

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: P841818

Luminaire Tested: **ARCH4-230-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841818
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: ARCH4-230-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33859 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 231.2
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

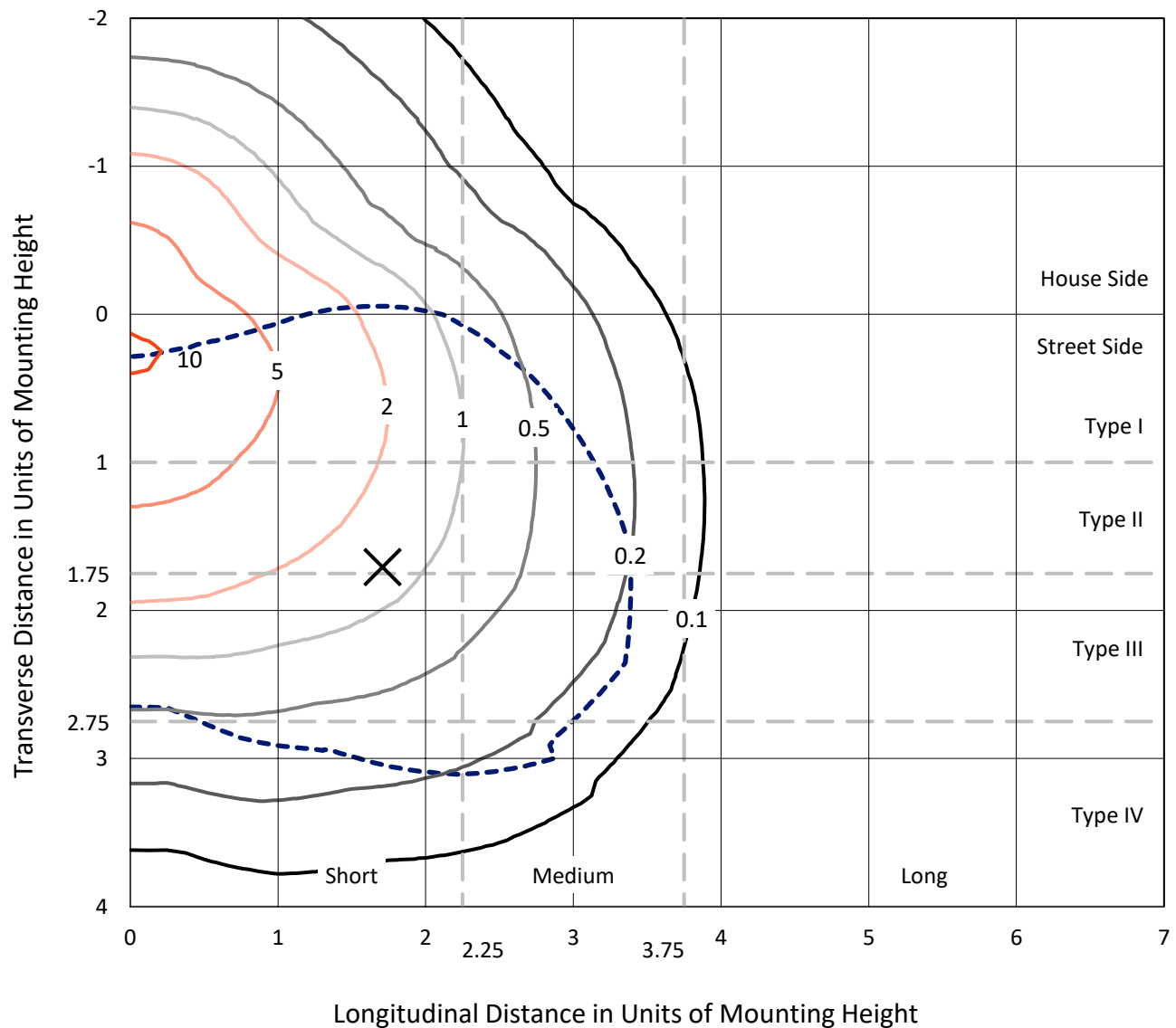


REPORT NUMBER: P841818

CATALOG NUMBER: ARCH4-230-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

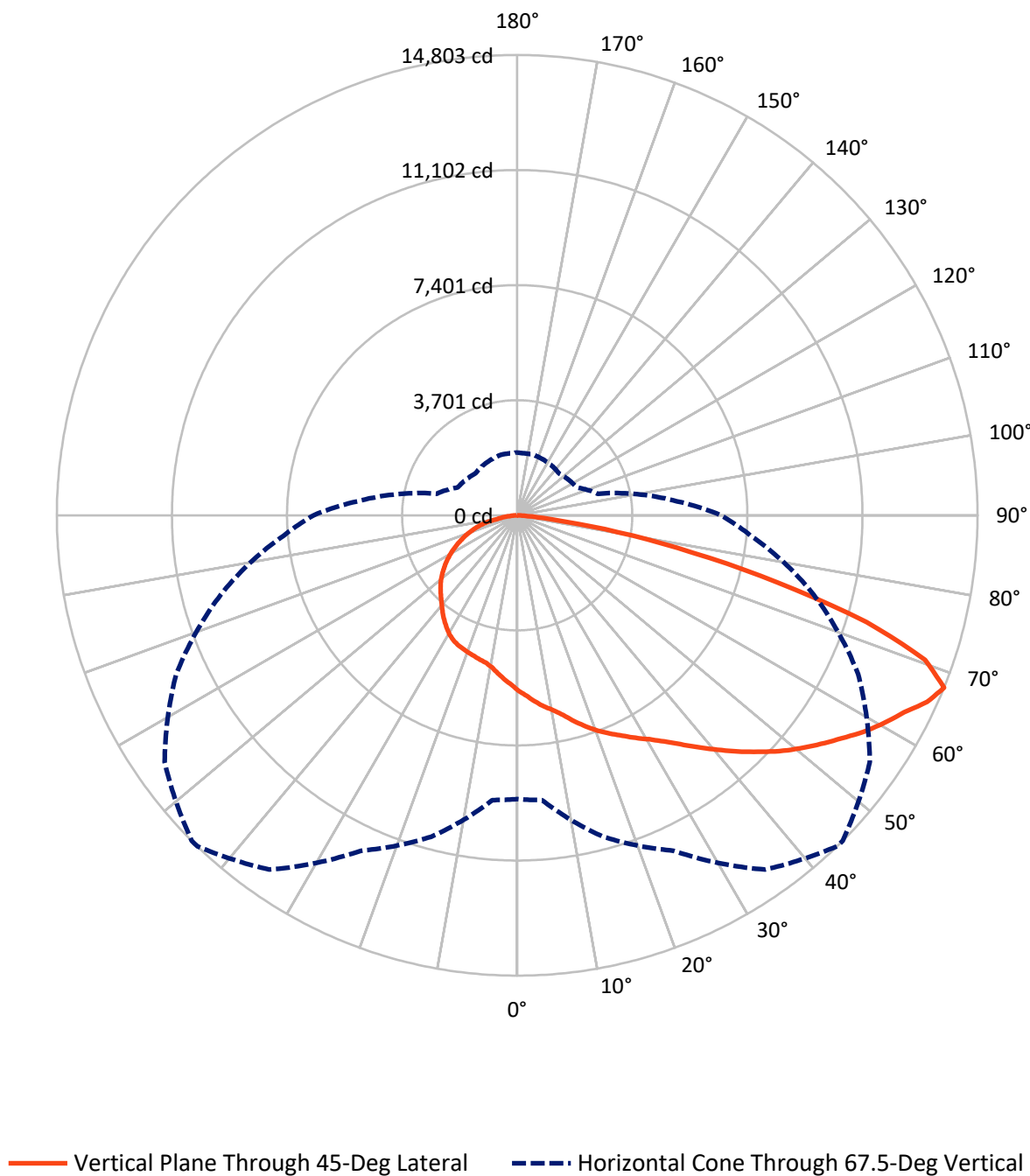
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Short - N/A

REPORT NUMBER: P841818
CATALOG NUMBER: ARCH4-230-730-U-T4W

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9045.5	0.0	9045.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	24813.5	0.0	24813.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	33859.0	0.0	33859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	1.6
10°-20°	1670.2	4.9
20°-30°	2883.0	8.5
30°-40°	4251.4	12.6
40°-50°	5759.8	17.0
50°-60°	7039.8	20.8
60°-70°	7260.6	21.4
70°-80°	3976.8	11.7
80°-90°	476.7	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°	33859.0	100.0
0°-180°	33859.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841818

