

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: P842012

Luminaire Tested: **ARCH4-260-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842012
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: ARCH4-260-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33198 lumens
Efficiency: N/A
Efficacy: 128.1 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): 259.2
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



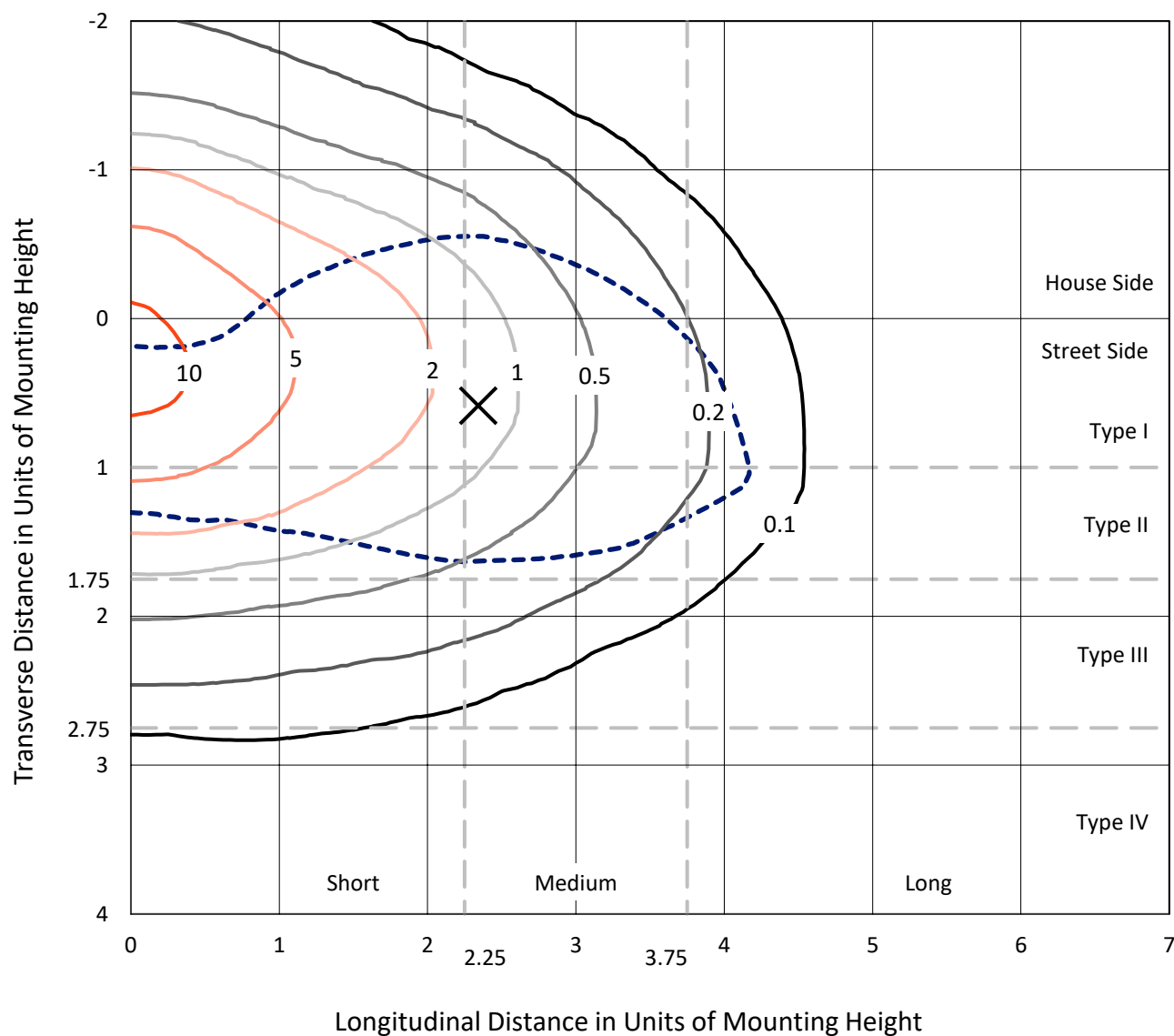
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

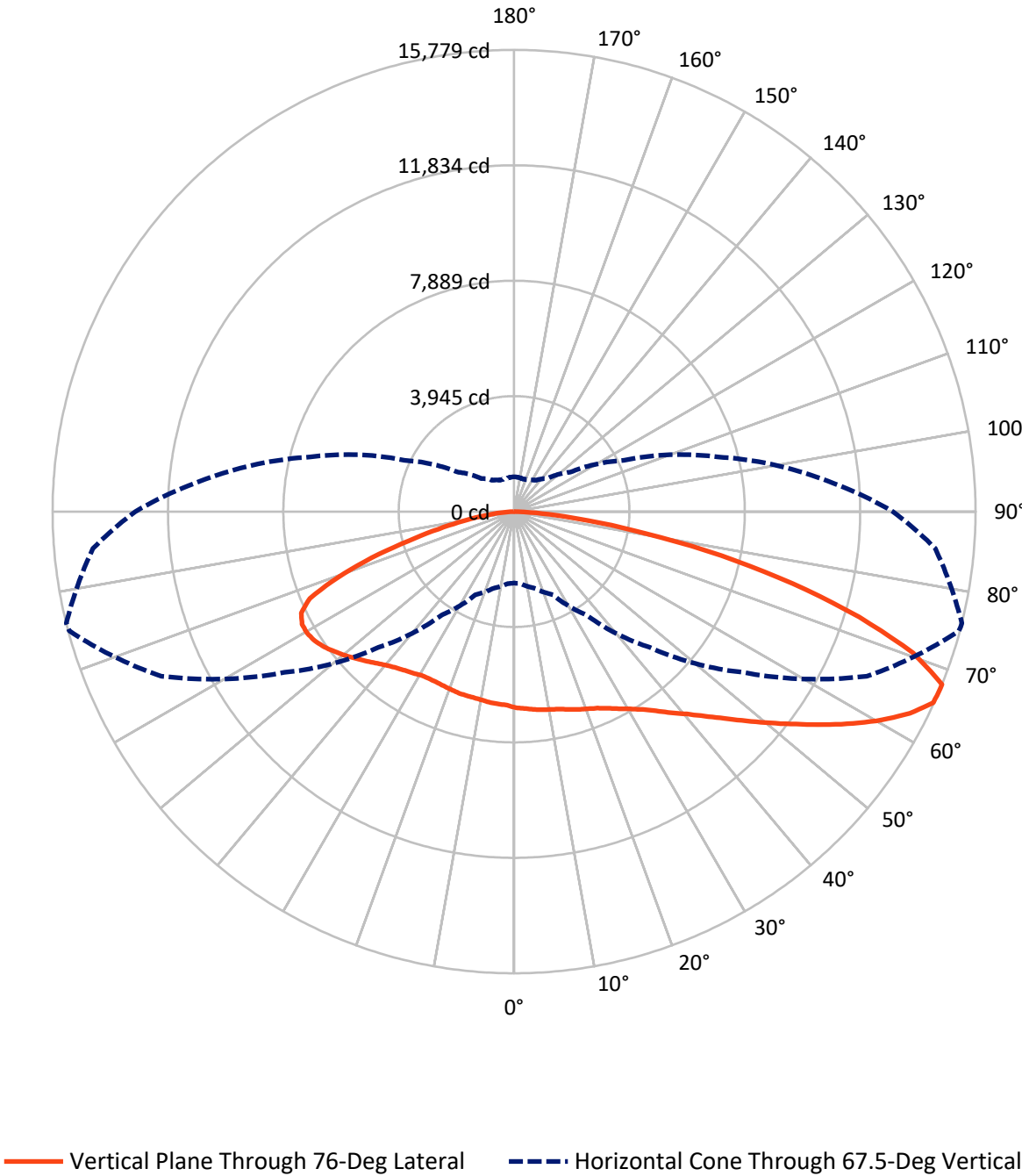
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	11217.8	0.0	11217.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	21980.2	0.0	21980.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	33198.0	0.0	33198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.6	1.9
10°-20°	1976.9	6.0
20°-30°	3358.8	10.1
30°-40°	4779.1	14.4
40°-50°	6035.8	18.2
50°-60°	6534.9	19.7
60°-70°	6078.2	18.3
70°-80°	3264.5	9.8
80°-90°	523.1	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°	33198.0	100.0
0°-180°	33198.0	100.0

Coefficient of Utilization



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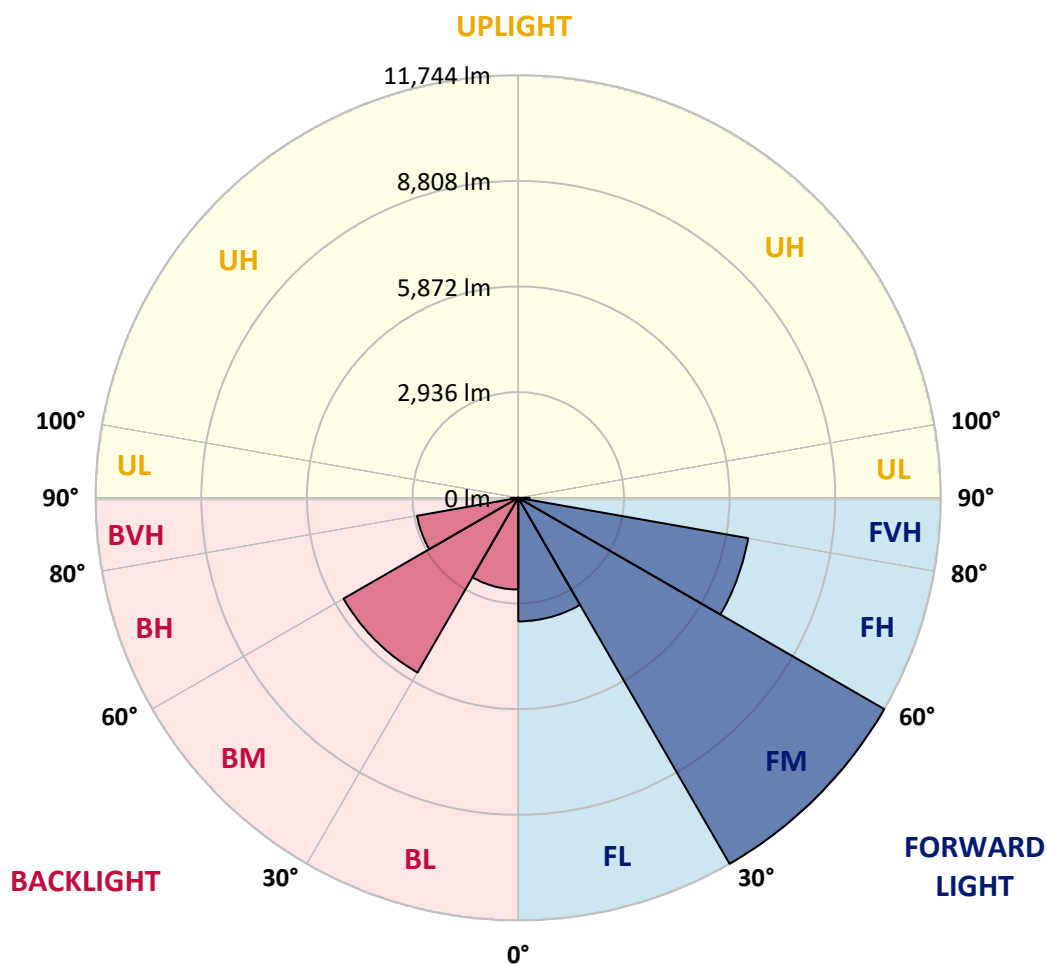
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3433.0	10.3			
FM	(30°-60°)	11744.2	35.4			
FH	(60°-80°)	6486.6	19.5			G3/7500
FVH	(80°-90°)	316.4	1.0			G3/500
BL	(0°-30°)	2549.3	7.7	B4/5000		
BM	(30°-60°)	5605.7	16.9	B4/8500		
BH	(60°-80°)	2856.2	8.6	B4/5000		G4/5000
