

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: P841843

Luminaire Tested: **ARCH4-230-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841843
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: ARCH4-230-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36469 lumens
Efficiency: N/A
Efficacy: 157.7 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): 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

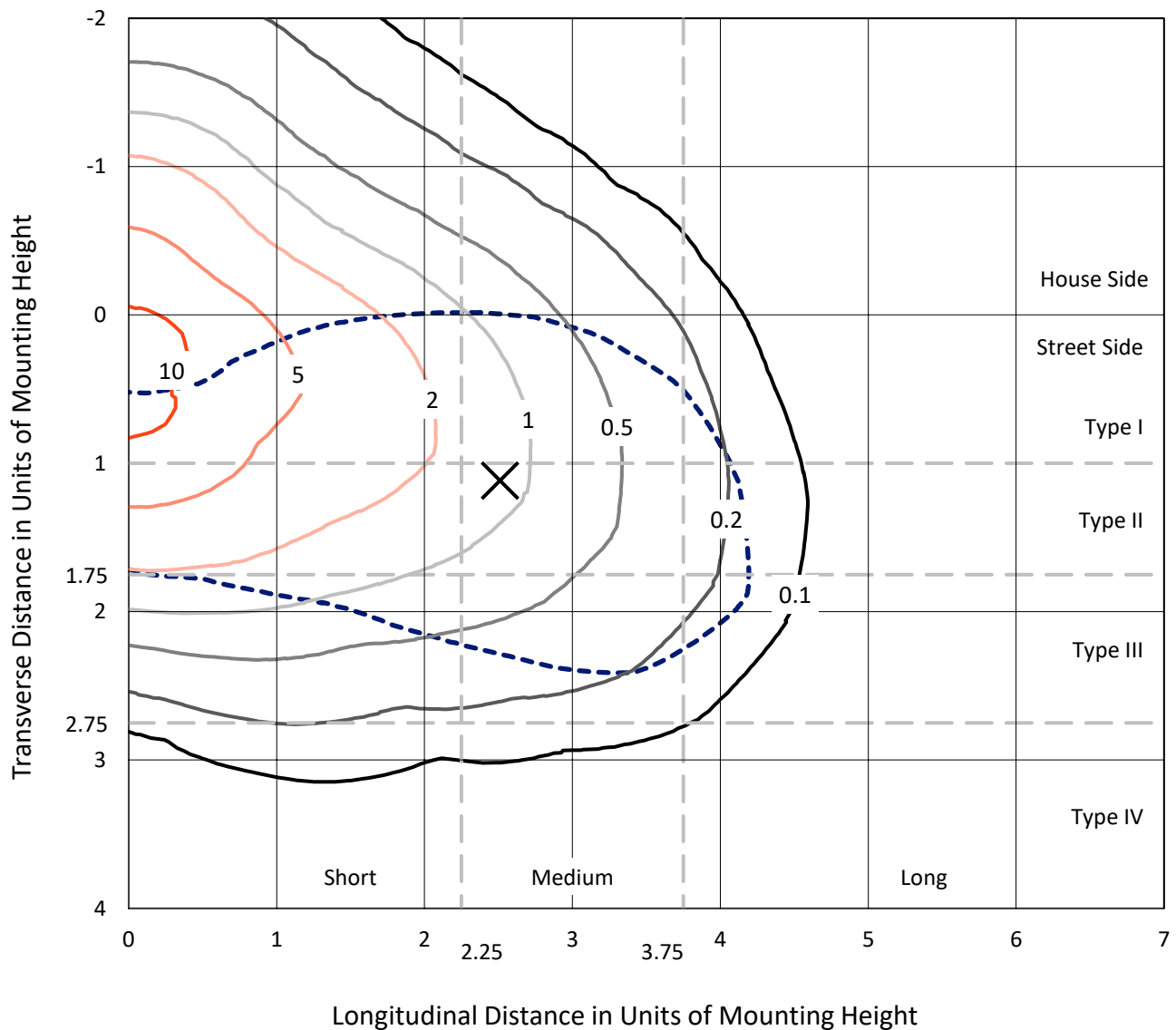


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Iso-Footcandle Lines of Horizontal Illumination

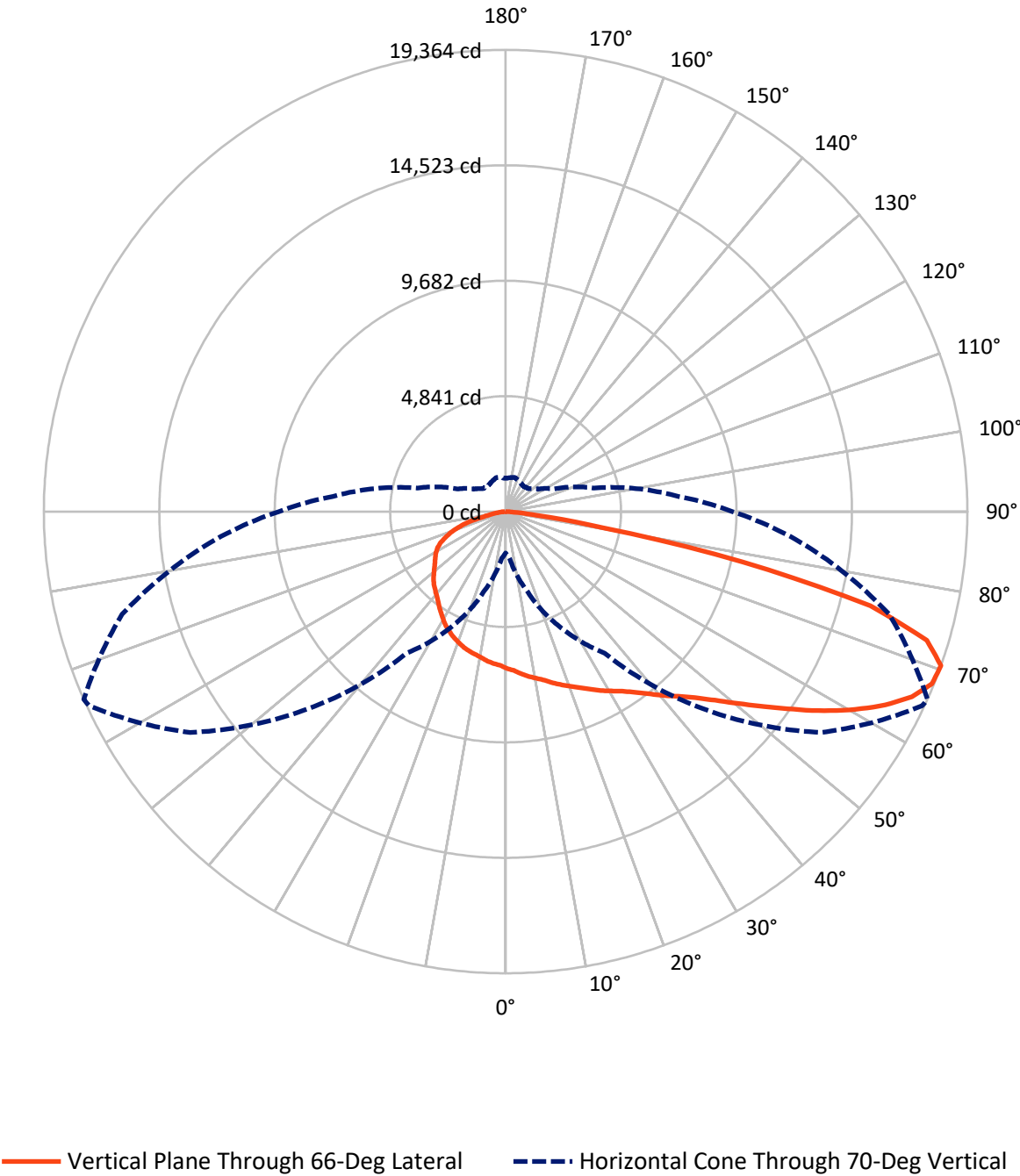
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	9663.5	0.0	9663.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	26805.5	0.0	26805.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	36469.0	0.0	36469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.5	1.7
10°-20°	1897.1	5.2
20°-30°	3180.2	8.7
30°-40°	4761.8	13.1
40°-50°	6366.5	17.5
50°-60°	7433.1	20.4
60°-70°	7391.0	20.3
70°-80°	4375.6	12.0
80°-90°	431.3	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°	36469.0	100.0
0°-180°	36469.0	100.0

Coefficient of Utilization



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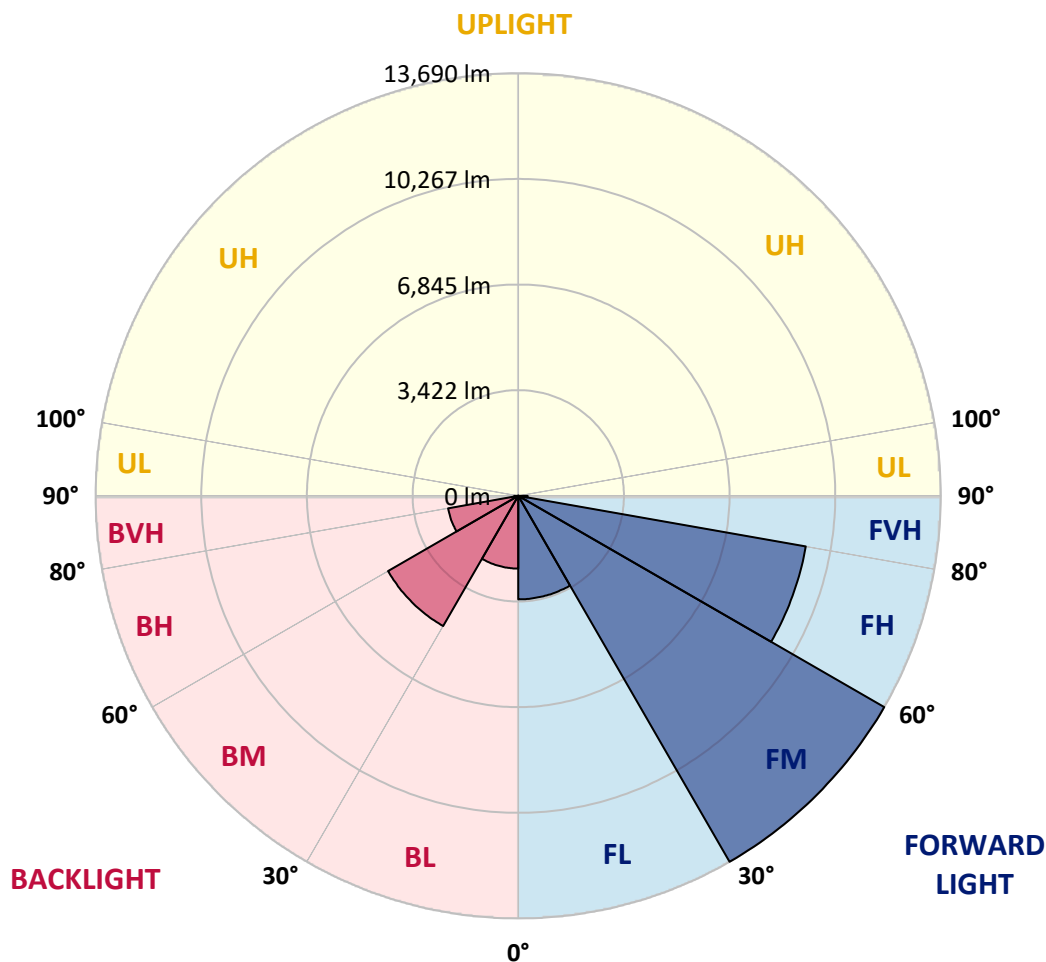
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3354.2	9.2			
FM	(30°-60°)	13690.0	37.5			
FH	(60°-80°)	9458.3	25.9			G4/12000
FVH	(80°-90°)	303.1	0.8			G3/500
BL	(0°-30°)	2355.5	6.5	B3/2500		
BM	(30°-60°)	4871.4	13.4	B3/5000		
