

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: P841510

Luminaire Tested: **ARCH4-190-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841510
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: ARCH4-190-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26126 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 190
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



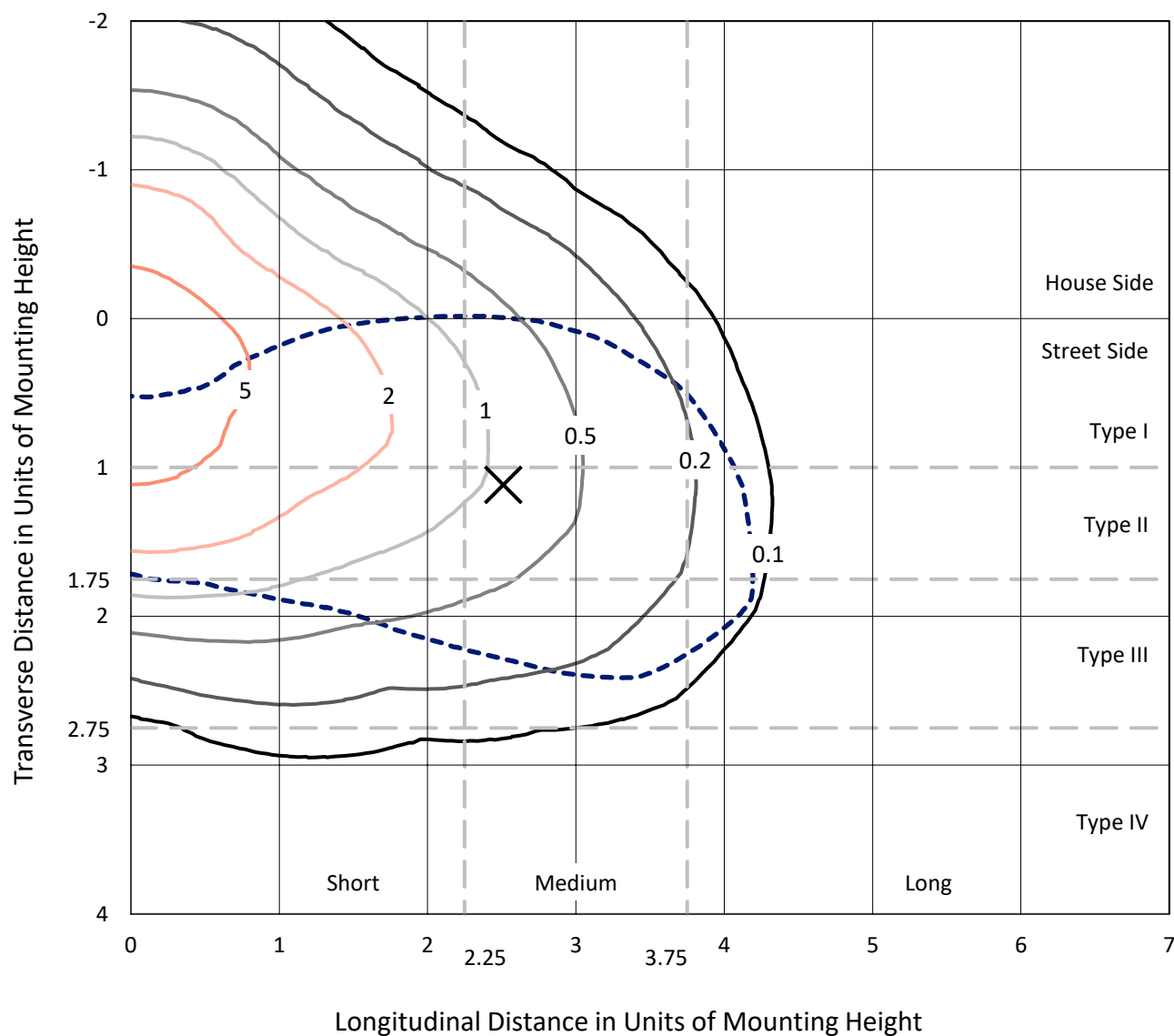
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

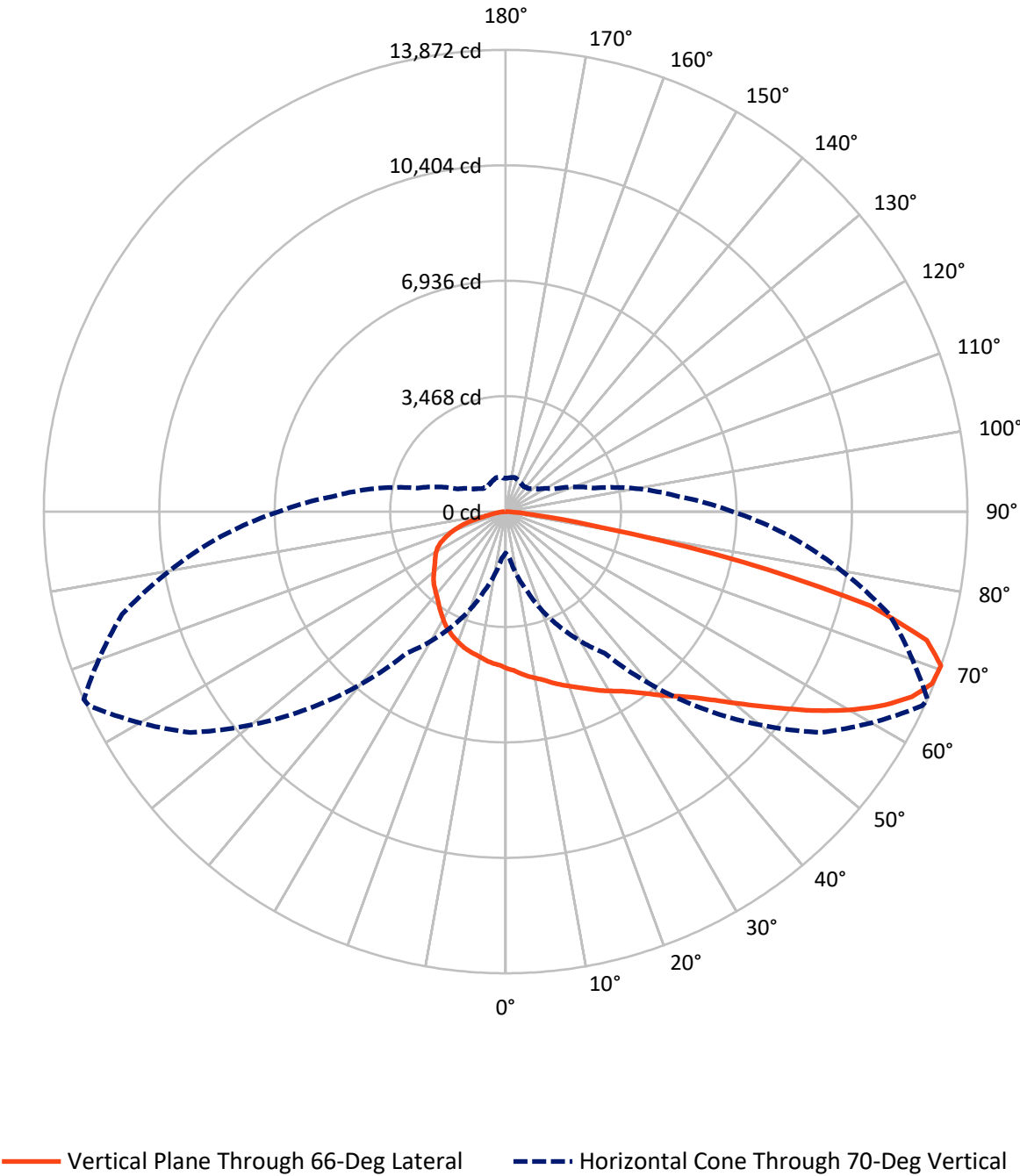
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	6922.8	0.0	6922.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	19203.2	0.0	19203.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	26126.0	0.0	26126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.1	1.7
10°-20°	1359.1	5.2
20°-30°	2278.2	8.7
30°-40°	3411.3	13.1
40°-50°	4560.9	17.5
50°-60°	5325.0	20.4
60°-70°	5294.9	20.3
70°-80°	3134.6	12.0
80°-90°	309.0	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°	26126.0	100.0
0°-180°	26126.0	100.0

Coefficient of Utilization



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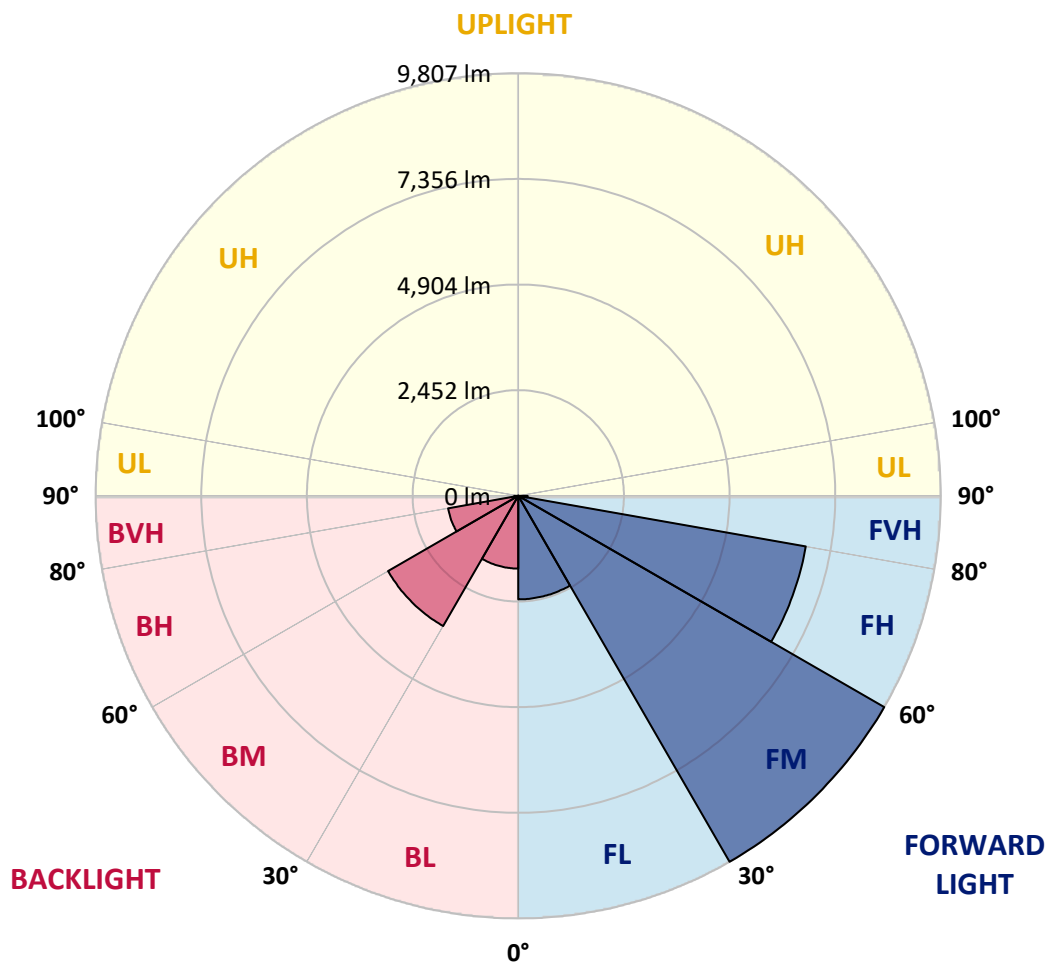
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2402.9	9.2			
FM	(30°-60°)	9807.3	37.5			
FH	(60°-80°)	6775.8	25.9			G3/7500
FVH	(80°-90°)	217.1	0.8			G2/225
BL	(0°-30°)	1687.5	6.5	B3/2500		
BM	(30°-60°)	3489.8	13.4	B3/5000		
