

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: P836248

Luminaire Tested: **ARCH3-160-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21513 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

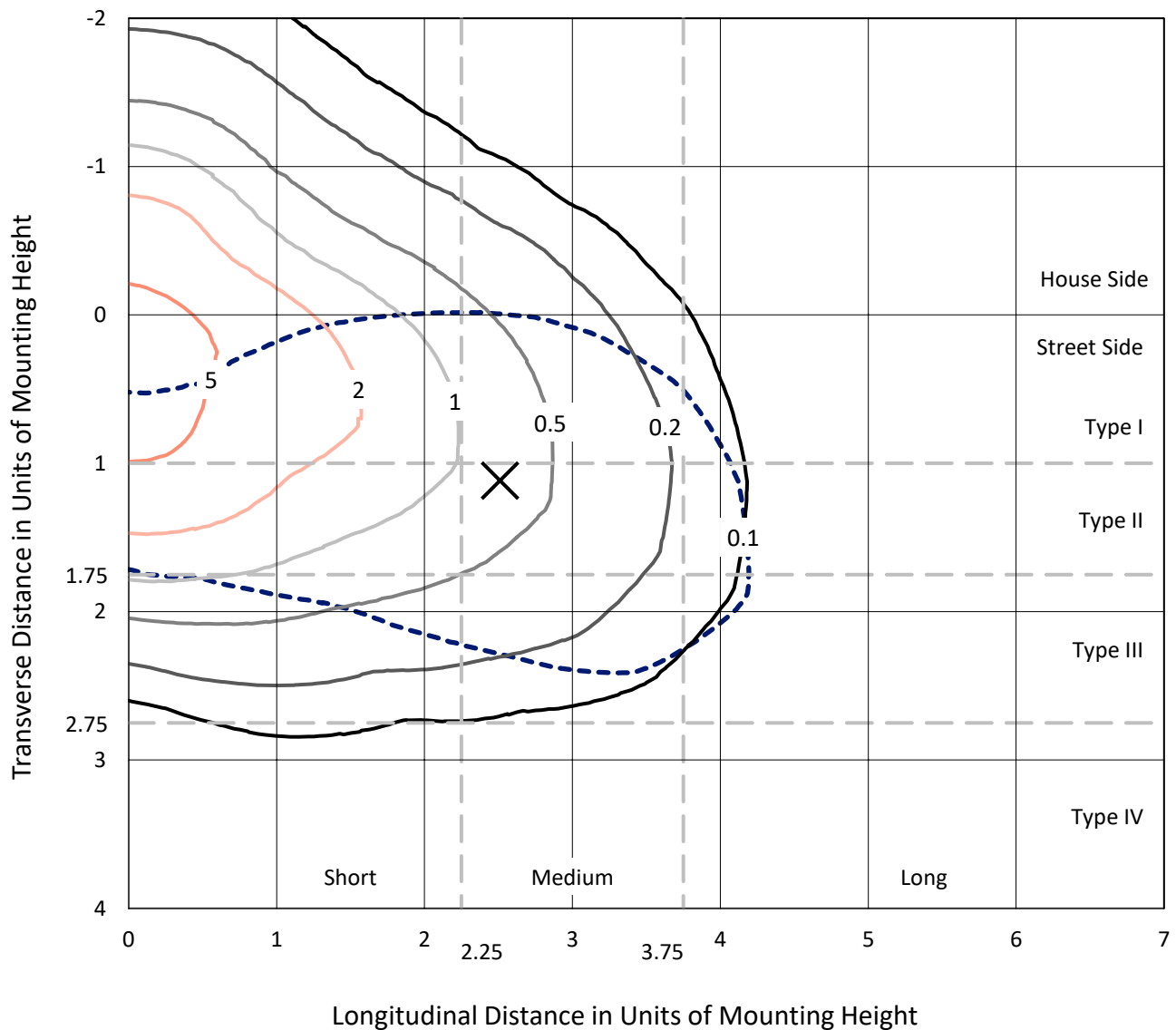
Input Watts (W): 161
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836248
 CATALOG NUMBER: ARCH3-160-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

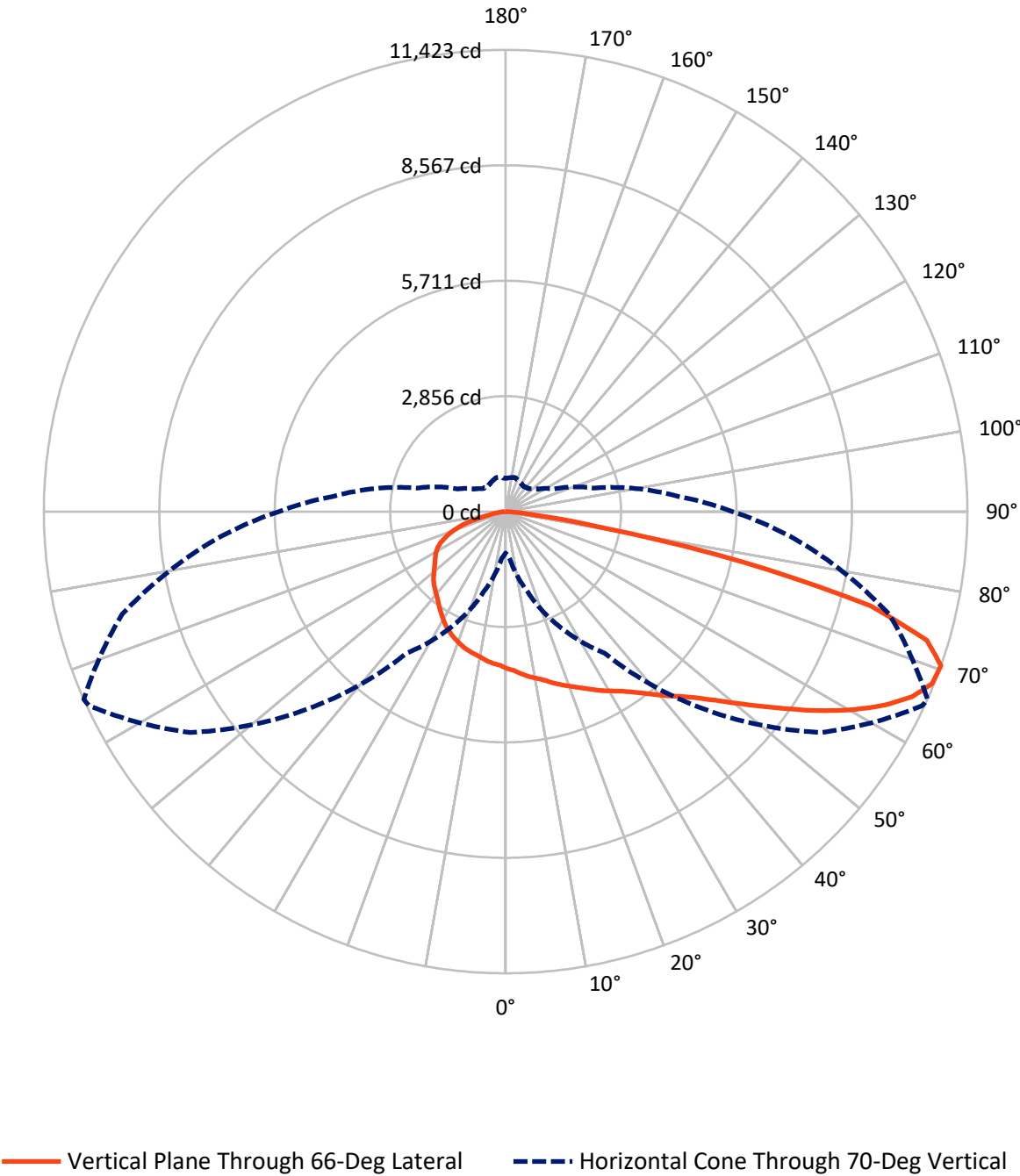
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P836248
CATALOG NUMBER: ARCH3-160-727-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5700.5	0.0	5700.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15812.5	0.0	15812.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	21513.0	0.0	21513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	1.7
10°-20°	1119.1	5.2
20°-30°	1876.0	8.7
30°-40°	2809.0	13.1
40°-50°	3755.6	17.5
50°-60°	4384.8	20.4
60°-70°	4360.0	20.3
70°-80°	2581.2	12.0
80°-90°	254.4	1.2
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°	21513.0	100.0
0°-180°	21513.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836248

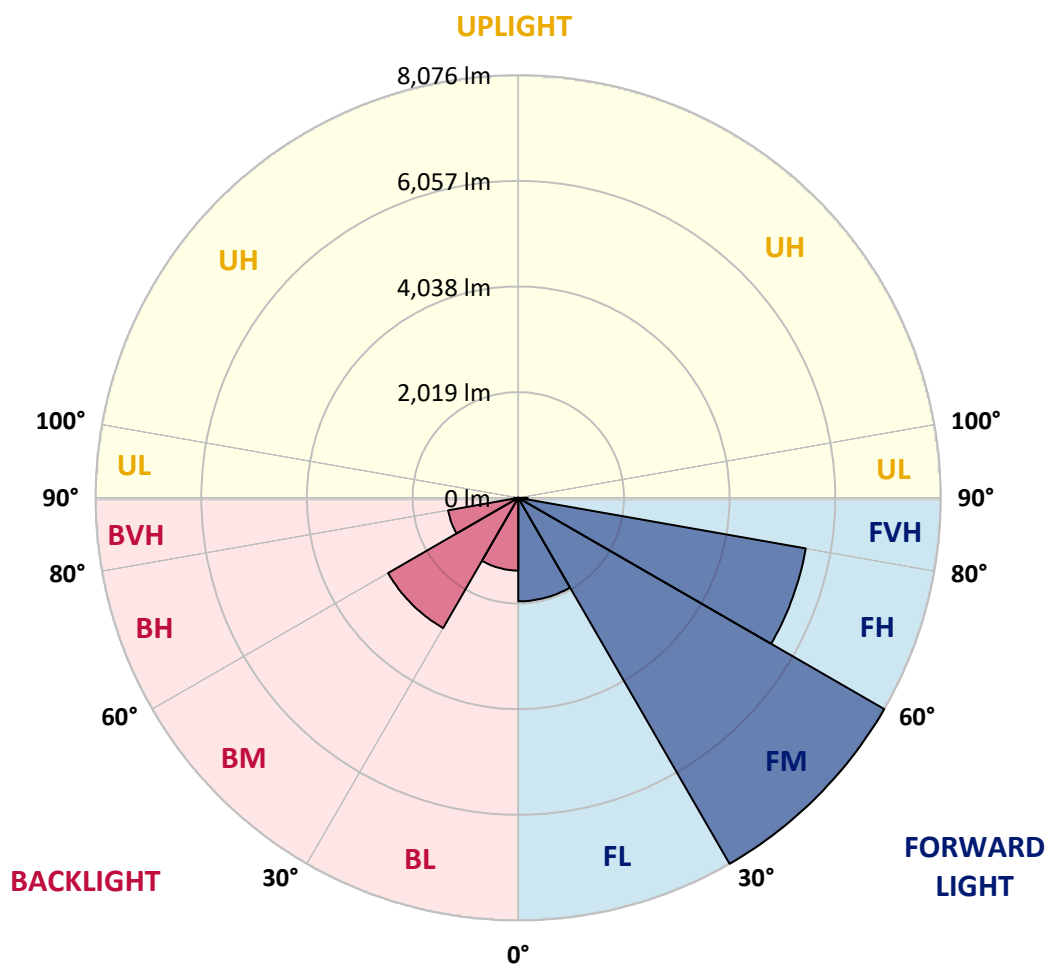
CATALOG NUMBER: ARCH3-160-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.6	9.2			
FM	(30°-60°)	8075.7	37.5			
FH	(60°-80°)	5579.4	25.9			G3/7500
FVH	(80°-90°)	178.8	0.8			G2/225
BL	(0°-30°)	1389.5	6.5	B3/2500		
BM	(30°-60°)	2873.6	13.4	B3/5000		
BH	(60°-80°)	1361.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	75.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P836248

