

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: P841598

Luminaire Tested: **ARCH4-200-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31370 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 203.7
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

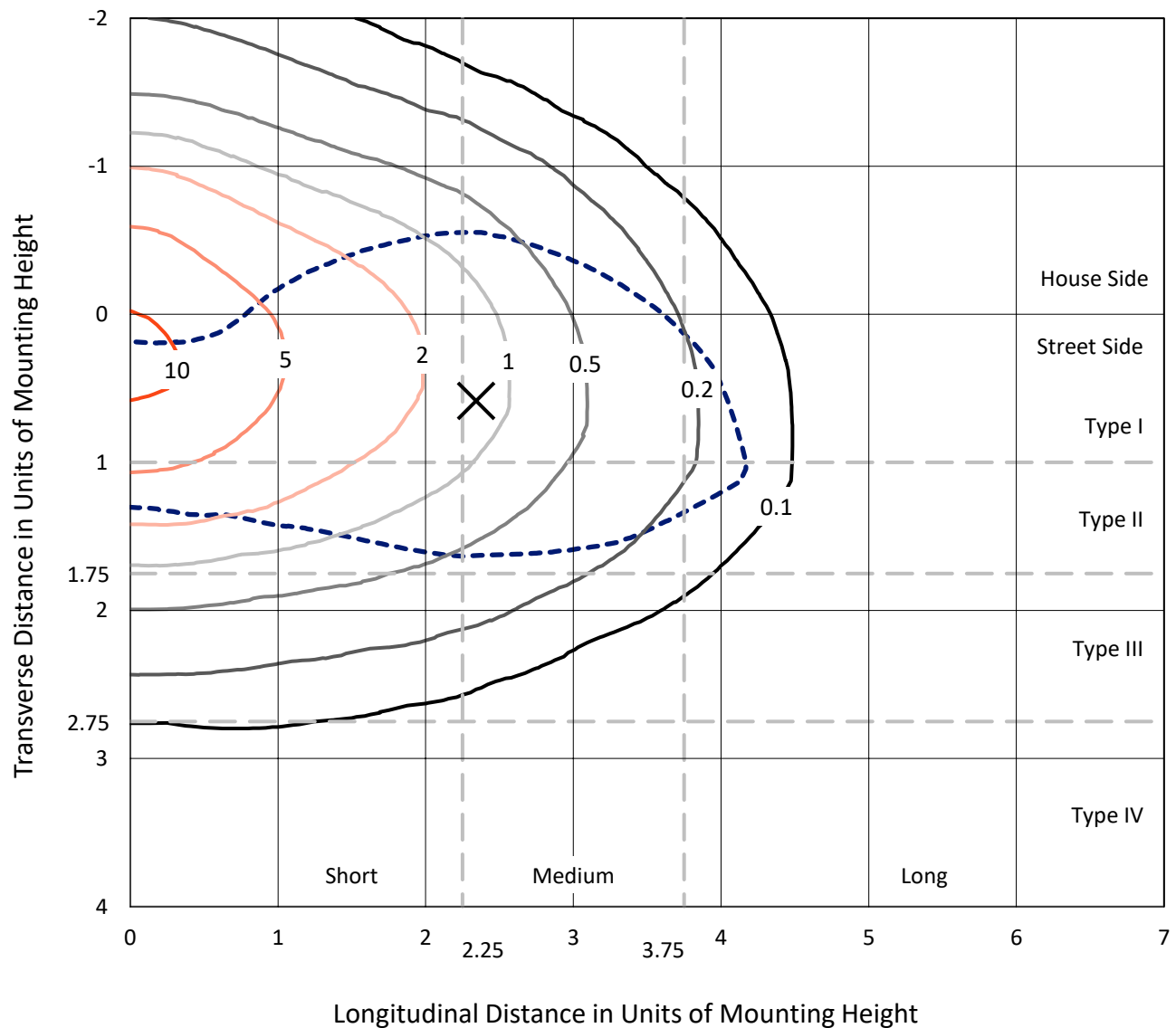


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Iso-Footcandle Lines of Horizontal Illumination

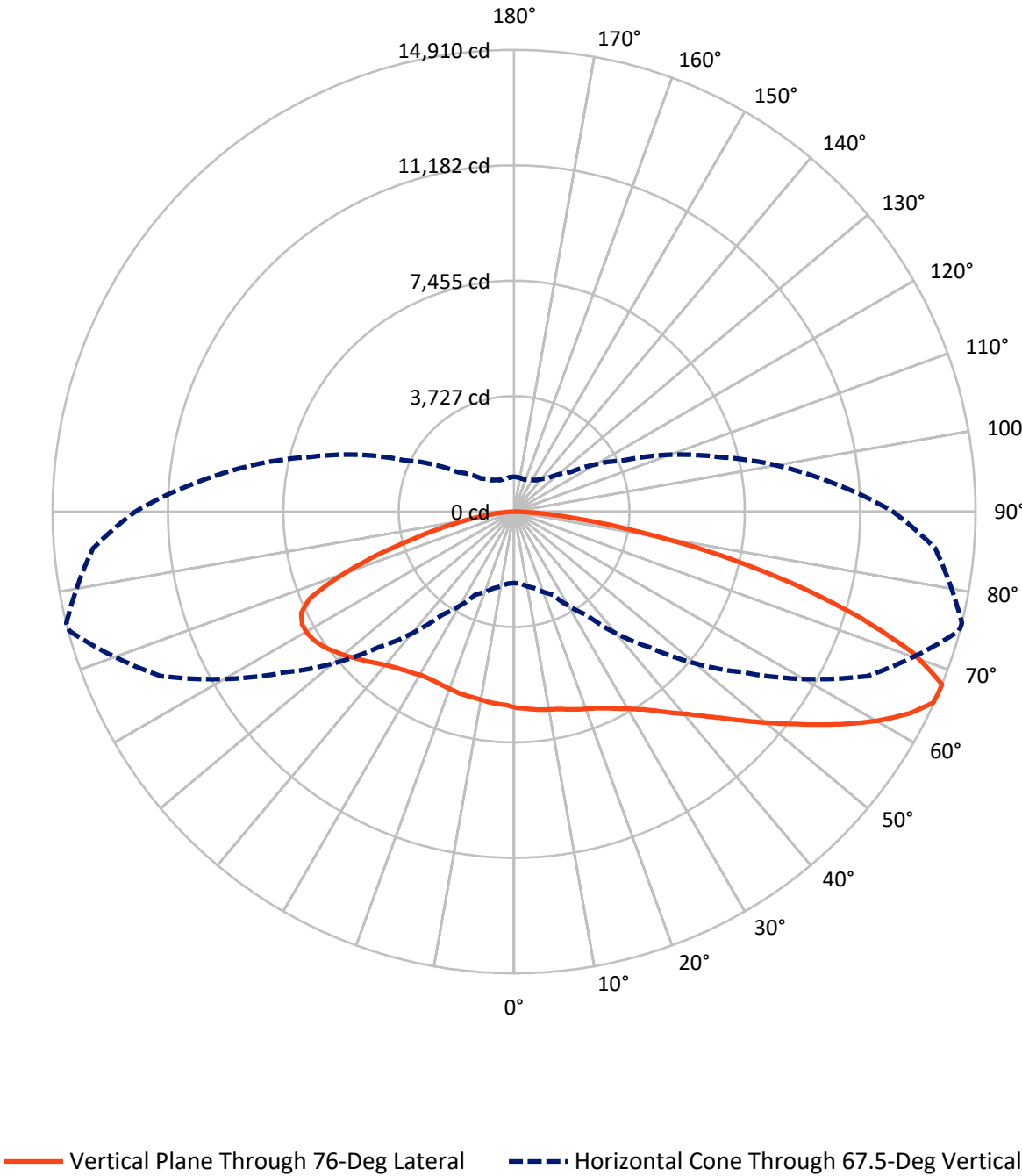
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10600.1	0.0	10600.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	20769.9	0.0	20769.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	31370.0	0.0	31370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.0	1.9
10°-20°	1868.0	6.0
20°-30°	3173.8	10.1
30°-40°	4516.0	14.4
40°-50°	5703.5	18.2
50°-60°	6175.1	19.7
60°-70°	5743.5	18.3
70°-80°	3084.8	9.8
80°-90°	494.3	1.6
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°	31370.0	100.0
0°-180°	31370.0	100.0

Coefficient of Utilization



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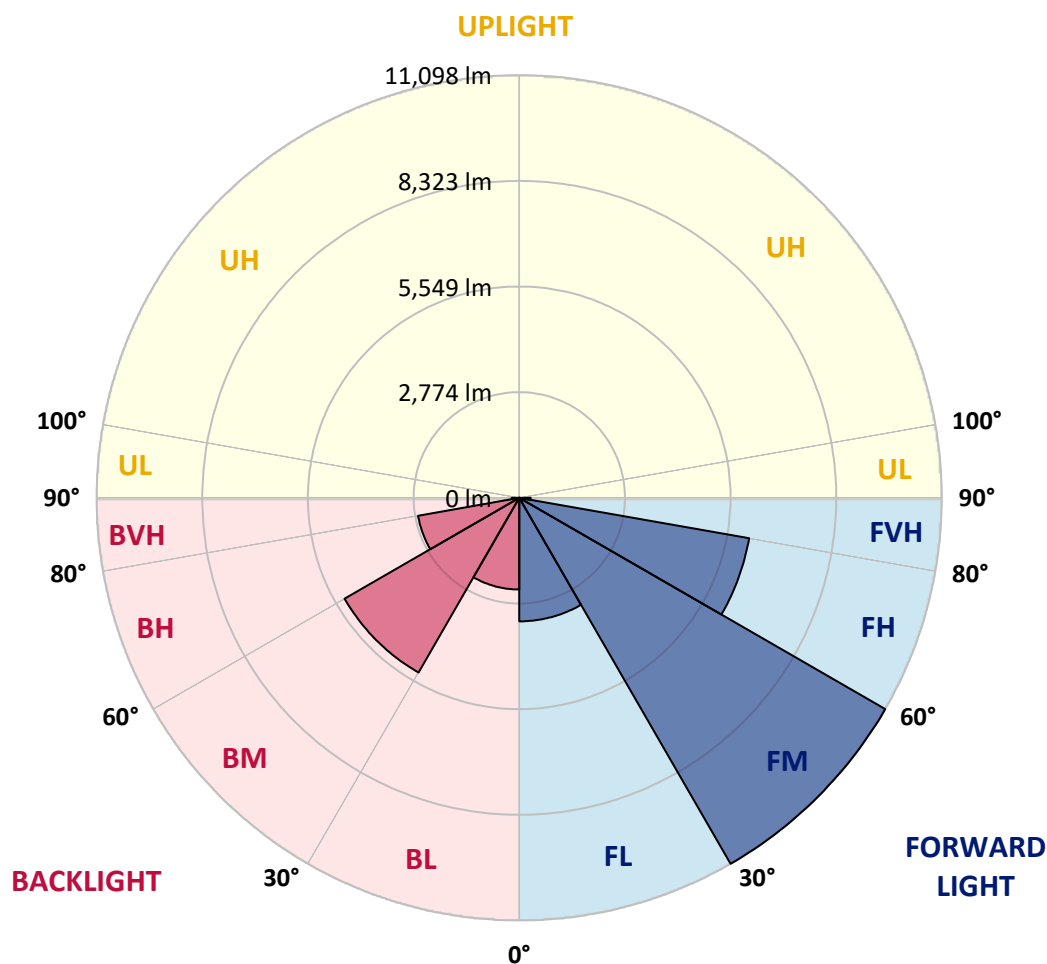
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3244.0	10.3			
FM	(30°-60°)	11097.5	35.4			
FH	(60°-80°)	6129.4	19.5			G3/7500
FVH	(80°-90°)	299.0	1.0			G3/500
BL	(0°-30°)	2408.9	7.7	B3/2500		
BM	(30°-60°)	5297.0	16.9	B4/8500		
BH	(60°-80°)	2698.9	8.6	B4/5000		G4/5000
BVH	(80°-90°)	195.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7