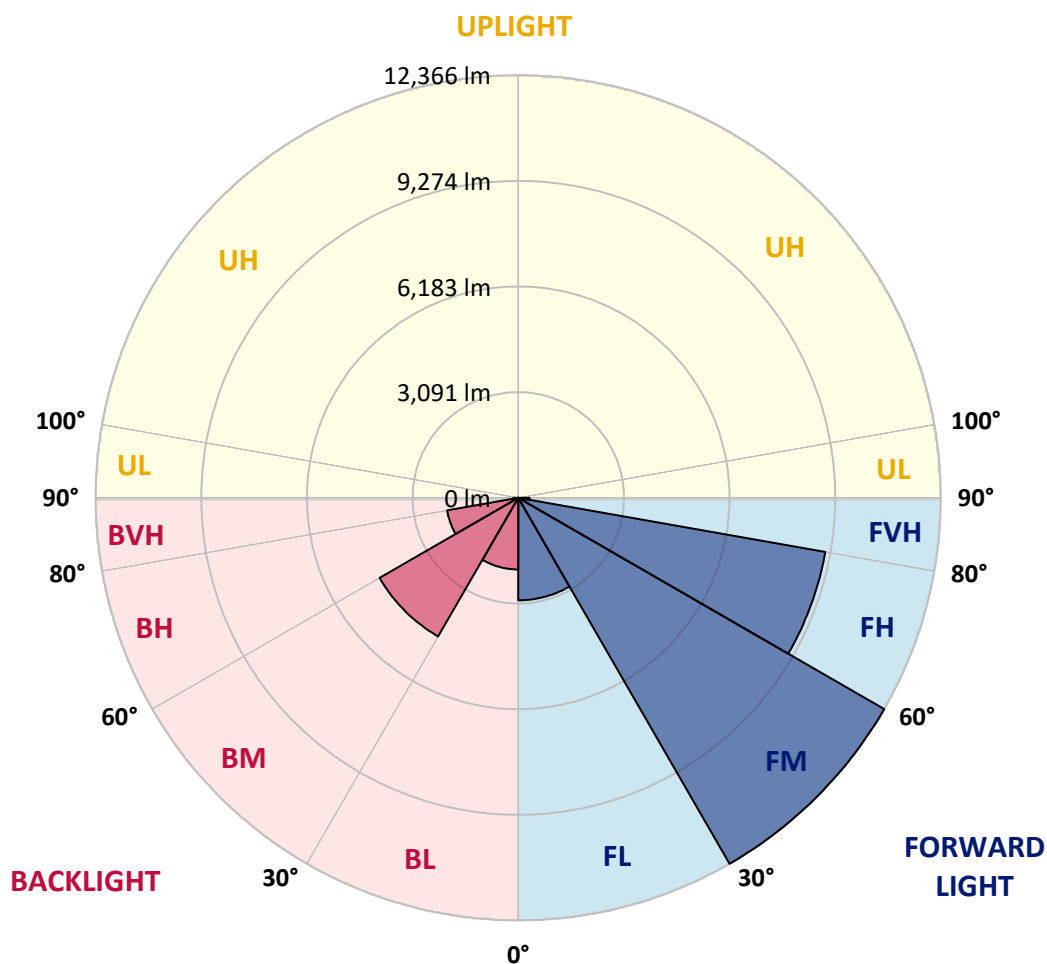
CATALOG NUMBER: ARCH4-230-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2997.4	8.9			
FM	(30°-60°)	12365.6	36.5			
FH	(60°-80°)	9122.1	26.9			G4/12000
FVH	(80°-90°)	328.4	1.0			G3/500
BL	(0°-30°)	2096.4	6.2	B3/2500		
BM	(30°-60°)	4685.4	13.8	B3/5000		
BH	(60°-80°)	2115.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	148.3	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-G4

