

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: P842023

Luminaire Tested: **ARCH4-260-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842023
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: ARCH4-260-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36558 lumens
Efficiency: N/A
Efficacy: 141.0 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): 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



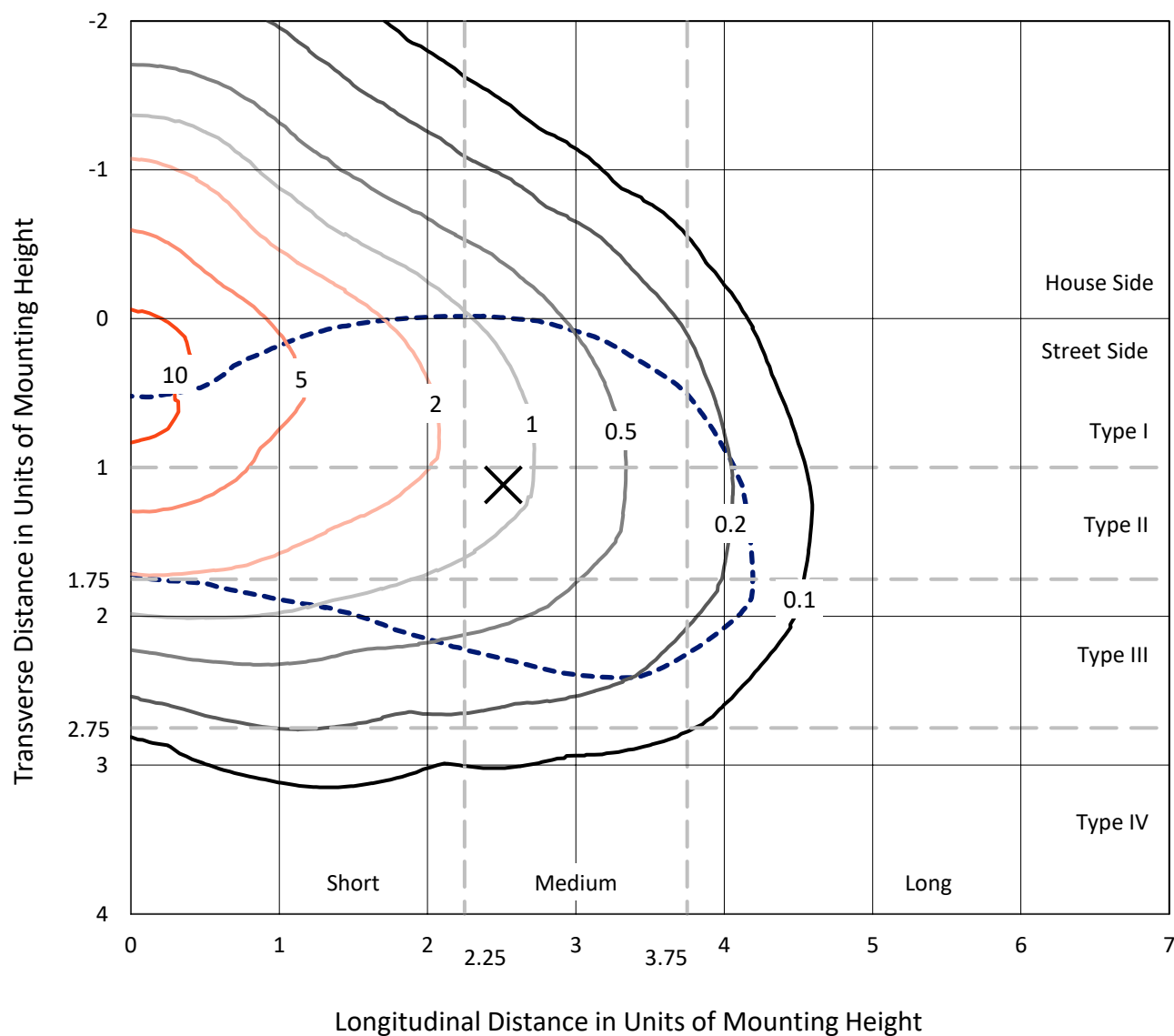
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

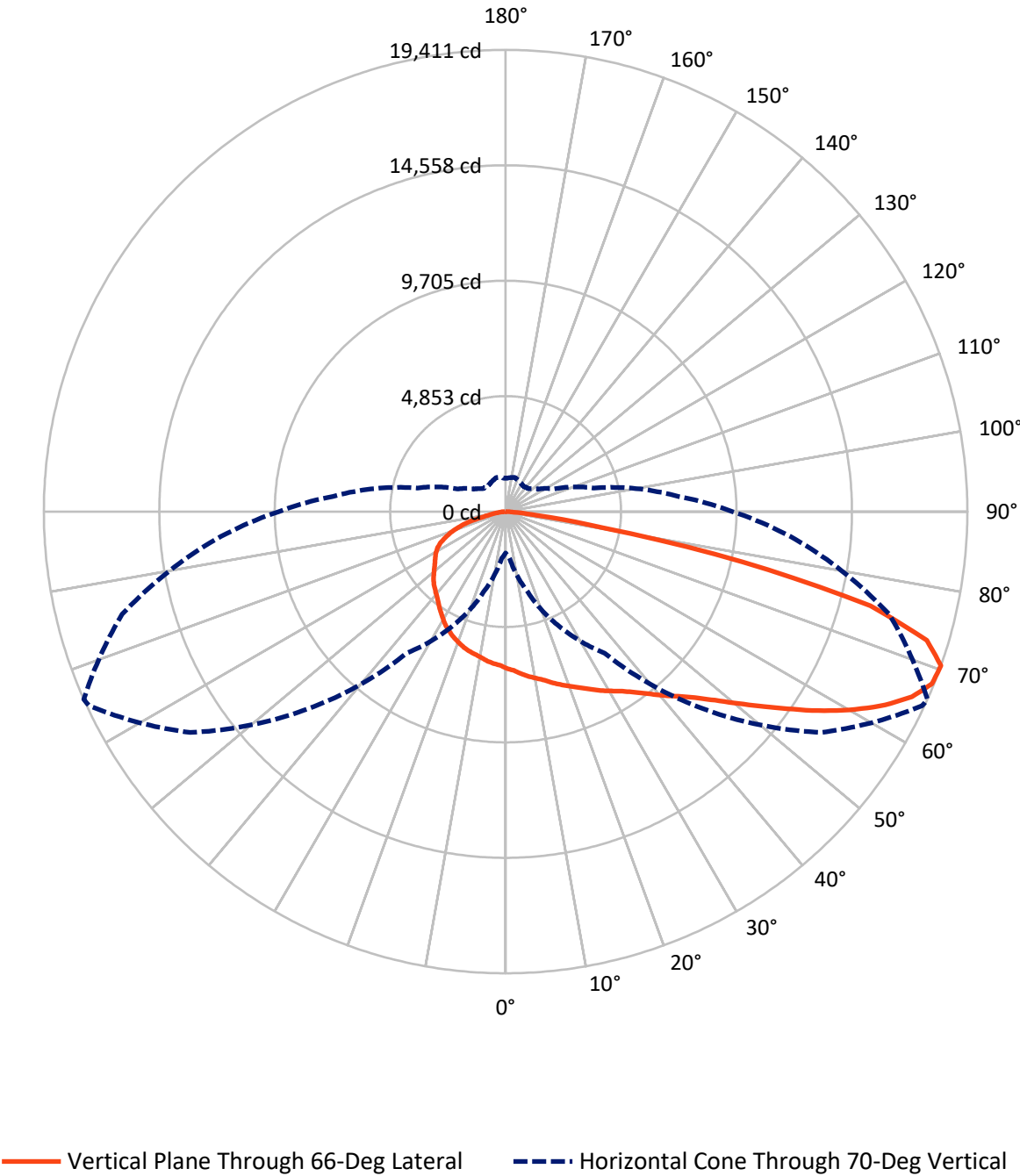
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	9687.0	0.0	9687.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	26871.0	0.0	26871.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	36558.0	0.0	36558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.0	1.7
10°-20°	1901.7	5.2
20°-30°	3187.9	8.7
30°-40°	4773.4	13.1
40°-50°	6382.0	17.5
50°-60°	7451.2	20.4
60°-70°	7409.1	20.3
70°-80°	4386.3	12.0
80°-90°	432.3	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°	36558.0	100.0
0°-180°	36558.0	100.0

Coefficient of Utilization



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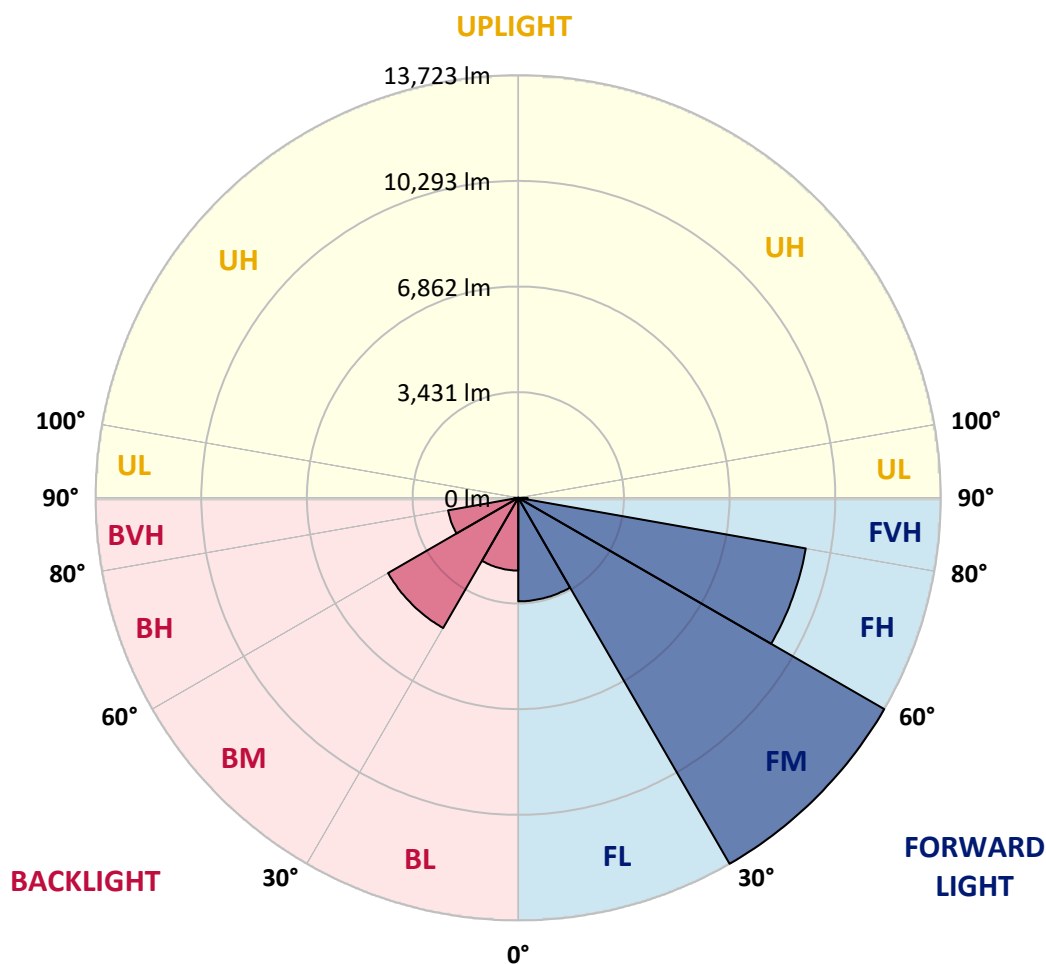
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3362.4	9.2			
FM	(30°-60°)	13723.4	37.5			
FH	(60°-80°)	9481.4	25.9			G4/12000
FVH	(80°-90°)	303.8	0.8			G3/500
BL	(0°-30°)	2361.3	6.5	B3/2500		