BVH	(80°-90°)	206.7	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°	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9
2.5°	6909.3	6897.0	6847.7	6853.8	6853.8	6847.7	6773.7	6742.9	6742.9	6736.7	6668.9
5°	7155.9	7137.4	7081.9	7069.6	7044.9	7014.1	6897.0	6829.2	6798.4	6792.2	6699.8
7.5°	7445.5	7420.9	7353.1	7316.1	7254.5	7174.4	7026.4	6921.6	6847.7	6841.5	6712.1
10°	7735.2	7710.6	7630.5	7562.7	7476.4	7346.9	7155.9	7001.8	6884.7	6872.3	6718.2
12.5°	8080.4	8055.7	7957.1	7870.8	7741.4	7568.8	7316.1	7106.6	6946.3	6927.8	6736.7
15°	8444.0	8407.1	8308.4	8209.8	8049.6	7827.7	7525.7	7248.3	7044.9	7014.1	6792.2
17.5°	8746.1	8696.7	8616.6	8518.0	8339.3	8080.4	7735.2	7390.1	7137.4	7112.7	6847.7
20°	9004.9	8967.9	8881.6	8789.2	8598.1	8314.6	7932.5	7531.8	7223.7	7192.8	6890.8
22.5°	9251.5	9202.2	9152.8	9085.0	8875.5	8561.1	8160.5	7704.4	7334.6	7297.6	6946.3
25°	9535.0	9479.5	9461.0	9424.0	9177.5	8857.0	8437.9	7920.1	7488.7	7445.5	7044.9
27.5°	9886.3	9824.7	9787.7	9787.7	9491.8	9159.0	8733.7	8172.8	7667.4	7630.5	7168.2
30°	10256.1	10182.2	10126.7	10126.7	9793.9	9461.0	9023.4	8425.5	7870.8	7827.7	7328.4
32.5°	10582.8	10508.8	10447.2	10441.0	10095.9	9763.0	9325.4	8702.9	8117.4	8061.9	7525.7
35°	10835.5	10767.7	10712.2	10724.5	10397.9	10071.2	9664.4	9072.7	8425.5	8363.9	7784.5
37.5°	10989.6	10964.9	10934.1	10977.3	10675.2	10367.1	10015.7	9430.2	8776.9	8721.4	8105.0
40°	11069.7	11051.2	11174.5	11230.0	10909.5	10632.1	10367.1	9800.0	9159.0	9097.4	8474.9
42.5°	11186.8	11340.9	11390.2	11377.9	11082.0	10835.5	10687.6	10200.6	9608.9	9553.5	8918.6
