUMBER: P841233

CATALOG NUMBER: ARCH4-150-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

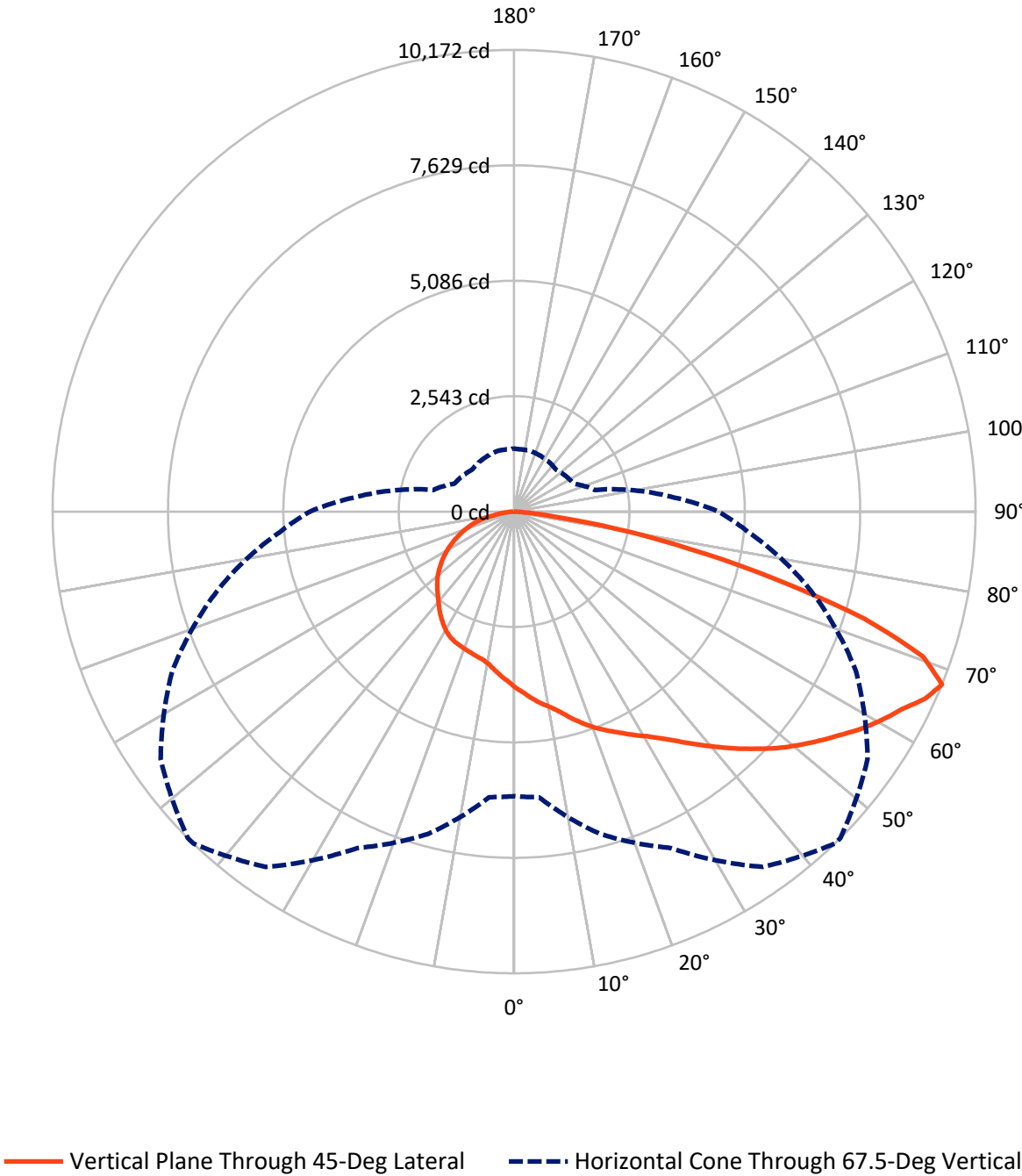


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Short - N/A

REPORT NUMBER: P841233
CATALOG NUMBER: ARCH4-150-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P841233

CATALOG NUMBER: ARCH4-150-727-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6215.5	0.0	6215.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	17050.5	0.0	17050.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	23266.0	0.0	23266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.6
10°-20°	1147.7	4.9
20°-30°	1981.0	8.5
30°-40°	2921.3	12.6
40°-50°	3957.8	17.0
50°-60°	4837.4	20.8
60°-70°	4989.1	21.4
70°-80°	2732.7	11.7
80°-90°	327.5	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°	23266.0	100.0
0°-180°	23266.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841233