CATALOG NUMBER: ARCH3-160-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6
2.5°	4025.3	4019.0	4015.8	4003.1	3974.6	3987.3	3958.7	3939.7	3936.5	3892.1	3866.7
5°	4190.3	4187.1	4180.8	4161.7	4117.3	4123.7	4076.1	4041.2	4031.7	3961.9	3908.0
7.5°	4329.9	4323.5	4320.4	4295.0	4247.4	4244.2	4187.1	4136.4	4120.5	4025.3	3942.9
10°	4437.7	4428.2	4434.5	4409.2	4358.4	4348.9	4275.9	4209.3	4193.5	4072.9	3958.7
12.5°	4529.7	4523.4	4532.9	4510.7	4469.4	4459.9	4387.0	4301.3	4282.3	4142.7	3993.6
15°	4631.2	4609.0	4628.0	4618.5	4590.0	4586.8	4520.2	4425.0	4399.7	4231.5	4047.6
17.5°	4685.1	4672.5	4694.7	4697.8	4685.1	4707.3	4643.9	4529.7	4507.5	4314.0	4095.1
20°	4723.2	4704.2	4729.5	4748.6	4758.1	4802.5	4751.8	4640.7	4615.4	4393.3	4139.5
22.5°	4853.3	4812.0	4815.2	4827.9	4834.2	4897.7	4865.9	4758.1	4732.7	4491.6	4193.5
25°	5180.0	5097.5	5043.6	5005.5	4961.1	5015.0	4996.0	4891.3	4869.1	4609.0	4260.1
27.5°	5687.5	5582.8	5475.0	5364.0	5189.5	5167.3	5135.6	5040.4	5015.0	4726.4	4326.7
30°	6264.8	6160.1	6033.3	5855.6	5528.9	5357.6	5284.7	5180.0	5151.4	4831.1	4390.1
32.5°	6839.0	6747.0	6620.1	6404.4	5938.1	5589.2	5433.7	5325.9	5297.3	4945.2	4466.3
35°	7286.2	7229.1	7146.7	6877.0	6344.1	5862.0	5649.4	5519.4	5487.7	5126.1	4605.8
37.5°	7647.8	7606.6	7536.8	7254.5	6639.1	6134.8	5896.9	5747.8	5712.9	5322.7	4754.9
40°	8180.8	8072.9	8015.8	7606.6	6896.1	6382.2	6176.0	6020.6	5982.5	5532.1	4875.5