2.5°	6528.9	6517.2	6470.6	6476.5	6476.5	6470.6	6400.7	6371.6	6371.6	6365.8	6301.7
5°	6761.8	6744.4	6691.9	6680.3	6657.0	6627.9	6517.2	6453.2	6424.0	6418.2	6330.8
7.5°	7035.6	7012.3	6948.2	6913.3	6855.0	6779.3	6639.5	6540.5	6470.6	6464.8	6342.5
10°	7309.3	7286.0	7210.3	7146.2	7064.7	6942.4	6761.8	6616.2	6505.6	6493.9	6348.3
12.5°	7635.5	7612.2	7519.0	7437.4	7315.1	7152.1	6913.3	6715.2	6563.8	6546.3	6365.8
15°	7979.1	7944.1	7850.9	7757.8	7606.3	7396.7	7111.3	6849.2	6657.0	6627.9	6418.2
17.5°	8264.5	8217.9	8142.2	8049.0	7880.1	7635.5	7309.3	6983.2	6744.4	6721.1	6470.6
20°	8509.1	8474.1	8392.6	8305.2	8124.7	7856.8	7495.7	7117.1	6825.9	6796.8	6511.4
22.5°	8742.0	8695.4	8648.9	8584.8	8386.8	8089.7	7711.2	7280.2	6930.7	6895.8	6563.8
25°	9010.0	8957.5	8940.1	8905.1	8672.2	8369.3	7973.3	7484.0	7076.3	7035.6	6657.0
27.5°	9341.9	9283.7	9248.7	9248.7	8969.2	8654.7	8252.8	7722.8	7245.2	7210.3	6773.5
30°	9691.4	9621.5	9569.1	9569.1	9254.6	8940.1	8526.5	7961.6	7437.4	7396.7	6924.9
32.5°	10000.1	9930.2	9871.9	9866.1	9540.0	9225.4	8811.9	8223.7	7670.4	7618.0	7111.3
35°	10238.8	10174.8	10122.4	10134.0	9825.3	9516.7	9132.3	8573.1	7961.6	7903.4	7355.9
37.5°	10384.5	10361.2	10332.0	10372.8	10087.4	9796.2	9464.2	8910.9	8293.6	8241.2	7658.8
40°	10460.2	10442.7	10559.2	10611.6	10308.7	10046.7	9796.2	9260.4	8654.7	8596.4	8008.2
42.5°	10570.8	10716.4	10763.0	10751.4	10471.8	10238.8	10099.1	9639.0	9079.8	9027.4	8427.5
45°	10174.8	10139.8	10396.1	10535.9	10483.5	10361.2	10384.5	10093.2	9574.9	9522.5	8910.9