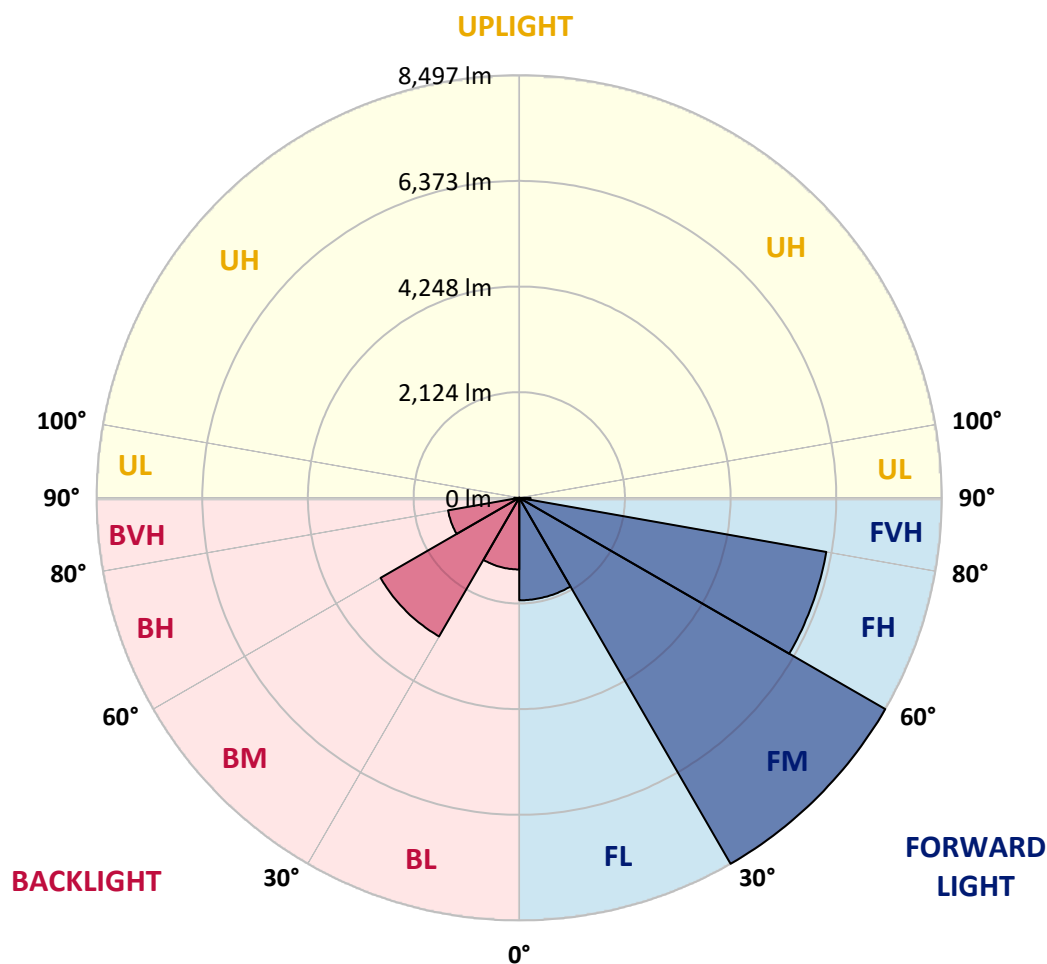
CATALOG NUMBER: ARCH4-150-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2059.7	8.9			
FM	(30°-60°)	8497.0	36.5			
FH	(60°-80°)	6268.2	26.9			G3/7500
FVH	(80°-90°)	225.6	1.0			G3/500
BL	(0°-30°)	1440.5	6.2	B3/2500		
BM	(30°-60°)	3219.5	13.8	B3/5000		
BH	(60°-80°)	1453.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	101.9	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: P841233