BH	(60°-80°)	2308.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	128.2	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°	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8
2.5°	6823.8	6813.0	6807.7	6786.2	6737.8	6759.3	6710.9	6678.6	6673.2	6598.0	6554.9
5°	7103.4	7098.0	7087.3	7055.0	6979.7	6990.5	6909.8	6850.7	6834.6	6716.3	6624.8
7.5°	7340.0	7329.3	7323.9	7280.9	7200.2	7194.8	7098.0	7012.0	6985.1	6823.8	6684.0
10°	7522.9	7506.7	7517.5	7474.5	7388.4	7372.3	7248.6	7135.7	7108.8	6904.5	6710.9
12.5°	7678.8	7668.0	7684.2	7646.5	7576.6	7560.5	7436.8	7291.6	7259.4	7022.8	6770.0
15°	7850.9	7813.2	7845.5	7829.4	7781.0	7775.6	7662.7	7501.3	7458.3	7173.3	6861.4
17.5°	7942.3	7920.8	7958.4	7963.8	7942.3	7979.9	7872.4	7678.8	7641.2	7313.1	6942.1
20°	8006.8	7974.5	8017.6	8049.8	8066.0	8141.2	8055.2	7867.0	7824.0	7447.6	7017.4
22.5°	8227.3	8157.4	8162.8	8184.3	8195.0	8302.6	8248.8	8066.0	8022.9	7614.3	7108.8
25°	8781.1	8641.3	8549.9	8485.4	8410.1	8501.5	8469.3	8291.8	8254.2	7813.2	7221.7
27.5°	9641.5	9464.1	9281.2	9093.0	8797.3	8759.6	8705.9	8544.5	8501.5	8012.2	7334.6
30°	10620.2	10442.7	10227.6	9926.5	9372.6	9082.3	8958.6	8781.1	8732.7	8189.6	7442.2
32.5°	11593.5	11437.5	11222.4	10856.8	10066.3	9474.8	9211.3	9028.5	8980.1	8383.2	7571.2
35°	12351.7	12254.9	12115.1	11658.0	10754.6	9937.3	9577.0	9356.5	9302.7	8689.7	7807.9
37.5°	12964.7	12894.8	12776.5	12297.9	11254.7	10399.7	9996.4	9743.7	9684.5	9023.1	8060.6
40°	13868.1	13685.2	13588.5	12894.8	11690.3	10819.1	10469.6	10206.1	10141.6	9378.0	8264.9
