

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: P842158

Luminaire Tested: **ARCH4-280-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-280-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35020 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 279.7
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



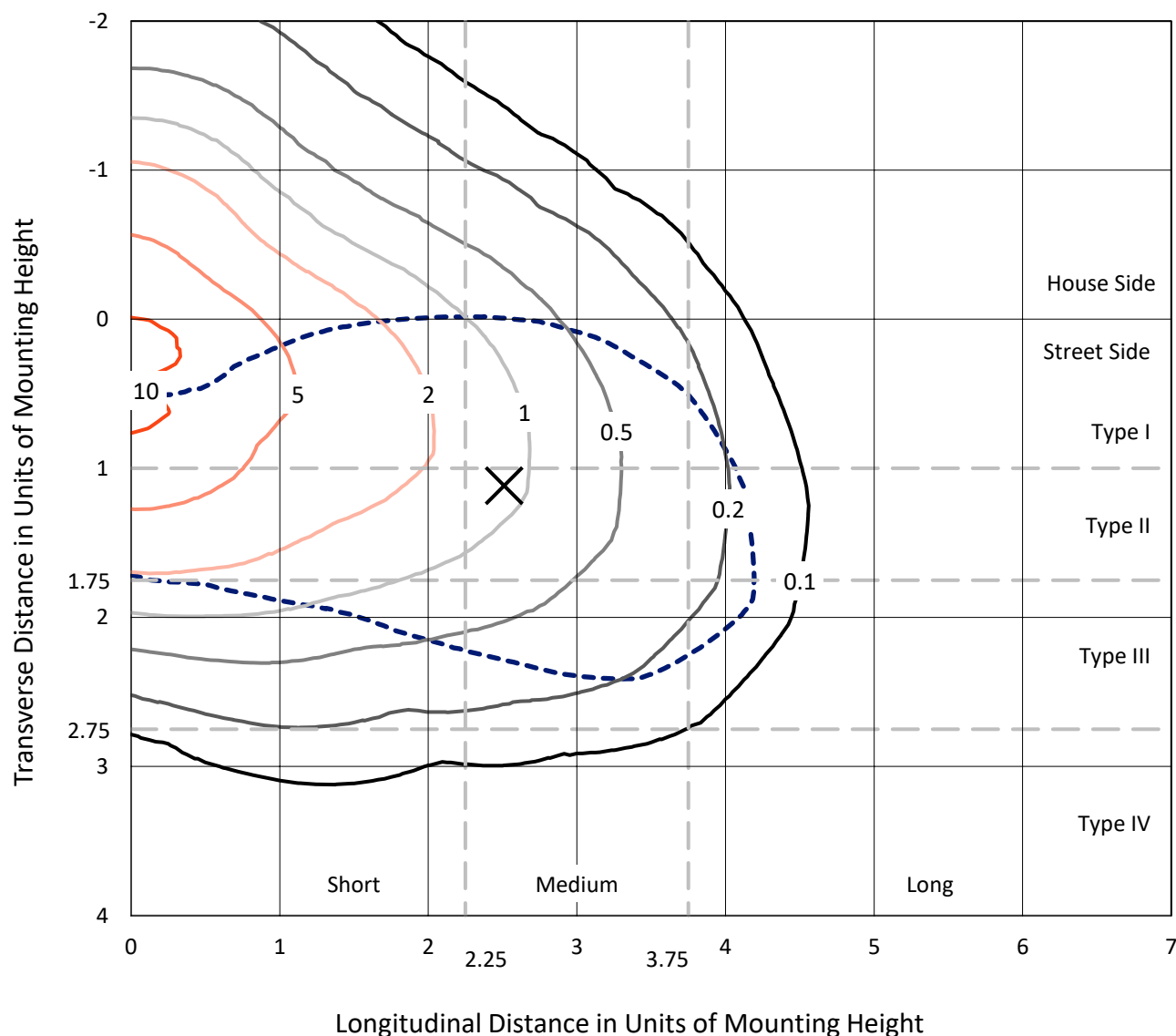
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

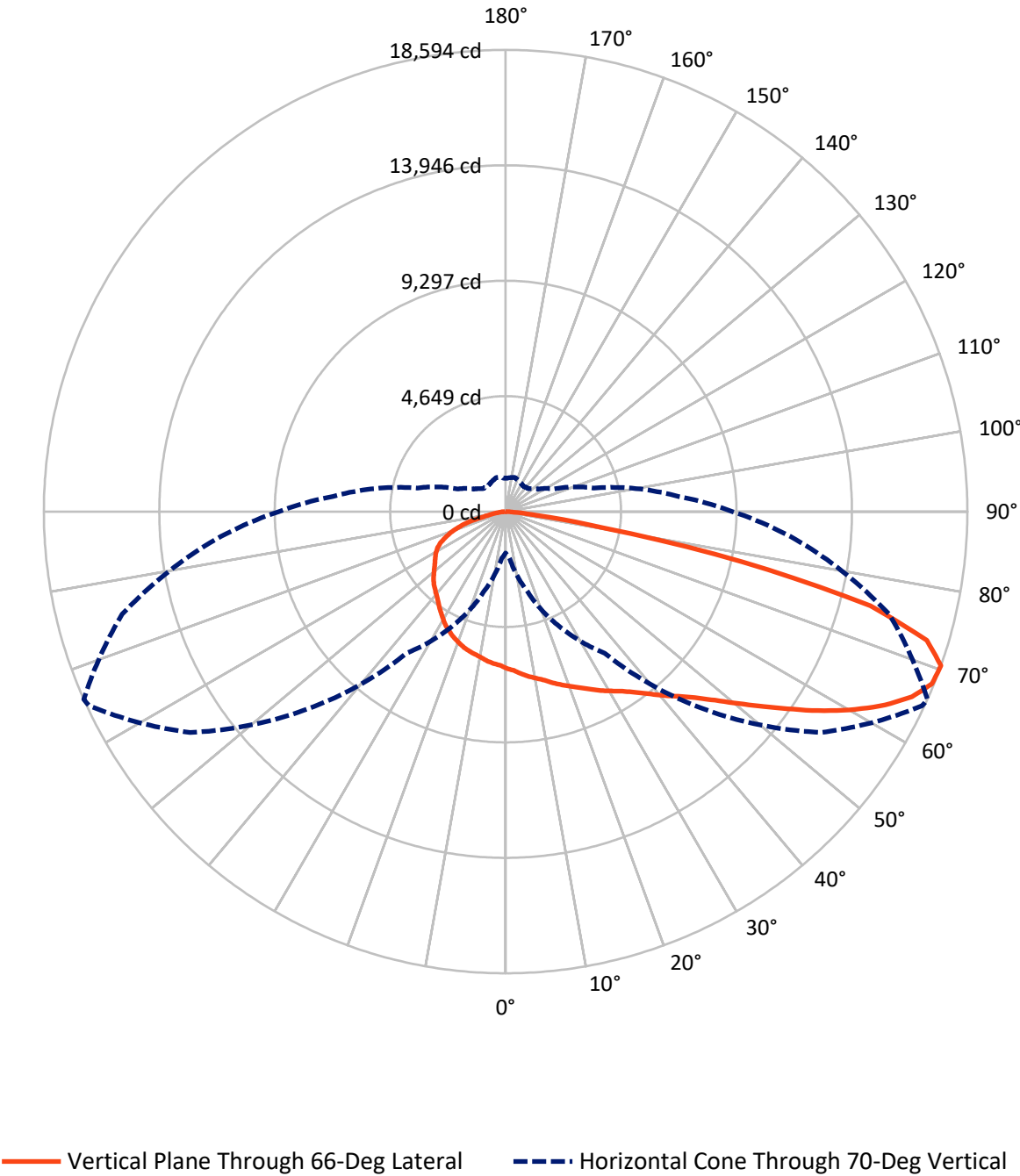
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9279.5	0.0	9279.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	25740.5	0.0	25740.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	35020.0	0.0	35020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	1.7
10°-20°	1821.7	5.2
20°-30°	3053.8	8.7
30°-40°	4572.6	13.1
40°-50°	6113.5	17.5
50°-60°	7137.8	20.4
60°-70°	7097.4	20.3
70°-80°	4201.8	12.0
80°-90°	414.1	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°	35020.0	100.0
0°-180°	35020.0	100.0

Coefficient of Utilization



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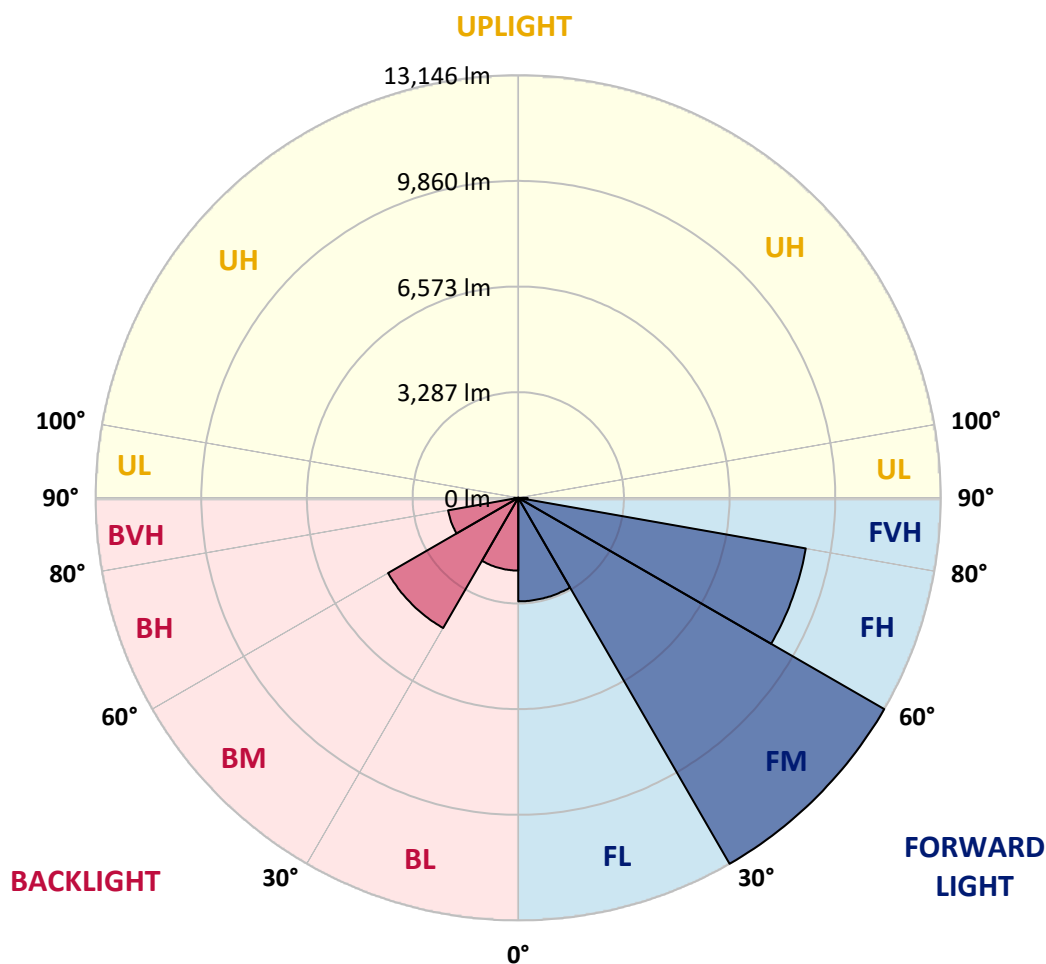
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3220.9	9.2			
FM	(30°-60°)	13146.0	37.5			
FH	(60°-80°)	9082.5	25.9			G4/12000
FVH	(80°-90°)	291.1	0.8			G3/500
BL	(0°-30°)	2261.9	6.5	B3/2500		
BM	(30°-60°)	4677.8	13.4	B3/5000		
BH	(60°-80°)	2216.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	123.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3