CATALOG NUMBER: ARCH4-150-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3
2.5°	4050.3	4046.7	4053.8	4029.0	3997.2	3993.6	3993.6	3972.4	3947.6	3898.0	3859.1
5°	4241.5	4234.4	4237.9	4202.5	4160.0	4138.8	4135.2	4089.2	4032.6	3954.7	3883.9
7.5°	4418.5	4411.4	4407.9	4368.9	4305.2	4269.8	4266.2	4199.0	4131.7	4011.3	3908.7
10°	4584.9	4577.8	4570.7	4517.6	4439.7	4386.6	4379.5	4294.6	4209.6	4060.9	3929.9
12.5°	4797.3	4783.1	4776.1	4712.3	4599.0	4542.4	4531.8	4418.5	4312.3	4131.7	3972.4
15°	5020.4	5009.7	4999.1	4938.9	4811.5	4737.1	4719.4	4577.8	4432.6	4223.8	4036.1
17.5°	5186.8	5176.1	5176.1	5123.0	5006.2	4921.2	4907.1	4737.1	4556.6	4308.7	4085.7
20°	5289.4	5278.8	5289.4	5257.6	5169.0	5098.2	5084.1	4896.4	4680.5	4386.6	4128.2
22.5°	5363.8	5353.2	5370.9	5356.7	5293.0	5250.5	5239.9	5055.8	4807.9	4468.0	4170.6
25°	5494.8	5494.8	5494.8	5470.0	5409.8	5395.6	5395.6	5236.3	4970.8	4574.3	4234.4
27.5°	5756.8	5742.6	5724.9	5654.1	5551.4	5547.9	5569.1	5420.4	5158.4	4712.3	4312.3
30°	6142.7	6135.6	6068.3	5919.6	5746.1	5728.4	5742.6	5618.7	5360.2	4857.5	4400.8
32.5°	6641.9	6617.1	6479.0	6256.0	6008.1	5926.7	5955.0	5824.0	5572.7	5006.2	4485.7
35°	6995.9	7003.0	6903.9	6702.1	6408.2	6192.2	6213.5	6054.2	5802.8	5172.6	4592.0
37.5°	7403.1	7427.9	7279.2	7126.9	6854.3	6486.1	6507.3	6291.4	6032.9	5381.5	4705.3
40°	7966.0	7916.4	7665.1	7484.5	7183.6	6794.1	6811.8	6556.9	6298.5	5579.7	4836.2
42.5°	8436.9	8348.4	8043.9	7813.8	7452.6	7119.8	7137.5	6843.7	6567.5	5799.2	4981.4
45°	9113.1	8868.8	8429.8	8316.5	7728.8	7438.5	7456.2	7148.2	6850.8	6032.9	5137.2
47.5°	9506.1	9116.6	8837.0	8776.8	8033.3	7767.7	7789.0	7470.3	7155.2	6298.5	5300.0
50°	9481.3	9229.9	9148.5	8999.8	8302.3	8075.8	8097.0	7803.1	7463.3	6560.4	5455.8
52.5°	9318.5	9364.5	9322.0	9074.2	8571.4	8373.2	8397.9	8132.4	7778.4	6804.7	5601.0
55°	9569.8	9601.7	9520.3	9194.5	8868.8	8670.5	8698.9	8479.4	8089.9	7020.7	5724.9
57.5°	9870.8	9757.5	9676.0	9407.0	9176.8	8992.7	9024.6	8833.4	8359.0	7194.2	5820.5
60°	9856.6	9619.4	9700.8	9421.1	9385.7	9290.1	9318.5	9123.7	8564.3	7321.6	5859.4
62.5°	9130.8	9003.4	9414.0	9318.5	9555.7	9555.7	9591.1	9300.7	8688.3	7374.7	5838.2
65°	7870.4	7877.5	8599.7	8996.3	9757.5	9920.3	9948.6	9410.5	8617.4	7219.0	5639.9
67.5°	6270.1	6316.2	7353.5	8178.4	9555.7	10168.2	10171.7	9509.6	8313.0	6780.0	5179.7
70°	4588.4	4623.8	5848.8	6850.8	8603.3	9619.4	9562.7	9229.9	7650.9	6015.2	4461.0
72.5°	3101.4	3133.3	4393.7	5261.1	7059.6	8192.6	8068.7	8157.2	6521.5	4942.5	3586.5
75°	2085.3	2124.3	3126.2	3763.5	5193.8	6220.6	5944.4	6178.1	5045.1	3742.3	2616.4
77.5°	1313.5	1338.3	1986.2	2467.7	3547.5	4234.4	3958.2	3961.8	2906.7	2014.5	1405.6
80°	835.5	842.6	1203.8	1423.3	2053.5	2545.6	2251.7	1830.4	1310.0	1069.2	839.1
82.5°	485.0	474.4	718.7	803.7	977.2	966.5	800.1	757.7	573.6	534.6	428.4
85°	194.7	180.6	315.1	293.9	297.4	315.1	233.7	233.7	187.6	145.2	106.2
87.5°	38.9	38.9	42.5	38.9	38.9	42.5	31.9	31.9	28.3	28.3	28.3
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: P841233