47.5°	9644.8	9598.2	9743.8	10087.4	10291.3	10407.7	10640.7	10565.0	10145.7	10099.1	9475.9
50°	8526.5	8590.6	9132.3	9592.4	9994.2	10396.1	10856.2	11071.7	10774.7	10728.1	10081.6
52.5°	7286.0	7350.1	7915.0	8975.0	9633.1	10308.7	11013.5	11578.4	11456.1	11403.7	10728.1
55°	6383.3	6523.0	7163.7	7932.5	9120.6	10035.0	11106.6	12096.8	12189.9	12143.3	11432.8
57.5°	5486.3	5591.2	6074.6	6756.0	8421.7	9557.4	11100.8	12580.2	12958.7	12912.1	12149.2
60°	4432.2	4566.1	4950.5	5684.4	7489.9	8986.7	10937.7	12958.7	13698.4	13663.4	12842.2
62.5°	3710.0	3750.7	4024.5	4659.3	6290.1	8264.5	10570.8	13162.6	14368.2	14344.9	13465.4
65°	2987.8	2993.6	3244.0	3774.0	5131.1	7367.5	9947.6	13086.9	14874.9	14886.5	13913.9
67.5°	2306.4	2335.5	2562.6	2964.5	4076.9	6202.7	9056.5	12574.3	14880.7	14909.8	13657.6
70°	1595.8	1619.1	1962.7	2353.0	3150.9	4944.7	7850.9	11217.3	13657.6	13680.9	12242.4
72.5°	1124.1	1135.7	1502.6	1881.2	2463.6	3727.5	5923.2	9277.9	11642.5	11659.9	10297.1
75°	838.7	850.3	1060.0	1426.9	1887.0	2580.1	4047.8	7105.5	9301.2	9301.2	8130.5
77.5°	594.1	599.9	687.2	984.3	1258.0	1741.4	2434.5	4653.5	6825.9	6837.5	5923.2
80°	401.9	407.7	448.5	664.0	786.3	943.5	1322.1	2440.3	4304.0	4321.5	3762.4
82.5°	209.7	221.3	250.4	337.8	396.0	524.2	681.4	1240.5	2382.1	2428.7	2259.8
85°	81.5	81.5	93.2	110.7	145.6	203.8	314.5	471.8	1077.5	1112.4	995.9
87.5°	29.1	29.1	34.9	34.9	40.8	46.6	52.4	69.9	122.3	122.3	116.5