BH	(60°-80°)	1653.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	91.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1
2.5°	4888.5	4880.8	4876.9	4861.5	4826.9	4842.3	4807.6	4784.5	4780.6	4726.7	4695.9
5°	5088.8	5085.0	5077.3	5054.1	5000.2	5007.9	4950.1	4907.8	4896.2	4811.5	4746.0
7.5°	5258.3	5250.6	5246.8	5215.9	5158.2	5154.3	5085.0	5023.3	5004.1	4888.5	4788.3
10°	5389.3	5377.7	5385.4	5354.6	5293.0	5281.4	5192.8	5111.9	5092.7	4946.3	4807.6
12.5°	5501.0	5493.3	5504.9	5477.9	5427.8	5416.3	5327.7	5223.6	5200.5	5031.0	4850.0
15°	5624.3	5597.3	5620.4	5608.9	5574.2	5570.3	5489.4	5373.9	5343.1	5138.9	4915.5
17.5°	5689.8	5674.4	5701.3	5705.2	5689.8	5716.7	5639.7	5501.0	5474.0	5239.1	4973.2
20°	5736.0	5712.9	5743.7	5766.8	5778.4	5832.3	5770.7	5635.8	5605.0	5335.4	5027.2
22.5°	5893.9	5843.9	5847.7	5863.1	5870.8	5947.9	5909.3	5778.4	5747.5	5454.8	5092.7
25°	6290.7	6190.6	6125.1	6078.8	6024.9	6090.4	6067.3	5940.2	5913.2	5597.3	5173.6
27.5°	6907.1	6780.0	6649.0	6514.1	6302.3	6275.3	6236.8	6121.2	6090.4	5739.8	5254.5
30°	7608.2	7481.1	7327.0	7111.2	6714.5	6506.4	6417.8	6290.7	6256.0	5867.0	5331.5
32.5°	8305.4	8193.7	8039.6	7777.7	7211.4	6787.7	6598.9	6467.9	6433.2	6005.7	5424.0
35°	8848.6	8779.3	8679.1	8351.7	7704.5	7118.9	6860.8	6702.9	6664.4	6225.2	5593.5
37.5°	9287.8	9237.7	9152.9	8810.1	8062.7	7450.2	7161.3	6980.3	6937.9	6464.1	5774.5
40°	9934.9	9804.0	9734.6	9237.7	8374.8	7750.7	7500.3	7311.6	7265.3	6718.3	5920.9
42.5°	10485.8	10389.5	10304.8	9619.1	8671.4	8008.8	7820.1	7646.7	7585.1	6968.7	6078.8