42.5°	14637.0	14502.6	14384.3	13427.1	12104.3	11179.4	10915.9	10674.0	10587.9	9727.5	8485.4
45°	14766.1	14819.9	14760.7	13690.6	12760.3	11534.3	11367.6	11211.7	11131.0	10200.8	8818.8
47.5°	14771.5	14771.5	14421.9	13841.2	13572.3	11932.2	11851.6	11905.4	11819.3	10803.0	9216.7
50°	14384.3	14454.2	14271.4	13878.8	13787.4	12330.2	12443.1	12733.5	12647.4	11442.9	9646.9
52.5°	13583.1	13814.3	13808.9	13819.7	13475.5	12668.9	13066.9	13728.3	13583.1	12163.5	10104.0
55°	12168.8	12631.3	13045.3	13400.2	13206.7	12873.3	13830.4	14787.6	14637.0	12970.1	10566.4
57.5°	10959.0	11254.7	11770.9	12776.5	12889.4	13050.7	14545.6	15895.3	15760.9	13862.7	11050.4
60°	9577.0	9985.7	10501.9	11932.2	12502.2	13281.9	15330.7	16976.2	16847.1	14766.1	11518.2
62.5°	7452.9	7979.9	9012.4	10636.3	11937.6	13427.1	15949.1	17927.9	17868.8	15621.1	11937.6
65°	5194.5	5662.3	7108.8	9044.6	11039.6	13362.6	16443.8	18777.6	18723.8	16320.1	12233.4
67.5°	3032.8	3575.9	5210.6	7280.9	9453.3	12916.3	16605.1	19277.6	19277.6	16744.9	12314.0
70°	1731.5	1984.2	3436.1	5307.4	7248.6	11684.9	16153.4	19272.3	19363.7	16648.1	11980.6
72.5°	1209.9	1322.8	2312.2	3570.5	4914.9	9453.3	14970.4	18342.0	18465.7	15734.0	10840.7
75°	941.0	1021.7	1629.3	2435.9	3097.3	6420.5	12383.9	15465.1	15793.2	13411.0	8765.0
77.5°	715.2	774.3	951.8	1521.8	1984.2	3688.8	8173.5	10141.6	10163.1	8211.1	4699.8
80°	521.6	580.7	634.5	930.3	1054.0	1726.1	3086.6	4237.3	4119.0	3973.8	2543.5
82.5°	311.9	371.0	387.2	505.5	516.2	736.7	1080.8	1365.8	1312.1	1747.6	1193.8
85°	134.4	188.2	199.0	231.2	220.5	301.1	430.2	360.3	322.6	371.0	258.1