CATALOG NUMBER: ARCH4-150-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3	3880.3
2.5°	3852.0	3844.9	3827.2	3781.2	3756.4	3742.3	3721.0	3713.9	3710.4	3713.9	3724.5
5°	3862.6	3837.8	3788.3	3713.9	3664.4	3632.5	3597.1	3582.9	3572.3	3572.3	3582.9
7.5°	3869.7	3830.8	3745.8	3636.0	3565.2	3515.7	3473.2	3455.5	3451.9	3462.6	3466.1
10°	3873.2	3816.6	3696.2	3558.1	3466.1	3402.4	3359.9	3349.3	3359.9	3381.1	3384.7
12.5°	3898.0	3820.1	3667.9	3505.0	3395.3	3331.6	3299.7	3299.7	3328.0	3367.0	3370.5
15°	3940.5	3844.9	3653.7	3462.6	3349.3	3292.6	3282.0	3299.7	3342.2	3402.4	3409.4
17.5°	3972.4	3859.1	3621.9	3405.9	3289.1	3253.7	3271.4	3313.9	3374.0	3455.5	3462.6
20°	3993.6	3859.1	3575.8	3338.6	3228.9	3221.8	3271.4	3338.6	3402.4	3498.0	3508.6
22.5°	4014.9	3852.0	3522.7	3257.2	3161.6	3182.9	3274.9	3359.9	3423.6	3526.3	3544.0
25°	4053.8	3862.6	3469.6	3175.8	3090.8	3151.0	3271.4	3374.0	3441.3	3547.5	3575.8
27.5°	4106.9	3887.4	3430.7	3101.4	3020.0	3101.4	3246.6	3370.5	3441.3	3544.0	3575.8
30°	4163.6	3915.7	3384.7	3020.0	2938.6	3030.6	3193.5	3331.6	3413.0	3508.6	3547.5
32.5°	4223.8	3947.6	3345.7	2931.5	2839.4	2935.0	3115.6	3271.4	3359.9	3448.4	3490.9
35°	4305.2	4004.2	3324.5	2860.7	2750.9	2835.9	3016.5	3193.5	3289.1	3370.5	3420.1
37.5°	4404.3	4075.1	3313.9	2789.9	2655.3	2726.1	2910.2	3097.9	3200.6	3267.8	3313.9
40°	4517.6	4163.6	3310.3	2722.6	2559.7	2612.8	2800.5	2988.1	3087.3	3140.4	3179.3
42.5°	4645.1	4262.7	3303.2	2655.3	2464.1	2506.6	2694.3	2878.4	2963.4	3009.4	3044.8
45°	4779.6	4361.8	3289.1	2573.9	2361.5	2411.0	2584.5	2747.4	2835.9	2874.8	2913.8
47.5°	4914.1	4461.0	3260.7	2481.9	2269.4	2315.5	2467.7	2609.3	2680.1	2715.5	2754.5
50°	5045.1	4549.5	3193.5	2375.6	2173.8	2216.3	2333.2	2428.7	2481.9	2510.2	2549.1
52.5°	5162.0	4609.7	3097.9	2251.7	2078.2	2099.5	2177.4	2258.8	2301.3	2304.8	2340.2
55°	5261.1	4641.5	2959.8	2124.3	1975.6	1979.1	2021.6	2085.3	2103.0	2088.9	2113.6
57.5°	5317.7	4623.8	2807.6	1993.3	1869.4	1855.2	1887.1	1918.9	1922.5	1887.1	1911.8
60°	5331.9	4542.4	2609.3	1862.3	1763.1	1724.2	1734.8	1727.7	1720.7	1706.5	1727.7
62.5°	5261.1	4368.9	2389.8	1734.8	1649.8	1589.7	1586.1	1582.6	1593.2	1596.7	1600.3
65°	5002.6	4043.2	2127.8	1603.8	1529.5	1448.0	1444.5	1487.0	1501.1	1479.9	1487.0
67.5°	4503.4	3544.0	1841.0	1451.6	1377.2	1306.4	1334.7	1359.5	1384.3	1377.2	1384.3
70°	3795.4	2910.2	1579.0	1281.6	1210.8	1171.9	1203.8	1225.0	1228.5	1221.5	1228.5
72.5°	2984.6	2273.0	1334.7	1108.2	1044.4	1026.7	1065.7	1083.4	1115.2	1129.4	1132.9
75°	2156.1	1678.2	1094.0	920.5	867.4	867.4	902.8	934.7	963.0	945.3	934.7
77.5°	1203.8	1001.9	786.0	633.7	644.4	693.9	708.1	743.5	771.8	768.3	761.2
80°	729.3	626.7	531.1	410.7	407.2	446.1	538.1	598.3	612.5	580.6	577.1
82.5°	378.8	329.3	283.2	230.1	254.9	297.4	311.6	375.3	414.2	400.1	417.8
85°	95.6	92.1	102.7	106.2	131.0	145.2	159.3	187.6	123.9	60.2	60.2
87.5°	28.3	28.3	35.4	35.4	46.0	56.6	53.1	53.1	28.3	3.5	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)