42.5°	8634.4	8555.1	8485.3	7920.6	7140.3	6594.7	6439.3	6296.5	6245.8	5738.3	5005.5
45°	8710.5	8742.2	8707.3	8076.1	7527.3	6804.1	6705.7	6613.8	6566.2	6017.4	5202.2
47.5°	8713.7	8713.7	8507.5	8164.9	8006.3	7038.8	6991.2	7023.0	6972.2	6372.7	5436.9
50°	8485.3	8526.5	8418.7	8187.1	8133.2	7273.5	7340.2	7511.4	7460.7	6750.2	5690.7
52.5°	8012.6	8149.0	8145.9	8152.2	7949.2	7473.4	7708.1	8098.3	8012.6	7175.2	5960.3
55°	7178.4	7451.2	7695.4	7904.8	7790.6	7593.9	8158.5	8723.2	8634.4	7651.0	6233.1
57.5°	6464.7	6639.1	6943.6	7536.8	7603.4	7698.6	8580.4	9376.6	9297.3	8177.6	6518.6
60°	5649.4	5890.5	6195.0	7038.8	7375.0	7835.0	9043.6	10014.2	9938.1	8710.5	6794.6
62.5°	4396.5	4707.3	5316.4	6274.3	7042.0	7920.6	9408.3	10575.7	10540.8	9214.8	7042.0
65°	3064.2	3340.2	4193.5	5335.4	6512.2	7882.6	9700.2	11076.8	11045.1	9627.2	7216.4
67.5°	1789.0	2109.4	3073.7	4295.0	5576.5	7619.3	9795.3	11371.9	11371.9	9877.8	7264.0
70°	1021.4	1170.5	2026.9	3130.8	4275.9	6892.9	9528.9	11368.7	11422.6	9820.7	7067.4
72.5°	713.7	780.3	1364.0	2106.3	2899.3	5576.5	8831.0	10819.9	10892.9	9281.5	6394.9
75°	555.1	602.7	961.1	1436.9	1827.1	3787.4	7305.3	9122.9	9316.4	7911.1	5170.5
77.5°	421.9	456.8	561.5	897.7	1170.5	2176.0	4821.5	5982.5	5995.2	4843.7	2772.4
80°	307.7	342.6	374.3	548.8	621.7	1018.2	1820.8	2499.6	2429.8	2344.2	1500.4
82.5°	184.0	218.9	228.4	298.2	304.5	434.6	637.6	805.7	774.0	1030.9	704.2
85°	79.3	111.0	117.4	136.4	130.1	177.6	253.8	212.5	190.3	218.9	152.3
87.5°	19.0	31.7	31.7	34.9	28.5	44.4	47.6	34.9	31.7	38.1	38.1