45°	10578.3	10616.8	10574.4	9807.8	9141.4	8263.1	8143.6	8031.9	7974.1	7307.7	6317.7
47.5°	10582.1	10582.1	10331.7	9915.7	9723.1	8548.1	8490.3	8528.9	8467.2	7739.2	6602.7
50°	10304.8	10354.8	10223.9	9942.6	9877.2	8833.2	8914.1	9122.1	9060.5	8197.6	6910.9
52.5°	9730.8	9896.4	9892.6	9900.3	9653.7	9075.9	9361.0	9834.8	9730.8	8713.8	7238.4
55°	8717.6	9048.9	9345.5	9599.8	9461.1	9222.3	9908.0	10593.7	10485.8	9291.6	7569.7
57.5°	7850.9	8062.7	8432.6	9152.9	9233.8	9349.4	10420.3	11387.2	11290.9	9931.1	7916.4
60°	6860.8	7153.6	7523.4	8548.1	8956.5	9515.0	10982.8	12161.5	12069.1	10578.3	8251.5
62.5°	5339.2	5716.7	6456.4	7619.7	8552.0	9619.1	11425.8	12843.4	12801.0	11190.8	8552.0
65°	3721.3	4056.4	5092.7	6479.5	7908.7	9572.8	11780.2	13452.0	13413.5	11691.6	8763.9
67.5°	2172.7	2561.7	3732.8	5215.9	6772.2	9253.1	11895.7	13810.3	13810.3	11995.9	8821.6
70°	1240.4	1421.5	2461.6	3802.2	5192.8	8370.9	11572.1	13806.4	13871.9	11926.6	8582.8
72.5°	866.8	947.7	1656.5	2557.9	3521.0	6772.2	10724.7	13140.0	13228.6	11271.7	7766.1
75°	674.1	731.9	1167.2	1745.1	2218.9	4599.6	8871.7	11079.1	11314.0	9607.5	6279.2
77.5°	512.3	554.7	681.8	1090.2	1421.5	2642.6	5855.4	7265.3	7280.7	5882.4	3366.9
80°	373.7	416.0	454.6	666.4	755.0	1236.6	2211.2	3035.6	2950.8	2846.8	1822.1
82.5°	223.4	265.8	277.4	362.1	369.8	527.8	774.3	978.5	939.9	1252.0	855.2
85°	96.3	134.8	142.5	165.6	157.9	215.7	308.2	258.1	231.1	265.8	184.9
87.5°	23.1	38.5	38.5	42.4	34.7	53.9	57.8	42.4	38.5	46.2	46.2