45°	10767.7	10730.7	11001.9	11149.8	11094.4	10964.9	10989.6	10681.4	10132.8	10077.4	9430.2
47.5°	10206.8	10157.5	10311.6	10675.2	10891.0	11014.2	11260.8	11180.6	10736.9	10687.6	10028.1
50°	9023.4	9091.2	9664.4	10151.3	10576.6	11001.9	11488.8	11716.9	11402.5	11353.2	10669.1
52.5°	7710.6	7778.4	8376.2	9498.0	10194.5	10909.5	11655.2	12253.1	12123.7	12068.2	11353.2
55°	6755.2	6903.2	7581.1	8394.7	9652.1	10619.8	11753.9	12801.7	12900.3	12851.0	12099.0
57.5°	5806.0	5917.0	6428.6	7149.7	8912.5	10114.4	11747.7	13313.2	13713.9	13664.6	12857.1
60°	4690.4	4832.2	5239.0	6015.6	7926.3	9510.3	11575.1	13713.9	14496.6	14459.6	13590.6
62.5°	3926.2	3969.3	4259.0	4930.8	6656.6	8746.1	11186.8	13929.6	15205.4	15180.8	14250.1
65°	3161.9	3168.1	3433.1	3994.0	5430.1	7796.9	10527.3	13849.5	15741.7	15754.0	14724.7
67.5°	2440.8	2471.6	2712.0	3137.2	4314.5	6564.2	9584.3	13307.1	15747.8	15778.6	14453.5
70°	1688.8	1713.5	2077.1	2490.1	3334.5	5232.8	8308.4	11871.0	14453.5	14478.1	12955.7
72.5°	1189.6	1201.9	1590.2	1990.8	2607.2	3944.7	6268.3	9818.5	12320.9	12339.4	10897.1
75°	887.5	899.9	1121.8	1510.1	1997.0	2730.4	4283.7	7519.5	9843.2	9843.2	8604.3
77.5°	628.7	634.8	727.3	1041.6	1331.3	1842.9	2576.4	4924.7	7223.7	7236.0	6268.3
80°	425.3	431.4	474.6	702.6	832.1	998.5	1399.1	2582.5	4554.9	4573.3	3981.6
82.5°	221.9	234.2	265.0	357.5	419.1	554.7	721.1	1312.8	2520.9	2570.2	2391.5
85°	86.3	86.3	98.6	117.1	154.1	215.7	332.8	499.2	1140.3	1177.2	1054.0
87.5°	30.8	30.8	37.0	37.0	43.1	49.3	55.5	74.0	129.4	129.4	123.3