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°	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7	6336.7
2.5°	6278.4	6278.4	6249.3	6261.0	6255.1	6243.5	6231.8	6249.3	6231.8	6191.1	6185.2
5°	6290.1	6278.4	6231.8	6226.0	6208.5	6185.2	6156.1	6167.8	6138.6	6103.7	6097.9
7.5°	6295.9	6272.6	6208.5	6185.2	6150.3	6103.7	6057.1	6057.1	6016.3	5981.4	5975.6
10°	6284.3	6255.1	6167.8	6121.2	6057.1	5987.2	5923.2	5905.7	5859.1	5818.3	5818.3
12.5°	6290.1	6249.3	6138.6	6062.9	5975.6	5888.2	5806.7	5783.4	5742.6	5701.8	5696.0
15°	6325.0	6266.8	6127.0	6028.0	5899.9	5800.8	5713.5	5696.0	5661.1	5631.9	5631.9
17.5°	6360.0	6284.3	6109.5	5969.7	5812.5	5701.8	5620.3	5620.3	5597.0	5579.5	5579.5
20°	6377.4	6290.1	6074.6	5888.2	5707.7	5591.2	5515.5	5527.1	5521.3	5515.5	5515.5
22.5°	6418.2	6301.7	6045.5	5812.5	5597.0	5474.7	5404.8	5422.3	5416.5	5416.5	5422.3
25°	6482.3	6330.8	6022.2	5742.6	5492.2	5358.2	5282.5	5294.1	5294.1	5294.1	5294.1
27.5°	6569.6	6389.1	6016.3	5678.5	5387.3	5235.9	5142.7	5142.7	5119.4	5125.2	5131.1
30°	6703.6	6499.7	6028.0	5620.3	5276.7	5084.5	4973.8	4956.3	4950.5	4962.2	4968.0
32.5°	6866.7	6651.2	6097.9	5579.5	5160.2	4915.6	4775.8	4770.0	4752.5	4752.5	4752.5
35°	7070.5	6796.8	6161.9	5573.7	5043.7	4735.0	4583.6	4566.1	4525.4	4507.9	4507.9
37.5°	7332.6	7023.9	6237.7	5532.9	4944.7	4560.3	4379.8	4321.5	4274.9	4269.1	4269.1
40°	7652.9	7280.2	6348.3	5486.3	4839.9	4379.8	4141.0	4042.0	4047.8	4071.1	4071.1
42.5°	8031.5	7594.7	6488.1	5463.0	4688.4	4193.4	3861.4	3744.9	3785.7	3809.0	3814.8