BM	(30°-60°)	4883.3	13.4	B3/5000		
BH	(60°-80°)	2314.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	128.5	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°	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9
2.5°	6840.5	6829.7	6824.3	6802.7	6754.2	6775.8	6727.3	6694.9	6689.5	6614.1	6570.9
5°	7120.8	7115.4	7104.6	7072.2	6996.8	7007.6	6926.7	6867.4	6851.2	6732.6	6641.0
7.5°	7357.9	7347.2	7341.8	7298.6	7217.8	7212.4	7115.4	7029.1	7002.2	6840.5	6700.3
10°	7541.2	7525.0	7535.8	7492.7	7406.5	7390.3	7266.3	7153.1	7126.1	6921.3	6727.3
12.5°	7697.5	7686.8	7702.9	7665.2	7595.1	7578.9	7455.0	7309.4	7277.1	7039.9	6786.6
15°	7870.0	7832.3	7864.6	7848.5	7800.0	7794.6	7681.4	7519.7	7476.5	7190.8	6878.2
17.5°	7961.7	7940.1	7977.8	7983.2	7961.7	7999.4	7891.6	7697.5	7659.8	7331.0	6959.0
20°	8026.4	7994.0	8037.1	8069.5	8085.6	8161.1	8074.9	7886.2	7843.1	7465.7	7034.5
22.5°	8247.4	8177.3	8182.7	8204.2	8215.0	8322.8	8268.9	8085.6	8042.5	7632.8	7126.1
25°	8802.6	8662.4	8570.8	8506.1	8430.6	8522.3	8489.9	8312.0	8274.3	7832.3	7239.3
27.5°	9665.0	9487.2	9303.9	9115.2	8818.7	8781.0	8727.1	8565.4	8522.3	8031.7	7352.5
30°	10646.1	10468.2	10252.6	9950.7	9395.5	9104.4	8980.5	8802.6	8754.1	8209.6	7460.4
32.5°	11621.8	11465.4	11249.8	10883.3	10090.9	9497.9	9233.8	9050.5	9002.0	8403.7	7589.7
35°	12381.8	12284.8	12144.6	11686.5	10780.9	9961.5	9600.4	9379.3	9325.4	8710.9	7826.9