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°	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9	6705.9
2.5°	6644.3	6644.3	6613.5	6625.8	6619.6	6607.3	6595.0	6613.5	6595.0	6551.8	6545.7
5°	6656.6	6644.3	6595.0	6588.8	6570.3	6545.7	6514.9	6527.2	6496.4	6459.4	6453.2
7.5°	6662.8	6638.1	6570.3	6545.7	6508.7	6459.4	6410.1	6410.1	6366.9	6329.9	6323.8
10°	6650.5	6619.6	6527.2	6477.9	6410.1	6336.1	6268.3	6249.8	6200.5	6157.4	6157.4
12.5°	6656.6	6613.5	6496.4	6416.2	6323.8	6231.3	6145.0	6120.4	6077.2	6034.1	6027.9
15°	6693.6	6632.0	6484.0	6379.3	6243.7	6138.9	6046.4	6027.9	5991.0	5960.1	5960.1
17.5°	6730.6	6650.5	6465.5	6317.6	6151.2	6034.1	5947.8	5947.8	5923.2	5904.7	5904.7
20°	6749.1	6656.6	6428.6	6231.3	6040.3	5917.0	5836.9	5849.2	5843.0	5836.9	5836.9
22.5°	6792.2	6668.9	6397.7	6151.2	5923.2	5793.7	5719.8	5738.2	5732.1	5732.1	5738.2
25°	6860.0	6699.8	6373.1	6077.2	5812.2	5670.4	5590.3	5602.7	5602.7	5602.7	5602.7
27.5°	6952.5	6761.4	6366.9	6009.4	5701.3	5541.0	5442.4	5442.4	5417.7	5423.9	5430.1
30°	7094.2	6878.5	6379.3	5947.8	5584.2	5380.8	5263.7	5245.2	5239.0	5251.3	5257.5
32.5°	7266.8	7038.8	6453.2	5904.7	5460.9	5202.0	5054.1	5047.9	5029.4	5029.4	5029.4
35°	7482.5	7192.8	6521.0	5898.5	5337.6	5011.0	4850.7	4832.2	4789.1	4770.6	4770.6
37.5°	7759.9	7433.2	6601.1	5855.4	5232.8	4826.0	4635.0	4573.3	4524.0	4517.9	4517.9
40°	8098.9	7704.4	6718.2	5806.0	5121.9	4635.0	4382.3	4277.5	4283.7	4308.3	4308.3
42.5°	8499.5	8037.2	6866.2	5781.4	4961.6	4437.7	4086.4	3963.2	4006.3	4030.9	4037.1