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: P836248

CATALOG NUMBER: ARCH3-160-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6	3882.6
2.5°	3860.4	3850.9	3854.1	3800.1	3784.3	3768.4	3758.9	3752.6	3746.2	3755.7	3765.2
5°	3889.0	3866.7	3841.4	3762.1	3730.3	3695.5	3670.1	3647.9	3638.4	3638.4	3647.9
7.5°	3911.2	3873.1	3819.2	3714.5	3657.4	3609.8	3568.6	3540.0	3524.2	3524.2	3533.7
10°	3914.3	3860.4	3774.8	3647.9	3571.7	3502.0	3454.4	3422.7	3400.5	3400.5	3406.8
12.5°	3933.4	3860.4	3749.4	3597.1	3502.0	3416.3	3359.2	3311.6	3302.1	3302.1	3308.5
15°	3965.1	3876.3	3733.5	3552.7	3438.5	3340.2	3276.7	3226.0	3207.0	3219.6	3222.8
17.5°	3993.6	3885.8	3705.0	3495.6	3359.2	3251.4	3181.6	3137.2	3111.8	3140.3	3140.3
20°	4012.7	3885.8	3663.7	3422.7	3273.6	3153.0	3086.4	3032.5	3013.5	3048.4	3051.5
22.5°	4041.2	3882.6	3619.3	3349.7	3181.6	3054.7	2988.1	2946.8	2937.3	2975.4	2988.1
25°	4072.9	3889.0	3571.7	3267.2	3080.1	2956.4	2905.6	2886.6	2892.9	2940.5	2956.4
27.5°	4107.8	3901.6	3524.2	3175.2	2969.1	2858.0	2829.5	2839.0	2864.4	2924.6	2943.7
30°	4139.5	3904.8	3457.5	3067.4	2842.2	2737.5	2750.2	2791.4	2829.5	2889.8	2912.0
32.5°	4180.8	3908.0	3387.8	2950.0	2705.8	2629.6	2686.7	2753.4	2791.4	2848.5	2873.9
35°	4282.3	3961.9	3333.8	2835.8	2578.9	2537.7	2632.8	2718.5	2740.7	2791.4	2813.6
37.5°	4399.7	4050.7	3305.3	2718.5	2455.2	2445.7	2566.2	2651.8	2658.2	2689.9	2712.1
40°	4472.6	4088.8	3273.6	2620.1	2344.2	2350.5	2474.2	2540.8	2528.1	2550.3	2566.2