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°	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1	4715.1
2.5°	4688.2	4676.6	4680.5	4615.0	4595.7	4576.5	4564.9	4557.2	4549.5	4561.1	4572.6
5°	4722.9	4695.9	4665.1	4568.8	4530.2	4487.9	4457.0	4430.1	4418.5	4418.5	4430.1
7.5°	4749.8	4703.6	4638.1	4511.0	4441.6	4383.9	4333.8	4299.1	4279.8	4279.8	4291.4
10°	4753.7	4688.2	4584.2	4430.1	4337.6	4252.9	4195.1	4156.6	4129.6	4129.6	4137.3
12.5°	4776.8	4688.2	4553.4	4368.4	4252.9	4148.9	4079.5	4021.7	4010.2	4010.2	4017.9
15°	4815.3	4707.4	4534.1	4314.5	4175.8	4056.4	3979.4	3917.7	3894.6	3910.0	3913.9
17.5°	4850.0	4719.0	4499.4	4245.2	4079.5	3948.6	3863.8	3809.9	3779.1	3813.7	3813.7
20°	4873.1	4719.0	4449.3	4156.6	3975.5	3829.1	3748.2	3682.7	3659.6	3702.0	3705.9
22.5°	4907.8	4715.1	4395.4	4068.0	3863.8	3709.7	3628.8	3578.7	3567.2	3613.4	3628.8
25°	4946.3	4722.9	4337.6	3967.8	3740.5	3590.3	3528.7	3505.5	3513.2	3571.0	3590.3
27.5°	4988.7	4738.3	4279.8	3856.1	3605.7	3470.9	3436.2	3447.8	3478.6	3551.8	3574.9
30°	5027.2	4742.1	4198.9	3725.1	3451.6	3324.5	3339.9	3390.0	3436.2	3509.4	3536.4
32.5°	5077.3	4746.0	4114.2	3582.6	3286.0	3193.5	3262.9	3343.7	3390.0	3459.3	3490.1
35°	5200.5	4811.5	4048.7	3443.9	3131.9	3081.8	3197.4	3301.4	3328.3	3390.0	3416.9
37.5°	5343.1	4919.3	4014.0	3301.4	2981.6	2970.1	3116.5	3220.5	3228.2	3266.7	3293.7
40°	5431.7	4965.5	3975.5	3182.0	2846.8	2854.5	3004.8	3085.6	3070.2	3097.2	3116.5
42.5°	5520.3	4981.0	3894.6	3081.8	2719.7	2727.4	2843.0	2900.7	2908.4	2966.2	2993.2