2.5°	6552.7	6542.3	6537.2	6516.5	6470.1	6490.7	6444.2	6413.3	6408.1	6335.8	6294.5
5°	6821.2	6816.0	6805.7	6774.7	6702.4	6712.8	6635.3	6578.5	6563.0	6449.4	6361.6
7.5°	7048.4	7038.1	7032.9	6991.6	6914.1	6909.0	6816.0	6733.4	6707.6	6552.7	6418.4
10°	7224.0	7208.5	7218.8	7177.5	7094.9	7079.4	6960.6	6852.2	6826.4	6630.1	6444.2
12.5°	7373.7	7363.4	7378.9	7342.7	7275.6	7260.1	7141.3	7001.9	6970.9	6743.7	6501.0
15°	7538.9	7502.8	7533.8	7518.3	7471.8	7466.6	7358.2	7203.3	7162.0	6888.3	6588.8
17.5°	7626.7	7606.1	7642.2	7647.4	7626.7	7662.9	7559.6	7373.7	7337.6	7022.6	6666.3
20°	7688.7	7657.7	7699.0	7730.0	7745.5	7817.8	7735.2	7554.4	7513.1	7151.7	6738.6
22.5°	7900.4	7833.3	7838.4	7859.1	7869.4	7972.7	7921.0	7745.5	7704.2	7311.7	6826.4
25°	8432.2	8298.0	8210.2	8148.2	8076.0	8163.7	8132.8	7962.4	7926.2	7502.8	6934.8
27.5°	9258.4	9088.0	8912.5	8731.7	8447.7	8411.6	8360.0	8205.0	8163.7	7693.8	7043.2
30°	10198.2	10027.8	9821.3	9532.1	9000.2	8721.4	8602.6	8432.2	8385.8	7864.2	7146.5
32.5°	11132.8	10983.1	10776.5	10425.4	9666.4	9098.4	8845.3	8669.8	8623.3	8050.1	7270.4
35°	11860.9	11768.0	11633.7	11194.8	10327.3	9542.4	9196.5	8984.8	8933.1	8344.5	7497.6
37.5°	12449.6	12382.4	12268.8	11809.3	10807.5	9986.5	9599.2	9356.5	9299.7	8664.6	7740.3
40°	13317.1	13141.5	13048.6	12382.4	11225.8	10389.3	10053.6	9800.6	9738.7	9005.4	7936.5
42.5°	14055.5	13926.4	13812.8	12893.6	11623.4	10735.2	10482.2	10249.9	10167.2	9341.1	8148.2
45°	14179.4	14231.0	14174.2	13146.7	12253.4	11076.0	10916.0	10766.2	10688.8	9795.5	8468.4