37.5°	12996.3	12926.3	12807.7	12327.9	11282.2	10425.1	10020.8	9767.5	9708.2	9045.1	8080.3
40°	13901.9	13718.6	13621.6	12926.3	11718.8	10845.5	10495.2	10231.0	10166.4	9400.9	8285.1
42.5°	14672.8	14538.0	14419.4	13459.9	12133.9	11206.7	10942.6	10700.0	10613.8	9751.3	8506.1
45°	14802.1	14856.0	14796.7	13724.0	12791.5	11562.5	11395.4	11239.0	11158.2	10225.6	8840.3
47.5°	14807.5	14807.5	14457.1	13875.0	13605.4	11961.4	11880.5	11934.4	11848.2	10829.4	9239.2
50°	14419.4	14489.5	14306.2	13912.7	13821.1	12360.3	12473.5	12764.5	12678.3	11470.8	9670.4
52.5°	13616.2	13848.0	13842.6	13853.4	13508.4	12699.9	13098.7	13761.8	13616.2	12193.2	10128.6
55°	12198.5	12662.1	13077.2	13433.0	13238.9	12904.7	13864.2	14823.7	14672.8	13001.7	10592.2
57.5°	10985.7	11282.2	11799.7	12807.7	12920.9	13082.6	14581.1	15934.1	15799.4	13896.5	11077.3
60°	9600.4	10010.0	10527.5	11961.4	12532.8	13314.4	15368.1	17017.6	16888.2	14802.1	11546.3
62.5°	7471.1	7999.4	9034.4	10662.3	11966.8	13459.9	15988.0	17971.7	17912.4	15659.2	11966.8
65°	5207.2	5676.1	7126.1	9066.7	11066.6	13395.2	16483.9	18823.4	18769.5	16360.0	12263.2
67.5°	3040.2	3584.6	5223.3	7298.6	9476.4	12947.8	16645.6	19324.7	19324.7	16785.8	12344.1
70°	1735.7	1989.1	3444.5	5320.4	7266.3	11713.4	16192.9	19319.3	19410.9	16688.8	12009.9
72.5°	1212.8	1326.0	2317.9	3579.2	4926.9	9476.4	15007.0	18386.8	18510.7	15772.4	10867.1
75°	943.3	1024.2	1633.3	2441.9	3104.9	6436.2	12414.2	15502.9	15831.7	13443.7	8786.4