45°	8474.1	7967.4	6645.4	5433.9	4548.7	3983.7	3564.4	3418.8	3436.2	3442.1	3447.9
47.5°	8986.7	8380.9	6808.4	5410.6	4391.4	3721.6	3238.2	3046.0	3040.2	3005.3	3016.9
50°	9522.5	8817.8	6977.3	5369.9	4199.2	3412.9	2894.6	2667.5	2620.9	2568.4	2574.3
52.5°	10093.2	9266.2	7134.6	5305.8	3960.4	3098.4	2568.4	2323.8	2230.6	2172.4	2184.1
55°	10722.3	9726.3	7286.0	5206.8	3710.0	2783.9	2277.2	2026.8	1910.3	1863.7	1869.6
57.5°	11298.8	10169.0	7396.7	5084.5	3436.2	2498.6	2021.0	1776.4	1700.7	1694.8	1700.7
60°	11858.0	10541.7	7443.3	4915.6	3156.7	2236.5	1782.2	1595.8	1543.4	1572.5	1578.3
62.5°	12329.7	10780.5	7420.0	4688.4	2871.3	1986.0	1590.0	1456.0	1421.1	1479.3	1485.2
65°	12603.5	10856.2	7256.9	4362.3	2562.6	1741.4	1409.4	1263.8	1246.4	1281.3	1298.8
67.5°	12242.4	10384.5	6814.3	3913.8	2219.0	1514.3	1234.7	1118.2	1089.1	1118.2	1118.2
70°	10850.4	8998.3	5765.9	3203.3	1840.4	1293.0	1071.6	990.1	966.8	990.1	984.3
72.5°	9039.1	7484.0	4542.8	2498.6	1450.2	1089.1	931.9	856.1	832.9	809.6	797.9
75°	7012.3	5684.4	3296.5	1834.6	1094.9	873.6	780.4	710.5	652.3	675.6	664.0
77.5°	5136.9	3989.5	2335.5	1269.7	786.3	675.6	611.5	559.1	518.3	564.9	559.1
80°	3308.1	2580.1	1560.9	850.3	541.6	471.8	448.5	419.3	460.1	599.9	611.5
82.5°	2021.0	1636.6	931.9	553.3	355.3	314.5	291.2	291.2	471.8	518.3	524.2
85°	902.7	867.8	506.7	285.4	198.0	180.5	163.1	209.7	192.2	139.8	145.6
87.5°	145.6	151.4	110.7	99.0	75.7	75.7	58.2	40.8	29.1	17.5	17.5
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)