47.5°	14184.6	14184.6	13848.9	13291.2	13033.1	11458.1	11380.7	11432.3	11349.7	10373.8	8850.5
50°	13812.8	13879.9	13704.3	13327.4	13239.6	11840.3	11948.7	12227.5	12144.9	10988.3	9263.6
52.5°	13043.4	13265.4	13260.3	13270.6	12940.1	12165.6	12547.7	13182.8	13043.4	11680.2	9702.5
55°	11685.3	12129.4	12527.0	12867.8	12681.9	12361.8	13280.9	14200.0	14055.5	12454.7	10146.6
57.5°	10523.5	10807.5	11303.2	12268.8	12377.3	12532.2	13967.7	15263.8	15134.7	13311.9	10611.3
60°	9196.5	9588.9	10084.6	11458.1	12005.5	12754.2	14721.6	16301.7	16177.7	14179.4	11060.5
62.5°	7156.8	7662.9	8654.3	10213.7	11463.3	12893.6	15315.4	17215.6	17158.8	15000.4	11463.3
65°	4988.1	5437.3	6826.4	8685.3	10601.0	12831.7	15790.5	18031.5	17979.8	15671.7	11747.3
67.5°	2912.3	3433.8	5003.6	6991.6	9077.7	12403.1	15945.4	18511.7	18511.7	16079.6	11824.8
70°	1662.7	1905.4	3299.6	5096.5	6960.6	11220.6	15511.6	18506.5	18594.3	15986.7	11504.6
72.5°	1161.8	1270.3	2220.4	3428.7	4719.6	9077.7	14375.6	17613.2	17732.0	15108.9	10409.9
75°	903.6	981.1	1564.6	2339.1	2974.3	6165.4	11891.9	14850.7	15165.7	12878.2	8416.8
77.5°	686.8	743.6	914.0	1461.3	1905.4	3542.3	7848.8	9738.7	9759.3	7884.9	4513.0
80°	500.9	557.7	609.3	893.3	1012.1	1657.5	2963.9	4069.0	3955.4	3815.9	2442.4
82.5°	299.5	356.3	371.8	485.4	495.7	707.4	1037.9	1311.6	1259.9	1678.2	1146.3
85°	129.1	180.7	191.1	222.0	211.7	289.2	413.1	346.0	309.8	356.3	247.9
87.5°	31.0	51.6	51.6	56.8	46.5	72.3	77.5	56.8	51.6	62.0	62.0