87.5°	32.3	53.8	53.8	59.2	48.4	75.3	80.7	59.2	53.8	64.5	64.5
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°	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8	6581.8
2.5°	6544.2	6528.1	6533.4	6442.0	6415.1	6388.2	6372.1	6361.4	6350.6	6366.7	6382.9
5°	6592.6	6554.9	6511.9	6377.5	6323.7	6264.6	6221.5	6183.9	6167.8	6167.8	6183.9
7.5°	6630.2	6565.7	6474.3	6296.8	6200.0	6119.4	6049.5	6001.1	5974.2	5974.2	5990.3
10°	6635.6	6544.2	6399.0	6183.9	6054.8	5936.5	5855.9	5802.1	5764.5	5764.5	5775.2
12.5°	6667.9	6544.2	6356.0	6097.9	5936.5	5791.4	5694.6	5613.9	5597.8	5597.8	5608.5
15°	6721.6	6571.1	6329.1	6022.6	5829.0	5662.3	5554.8	5468.7	5436.5	5458.0	5463.3
17.5°	6770.0	6587.2	6280.7	5925.8	5694.6	5511.7	5393.4	5318.2	5275.1	5323.5	5323.5
20°	6802.3	6587.2	6210.8	5802.1	5549.4	5345.0	5232.1	5140.7	5108.4	5167.6	5173.0
22.5°	6850.7	6581.8	6135.5	5678.4	5393.4	5178.3	5065.4	4995.5	4979.4	5043.9	5065.4
25°	6904.5	6592.6	6054.8	5538.6	5221.4	5011.7	4925.6	4893.3	4904.1	4984.8	5011.7
27.5°	6963.6	6614.1	5974.2	5382.7	5033.2	4845.0	4796.6	4812.7	4855.7	4957.9	4990.1
30°	7017.4	6619.5	5861.3	5199.9	4818.1	4640.6	4662.1	4732.0	4796.6	4898.7	4936.4
32.5°	7087.3	6624.8	5743.0	5000.9	4586.8	4457.8	4554.6	4667.5	4732.0	4828.8	4871.8
35°	7259.4	6716.3	5651.5	4807.3	4371.8	4301.8	4463.2	4608.4	4646.0	4732.0	4769.7
37.5°	7458.3	6866.8	5603.2	4608.4	4162.0	4145.9	4350.2	4495.4	4506.2	4560.0	4597.6
40°	7582.0	6931.3	5549.4	4441.7	3973.8	3984.6	4194.3	4307.2	4285.7	4323.4	4350.2