45°	5670.5	5023.3	3806.0	2989.3	2604.1	2577.2	2646.5	2723.5	2823.7	2935.4	2966.2
47.5°	5870.8	5111.9	3713.6	2877.6	2492.4	2403.8	2430.8	2565.6	2669.6	2773.6	2792.9
50°	6075.0	5200.5	3628.8	2742.8	2380.7	2218.9	2230.4	2353.7	2438.5	2519.4	2530.9
52.5°	6275.3	5277.6	3555.6	2615.7	2253.6	1999.3	2045.5	2172.7	2230.4	2269.0	2280.5
55°	6475.6	5343.1	3490.1	2507.8	2107.2	1826.0	1868.3	1987.8	2045.5	2064.8	2072.5
57.5°	6683.6	5420.1	3440.1	2415.4	1941.5	1671.9	1698.8	1783.6	1837.5	1860.6	1852.9
60°	6857.0	5485.6	3413.1	2319.1	1775.9	1529.3	1521.6	1598.7	1675.7	1698.8	1691.1
62.5°	6991.8	5528.0	3370.7	2195.8	1629.5	1386.8	1348.3	1448.4	1529.3	1544.8	1556.3
65°	7065.0	5531.8	3266.7	2037.8	1479.3	1232.7	1205.8	1305.9	1356.0	1371.4	1371.4
67.5°	7053.5	5470.2	3062.5	1826.0	1340.6	1094.0	1070.9	1132.6	1205.8	1217.3	1205.8
70°	6814.6	5215.9	2735.1	1602.5	1174.9	970.8	928.4	990.0	1059.4	1017.0	997.7
72.5°	6136.6	4557.2	2253.6	1356.0	990.0	816.7	797.4	859.1	862.9	870.6	851.3
75°	4842.3	3393.8	1687.3	1055.5	801.3	685.7	681.8	670.3	685.7	716.5	693.4
77.5°	2542.5	1695.0	913.0	647.2	581.7	550.9	523.9	520.1	566.3	585.5	562.4
80°	1379.1	951.5	523.9	389.1	354.4	358.3	392.9	385.2	435.3	446.9	427.6
82.5°	601.0	450.7	258.1	235.0	235.0	231.1	242.7	269.7	323.6	323.6	258.1
85°	131.0	111.7	100.2	115.6	131.0	131.0	131.0	131.0	92.5	50.1	34.7
87.5°	42.4	42.4	42.4	46.2	50.1	50.1	42.4	30.8	19.3	3.9	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)