Type IV Short



REPORT NUMBER: P841818

CATALOG NUMBER: ARCH4-230-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0
2.5°	5894.4	5889.2	5899.5	5863.4	5817.1	5811.9	5811.9	5781.0	5744.9	5672.8	5616.1
5°	6172.6	6162.3	6167.4	6115.9	6054.1	6023.2	6018.0	5951.0	5868.6	5755.2	5652.2
7.5°	6430.2	6419.9	6414.7	6358.1	6265.3	6213.8	6208.7	6110.8	6012.9	5837.7	5688.3
10°	6672.4	6662.1	6651.8	6574.5	6461.1	6383.8	6373.5	6249.9	6126.2	5909.8	5719.2
12.5°	6981.5	6960.9	6950.6	6857.9	6693.0	6610.5	6595.1	6430.2	6275.6	6012.9	5781.0
15°	7306.1	7290.7	7275.2	7187.6	7002.1	6893.9	6868.2	6662.1	6450.8	6146.8	5873.7
17.5°	7548.3	7532.8	7532.8	7455.5	7285.5	7161.8	7141.2	6893.9	6631.1	6270.5	5945.9
20°	7697.7	7682.2	7697.7	7651.3	7522.5	7419.5	7398.9	7125.8	6811.5	6383.8	6007.7
22.5°	7805.9	7790.4	7816.2	7795.6	7702.8	7641.0	7625.6	7357.6	6997.0	6502.3	6069.5
25°	7996.5	7996.5	7996.5	7960.5	7872.9	7852.3	7852.3	7620.4	7234.0	6656.9	6162.3
27.5°	8377.8	8357.2	8331.4	8228.4	8079.0	8073.8	8104.7	7888.3	7507.1	6857.9	6275.6
30°	8939.4	8929.1	8831.2	8614.8	8362.4	8336.6	8357.2	8176.9	7800.7	7069.1	6404.4
32.5°	9665.9	9629.9	9428.9	9104.3	8743.6	8625.1	8666.4	8475.7	8109.9	7285.5	6528.1
35°	10181.2	10191.5	10047.2	9753.5	9325.9	9011.6	9042.5	8810.6	8444.8	7527.7	6682.7
37.5°	10773.7	10809.8	10593.4	10371.8	9975.1	9439.2	9470.1	9155.8	8779.7	7831.7	6847.6
40°	11592.9	11520.8	11155.0	10892.2	10454.2	9887.5	9913.2	9542.3	9166.1	8120.2	7038.2
42.5°	12278.2	12149.4	11706.3	11371.4	10845.8	10361.5	10387.3	9959.6	9557.7	8439.6	7249.4
45°	13262.3	12906.8	12267.9	12103.0	11247.7	10825.2	10851.0	10402.7	9969.9	8779.7	7476.1
47.5°	13834.2	13267.5	12860.4	12772.8	11690.8	11304.4	11335.3	10871.6	10413.0	9166.1	7713.2
50°	13798.1	13432.3	13313.8	13097.4	12082.4	11752.6	11783.6	11355.9	10861.3	9547.4	7939.9
52.5°	13561.1	13628.1	13566.3	13205.6	12474.0	12185.4	12221.5	11835.1	11319.8	9902.9	8151.1
55°	13927.0	13973.3	13854.8	13380.8	12906.8	12618.2	12659.5	12340.0	11773.3	10217.2	8331.4
57.5°	14364.9	14200.0	14081.5	13689.9	13355.0	13087.1	13133.5	12855.3	12164.8	10469.7	8470.6
60°	14344.3	13999.1	14117.6	13710.6	13659.0	13519.9	13561.1	13277.8	12463.7	10655.2	8527.2
62.5°	13288.1	13102.6	13700.3	13561.1	13906.3	13906.3	13957.9	13535.4	12644.0	10732.5	8496.3
65°	11453.8	11464.1	12515.2	13092.3	14200.0	14437.0	14478.3	13695.1	12541.0	10505.8	8207.8
67.5°	9124.9	9191.9	10701.6	11902.1	13906.3	14797.7	14802.9	13839.4	12097.9	9866.9	7538.0
70°	6677.5	6729.0	8511.8	9969.9	12520.4	13999.1	13916.7	13432.3	11134.4	8753.9	6492.0
72.5°	4513.5	4559.9	6394.1	7656.5	10273.9	11922.7	11742.3	11871.1	9490.7	7192.8	5219.4
75°	3034.8	3091.4	4549.6	5477.0	7558.6	9052.8	8650.9	8991.0	7342.2	5446.1	3807.6
77.5°	1911.5	1947.6	2890.5	3591.2	5162.7	6162.3	5760.4	5765.5	4230.1	2931.7	2045.5
80°	1216.0	1226.3	1751.8	2071.3	2988.4	3704.6	3276.9	2663.8	1906.4	1556.0	1221.1
82.5°	705.9	690.4	1045.9	1169.6	1422.1	1406.6	1164.4	1102.6	834.7	778.0	623.4
85°	283.4	262.8	458.6	427.6	432.8	458.6	340.1	340.1	273.1	211.2	154.6
87.5°	56.7	56.7	61.8	56.7	56.7	61.8	46.4	46.4	41.2	41.2	41.2
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: P841818