45°	8967.9	8431.7	7032.6	5750.6	4813.7	4215.9	3772.1	3618.0	3636.5	3642.6	3648.8
47.5°	9510.3	8869.3	7205.2	5725.9	4647.3	3938.5	3426.9	3223.5	3217.4	3180.4	3192.7
50°	10077.4	9331.6	7383.9	5682.8	4443.9	3611.8	3063.3	2822.9	2773.6	2718.1	2724.3
52.5°	10681.4	9806.2	7550.3	5615.0	4191.2	3279.0	2718.1	2459.2	2360.6	2299.0	2311.3
55°	11347.1	10293.1	7710.6	5510.2	3926.2	2946.2	2409.9	2144.9	2021.6	1972.3	1978.5
57.5°	11957.3	10761.5	7827.7	5380.8	3636.5	2644.2	2138.7	1879.9	1799.8	1793.6	1799.8
60°	12549.0	11156.0	7877.0	5202.0	3340.6	2366.8	1886.0	1688.8	1633.3	1664.2	1670.3
62.5°	13048.2	11408.7	7852.3	4961.6	3038.6	2101.8	1682.6	1540.9	1503.9	1565.5	1571.7
65°	13337.9	11488.8	7679.8	4616.5	2712.0	1842.9	1491.6	1337.5	1319.0	1356.0	1374.5
67.5°	12955.7	10989.6	7211.3	4141.9	2348.3	1602.5	1306.7	1183.4	1152.6	1183.4	1183.4
70°	11482.7	9522.7	6101.9	3389.9	1947.7	1368.3	1134.1	1047.8	1023.1	1047.8	1041.6
72.5°	9565.8	7920.1	4807.6	2644.2	1534.7	1152.6	986.2	906.0	881.4	856.7	844.4
75°	7420.9	6015.6	3488.6	1941.5	1158.7	924.5	825.9	752.0	690.3	715.0	702.6
77.5°	5436.2	4222.0	2471.6	1343.6	832.1	715.0	647.2	591.7	548.6	597.9	591.7
80°	3500.9	2730.4	1651.8	899.9	573.2	499.2	474.6	443.8	486.9	634.8	647.2
82.5°	2138.7	1732.0	986.2	585.5	376.0	332.8	308.2	308.2	499.2	548.6	554.7
85°	955.3	918.4	536.2	302.0	209.6	191.1	172.6	221.9	203.4	147.9	154.1
87.5°	154.1	160.3	117.1	104.8	80.1	80.1	61.6	43.1	30.8	18.5	18.5
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)