42.5°	4545.6	4101.5	3207.0	2537.7	2239.5	2245.8	2341.0	2388.6	2394.9	2442.5	2464.7
45°	4669.3	4136.4	3134.0	2461.5	2144.3	2122.1	2179.2	2242.6	2325.1	2417.1	2442.5
47.5°	4834.2	4209.3	3057.9	2369.5	2052.3	1979.4	2001.6	2112.6	2198.2	2283.9	2299.7
50°	5002.3	4282.3	2988.1	2258.5	1960.3	1827.1	1836.6	1938.1	2007.9	2074.5	2084.0
52.5°	5167.3	4345.7	2927.8	2153.8	1855.7	1646.3	1684.4	1789.0	1836.6	1868.3	1877.9
55°	5332.2	4399.7	2873.9	2065.0	1735.1	1503.6	1538.5	1636.8	1684.4	1700.2	1706.6
57.5°	5503.5	4463.1	2832.7	1988.9	1598.7	1376.7	1398.9	1468.7	1513.1	1532.1	1525.8
60°	5646.3	4517.0	2810.4	1909.6	1462.3	1259.3	1253.0	1316.4	1379.8	1398.9	1392.5
62.5°	5757.3	4551.9	2775.6	1808.1	1341.8	1141.9	1110.2	1192.7	1259.3	1272.0	1281.5
65°	5817.6	4555.1	2689.9	1678.0	1218.1	1015.1	992.9	1075.3	1116.6	1129.3	1129.3
67.5°	5808.0	4504.3	2521.8	1503.6	1103.9	900.9	881.8	932.6	992.9	1002.4	992.9
70°	5611.4	4295.0	2252.2	1319.6	967.5	799.4	764.5	815.2	872.3	837.4	821.6
72.5°	5053.1	3752.6	1855.7	1116.6	815.2	672.5	656.6	707.4	710.5	716.9	701.0
75°	3987.3	2794.6	1389.4	869.1	659.8	564.6	561.5	551.9	564.6	590.0	571.0
77.5°	2093.6	1395.7	751.8	532.9	479.0	453.6	431.4	428.2	466.3	482.2	463.1
80°	1135.6	783.5	431.4	320.4	291.8	295.0	323.6	317.2	358.4	368.0	352.1
82.5°	494.8	371.1	212.5	193.5	193.5	190.3	199.8	222.0	266.5	266.5	212.5
85°	107.9	92.0	82.5	95.2	107.9	107.9	107.9	107.9	76.1	41.2	28.5
87.5°	34.9	34.9	34.9	38.1	41.2	41.2	34.9	25.4	15.9	3.2	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)