77.5°	716.9	776.2	954.1	1525.5	1989.1	3697.8	8193.5	10166.4	10187.9	8231.2	4711.2
80°	522.9	582.2	636.1	932.5	1056.5	1730.3	3094.1	4247.7	4129.1	3983.5	2549.7
82.5°	312.6	371.9	388.1	506.7	517.5	738.5	1083.5	1369.2	1315.3	1751.9	1196.7
85°	134.8	188.7	199.4	231.8	221.0	301.9	431.2	361.2	323.4	371.9	258.7
87.5°	32.3	53.9	53.9	59.3	48.5	75.5	80.9	59.3	53.9	64.7	64.7
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°	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9	6597.9
2.5°	6560.2	6544.0	6549.4	6457.7	6430.8	6403.8	6387.7	6376.9	6366.1	6382.3	6398.4
5°	6608.7	6570.9	6527.8	6393.1	6339.1	6279.9	6236.7	6199.0	6182.8	6182.8	6199.0
7.5°	6646.4	6581.7	6490.1	6312.2	6215.2	6134.3	6064.2	6015.7	5988.8	5988.8	6004.9
10°	6651.8	6560.2	6414.6	6199.0	6069.6	5951.0	5870.2	5816.3	5778.5	5778.5	5789.3
12.5°	6684.1	6560.2	6371.5	6112.7	5951.0	5805.5	5708.5	5627.6	5611.4	5611.4	5622.2
15°	6738.0	6587.1	6344.5	6037.3	5843.2	5676.1	5568.3	5482.1	5449.7	5471.3	5476.7
17.5°	6786.6	6603.3	6296.0	5940.3	5708.5	5525.2	5406.6	5331.1	5288.0	5336.5	5336.5
20°	6818.9	6603.3	6225.9	5816.3	5562.9	5358.1	5244.9	5153.3	5120.9	5180.2	5185.6
22.5°	6867.4	6597.9	6150.5	5692.3	5406.6	5191.0	5077.8	5007.7	4991.5	5056.2	5077.8
25°	6921.3	6608.7	6069.6	5552.1	5234.1	5023.9	4937.6	4905.3	4916.1	4996.9	5023.9
27.5°	6980.6	6630.2	5988.8	5395.8	5045.4	4856.8	4808.3	4824.4	4867.6	4970.0	5002.3