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°	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3	6320.3
2.5°	6284.2	6268.7	6273.8	6186.1	6160.2	6134.4	6118.9	6108.6	6098.3	6113.8	6129.3
5°	6330.6	6294.5	6253.2	6124.1	6072.5	6015.7	5974.3	5938.2	5922.7	5922.7	5938.2
7.5°	6366.8	6304.8	6217.0	6046.6	5953.7	5876.2	5809.1	5762.6	5736.8	5736.8	5752.3
10°	6371.9	6284.2	6144.7	5938.2	5814.3	5700.7	5623.2	5571.6	5535.4	5535.4	5545.8
12.5°	6402.9	6284.2	6103.4	5855.6	5700.7	5561.3	5468.3	5390.9	5375.4	5375.4	5385.7
15°	6454.6	6310.0	6077.6	5783.3	5597.4	5437.3	5334.1	5251.4	5220.5	5241.1	5246.3
17.5°	6501.0	6325.5	6031.1	5690.3	5468.3	5292.7	5179.1	5106.9	5065.5	5112.0	5112.0
20°	6532.0	6325.5	5964.0	5571.6	5328.9	5132.7	5024.2	4936.5	4905.5	4962.3	4967.4
22.5°	6578.5	6320.3	5891.7	5452.8	5179.1	4972.6	4864.2	4797.0	4781.5	4843.5	4864.2
25°	6630.1	6330.6	5814.3	5318.6	5013.9	4812.5	4729.9	4698.9	4709.3	4786.7	4812.5
27.5°	6686.9	6351.3	5736.8	5168.8	4833.2	4652.5	4606.0	4621.5	4662.8	4760.9	4791.9
30°	6738.6	6356.5	5628.4	4993.3	4626.6	4456.2	4476.9	4544.0	4606.0	4704.1	4740.2
32.5°	6805.7	6361.6	5514.8	4802.2	4404.6	4280.7	4373.6	4482.1	4544.0	4637.0	4678.3
35°	6970.9	6449.4	5427.0	4616.3	4198.1	4130.9	4285.8	4425.3	4461.4	4544.0	4580.2
37.5°	7162.0	6594.0	5380.5	4425.3	3996.7	3981.2	4177.4	4316.8	4327.1	4378.8	4414.9
40°	7280.8	6656.0	5328.9	4265.2	3815.9	3826.3	4027.7	4136.1	4115.4	4151.6	4177.4
42.5°	7399.5	6676.6	5220.5	4130.9	3645.5	3655.9	3810.8	3888.2	3898.6	3976.0	4012.2