42.5°	7705.7	6952.9	5436.5	4301.8	3796.4	3807.1	3968.5	4049.1	4059.9	4140.5	4178.2
45°	7915.4	7012.0	5312.8	4172.8	3635.1	3597.4	3694.2	3801.8	3941.6	4097.5	4140.5
47.5°	8195.0	7135.7	5183.7	4016.8	3479.1	3355.4	3393.1	3581.3	3726.5	3871.7	3898.5
50°	8480.0	7259.4	5065.4	3828.6	3323.2	3097.3	3113.5	3285.5	3403.8	3516.8	3532.9
52.5°	8759.6	7366.9	4963.3	3651.2	3145.7	2790.8	2855.4	3032.8	3113.5	3167.2	3183.4
55°	9039.3	7458.3	4871.8	3500.6	2941.4	2548.8	2608.0	2774.7	2855.4	2882.2	2893.0
57.5°	9329.6	7565.9	4801.9	3371.6	2710.2	2333.8	2371.4	2489.7	2565.0	2597.2	2586.5
60°	9571.6	7657.3	4764.3	3237.1	2478.9	2134.8	2124.0	2231.6	2339.1	2371.4	2360.6
62.5°	9759.8	7716.4	4705.1	3065.1	2274.6	1935.8	1882.1	2021.9	2134.8	2156.3	2172.4
65°	9862.0	7721.8	4560.0	2844.6	2064.9	1720.7	1683.1	1822.9	1892.8	1914.3	1914.3
67.5°	9845.8	7635.8	4275.0	2548.8	1871.3	1527.2	1494.9	1580.9	1683.1	1699.2	1683.1
70°	9512.5	7280.9	3817.9	2237.0	1640.1	1355.1	1295.9	1382.0	1478.8	1419.6	1392.7
72.5°	8566.1	6361.4	3145.7	1892.8	1382.0	1140.0	1113.1	1199.1	1204.5	1215.3	1188.4
75°	6759.3	4737.4	2355.3	1473.4	1118.5	957.2	951.8	935.7	957.2	1000.2	967.9
77.5°	3549.0	2366.0	1274.4	903.4	812.0	769.0	731.3	725.9	790.5	817.4	785.1
80°	1925.1	1328.2	731.3	543.1	494.7	500.1	548.5	537.7	607.6	623.8	596.9
82.5°	838.9	629.1	360.3	328.0	328.0	322.6	338.8	376.4	451.7	451.7	360.3
85°	182.8	155.9	139.8	161.3	182.8	182.8	182.8	182.8	129.1	69.9	48.4
87.5°	59.2	59.2	59.2	64.5	69.9	69.9	59.2	43.0	26.9	5.4	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)