CATALOG NUMBER: ARCH4-230-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0	5647.0
2.5°	5605.8	5595.5	5569.8	5502.8	5466.7	5446.1	5415.2	5404.9	5399.7	5404.9	5420.3
5°	5621.3	5585.2	5513.1	5404.9	5332.7	5286.4	5234.8	5214.2	5198.8	5198.8	5214.2
7.5°	5631.6	5574.9	5451.2	5291.5	5188.5	5116.3	5054.5	5028.8	5023.6	5039.1	5044.2
10°	5636.7	5554.3	5379.1	5178.2	5044.2	4951.5	4889.6	4874.2	4889.6	4920.5	4925.7
12.5°	5672.8	5559.4	5337.9	5100.9	4941.2	4848.4	4802.0	4802.0	4843.3	4899.9	4905.1
15°	5734.6	5595.5	5317.3	5039.1	4874.2	4791.7	4776.3	4802.0	4863.9	4951.5	4961.8
17.5°	5781.0	5616.1	5270.9	4956.6	4786.6	4735.1	4760.8	4822.7	4910.2	5028.8	5039.1
20°	5811.9	5616.1	5203.9	4858.7	4699.0	4688.7	4760.8	4858.7	4951.5	5090.6	5106.0
22.5°	5842.8	5605.8	5126.6	4740.2	4601.1	4632.0	4766.0	4889.6	4982.4	5131.8	5157.6
25°	5899.5	5621.3	5049.4	4621.7	4498.1	4585.6	4760.8	4910.2	5008.1	5162.7	5203.9
27.5°	5976.8	5657.3	4992.7	4513.5	4395.0	4513.5	4724.8	4905.1	5008.1	5157.6	5203.9
30°	6059.2	5698.6	4925.7	4395.0	4276.5	4410.5	4647.5	4848.4	4966.9	5106.0	5162.7
32.5°	6146.8	5744.9	4869.0	4266.2	4132.2	4271.3	4534.1	4760.8	4889.6	5018.4	5080.3
35°	6265.3	5827.4	4838.1	4163.1	4003.4	4127.1	4389.9	4647.5	4786.6	4905.1	4977.2
37.5°	6409.6	5930.4	4822.7	4060.1	3864.3	3967.4	4235.3	4508.4	4657.8	4755.7	4822.7
40°	6574.5	6059.2	4817.5	3962.2	3725.2	3802.5	4075.6	4348.6	4492.9	4570.2	4626.9
42.5°	6760.0	6203.5	4807.2	3864.3	3586.1	3647.9	3921.0	4188.9	4312.6	4379.5	4431.1
45°	6955.8	6347.8	4786.6	3745.8	3436.7	3508.8	3761.3	3998.3	4127.1	4183.8	4240.4
47.5°	7151.5	6492.0	4745.4	3611.8	3302.7	3369.7	3591.2	3797.3	3900.4	3951.9	4008.6
50°	7342.2	6620.8	4647.5	3457.3	3163.6	3225.4	3395.4	3534.6	3611.8	3653.1	3709.7
52.5°	7512.2	6708.4	4508.4	3276.9	3024.5	3055.4	3168.7	3287.2	3349.1	3354.2	3405.7
55°	7656.5	6754.8	4307.4	3091.4	2875.0	2880.2	2942.0	3034.8	3060.5	3039.9	3076.0
57.5°	7738.9	6729.0	4085.9	2900.8	2720.5	2699.9	2746.2	2792.6	2797.8	2746.2	2782.3
60°	7759.5	6610.5	3797.3	2710.2	2565.9	2509.2	2524.7	2514.4	2504.1	2483.5	2514.4
62.5°	7656.5	6358.1	3477.9	2524.7	2401.0	2313.4	2308.3	2303.1	2318.6	2323.7	2328.9
65°	7280.4	5884.0	3096.6	2334.0	2225.8	2107.3	2102.2	2164.0	2184.6	2153.7	2164.0
67.5°	6553.9	5157.6	2679.3	2112.5	2004.3	1901.2	1942.5	1978.5	2014.6	2004.3	2014.6
70°	5523.4	4235.3	2298.0	1865.2	1762.1	1705.4	1751.8	1782.7	1787.9	1777.6	1787.9
72.5°	4343.5	3307.8	1942.5	1612.7	1520.0	1494.2	1550.9	1576.6	1623.0	1643.6	1648.8
75°	3137.8	2442.2	1592.1	1339.6	1262.3	1262.3	1313.9	1360.2	1401.5	1375.7	1360.2
77.5°	1751.8	1458.1	1143.8	922.3	937.7	1009.9	1030.5	1082.0	1123.2	1118.1	1107.8
80°	1061.4	912.0	772.9	597.7	592.5	649.2	783.2	870.8	891.4	845.0	839.8
82.5°	551.3	479.2	412.2	334.9	371.0	432.8	453.4	546.2	602.8	582.2	608.0
85°	139.1	134.0	149.4	154.6	190.6	211.2	231.9	273.1	180.3	87.6	87.6
87.5°	41.2	41.2	51.5	51.5	67.0	82.4	77.3	77.3	41.2	5.2	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)