45°	7600.9	6733.4	5101.7	4007.0	3490.6	3454.5	3547.4	3650.7	3785.0	3934.7	3976.0
47.5°	7869.4	6852.2	4977.8	3857.2	3340.9	3222.1	3258.3	3439.0	3578.4	3717.8	3743.6
50°	8143.1	6970.9	4864.2	3676.5	3191.1	2974.3	2989.8	3155.0	3268.6	3377.0	3392.5
52.5°	8411.6	7074.2	4766.1	3506.1	3020.7	2679.9	2741.9	2912.3	2989.8	3041.4	3056.9
55°	8680.1	7162.0	4678.3	3361.5	2824.5	2447.6	2504.4	2664.4	2741.9	2767.7	2778.0
57.5°	8958.9	7265.3	4611.1	3237.6	2602.5	2241.0	2277.2	2390.8	2463.1	2494.0	2483.7
60°	9191.3	7353.0	4575.0	3108.5	2380.4	2050.0	2039.6	2142.9	2246.2	2277.2	2266.8
62.5°	9372.0	7409.8	4518.2	2943.3	2184.2	1858.9	1807.3	1941.5	2050.0	2070.6	2086.1
65°	9470.1	7415.0	4378.8	2731.6	1982.8	1652.4	1616.2	1750.5	1817.6	1838.3	1838.3
67.5°	9454.7	7332.4	4105.1	2447.6	1797.0	1466.5	1435.5	1518.1	1616.2	1631.7	1616.2
70°	9134.5	6991.6	3666.2	2148.1	1574.9	1301.2	1244.4	1327.1	1420.0	1363.2	1337.4
72.5°	8225.7	6108.6	3020.7	1817.6	1327.1	1094.7	1068.9	1151.5	1156.7	1167.0	1141.2
75°	6490.7	4549.2	2261.7	1414.8	1074.0	919.1	914.0	898.5	919.1	960.4	929.5
77.5°	3408.0	2272.0	1223.8	867.5	779.7	738.4	702.3	697.1	759.1	784.9	753.9
80°	1848.6	1275.4	702.3	521.5	475.1	480.2	526.7	516.4	583.5	599.0	573.2
82.5°	805.5	604.1	346.0	315.0	315.0	309.8	325.3	361.5	433.7	433.7	346.0
85°	175.6	149.7	134.3	154.9	175.6	175.6	175.6	175.6	123.9	67.1	46.5
87.5°	56.8	56.8	56.8	62.0	67.1	67.1	56.8	41.3	25.8	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)