30°	7034.5	6635.6	5875.6	5212.5	4829.8	4651.9	4673.5	4743.6	4808.3	4910.7	4948.4
32.5°	7104.6	6641.0	5757.0	5013.1	4598.0	4468.7	4565.7	4678.9	4743.6	4840.6	4883.7
35°	7277.1	6732.6	5665.3	4819.0	4382.4	4312.3	4474.1	4619.6	4657.3	4743.6	4781.3
37.5°	7476.5	6883.6	5616.8	4619.6	4172.2	4156.0	4360.9	4506.4	4517.2	4571.1	4608.8
40°	7600.5	6948.3	5562.9	4452.5	3983.5	3994.3	4204.5	4317.7	4296.2	4333.9	4360.9
42.5°	7724.5	6969.8	5449.7	4312.3	3805.6	3816.4	3978.1	4059.0	4069.8	4150.6	4188.4
45°	7934.7	7029.1	5325.7	4183.0	3643.9	3606.2	3703.2	3811.0	3951.2	4107.5	4150.6
47.5°	8215.0	7153.1	5196.4	4026.7	3487.6	3363.6	3401.4	3590.0	3735.6	3881.1	3908.1
50°	8500.7	7277.1	5077.8	3838.0	3331.3	3104.9	3121.1	3293.6	3412.1	3525.3	3541.5
52.5°	8781.0	7384.9	4975.4	3660.1	3153.4	2797.6	2862.3	3040.2	3121.1	3175.0	3191.1
55°	9061.3	7476.5	4883.7	3509.2	2948.6	2555.1	2614.4	2781.5	2862.3	2889.3	2900.1
57.5°	9352.4	7584.3	4813.7	3379.8	2716.8	2339.4	2377.2	2495.8	2571.2	2603.6	2592.8
60°	9595.0	7676.0	4775.9	3245.0	2485.0	2140.0	2129.2	2237.0	2344.8	2377.2	2366.4
62.5°	9783.6	7735.3	4716.6	3072.5	2280.2	1940.6	1886.7	2026.8	2140.0	2161.6	2177.7
65°	9886.0	7740.7	4571.1	2851.5	2069.9	1724.9	1687.2	1827.4	1897.4	1919.0	1919.0
67.5°	9869.9	7654.4	4285.4	2555.1	1875.9	1530.9	1498.5	1584.8	1687.2	1703.4	1687.2
70°	9535.7	7298.6	3827.2	2242.4	1644.1	1358.4	1299.1	1385.3	1482.4	1423.1	1396.1
72.5°	8587.0	6376.9	3153.4	1897.4	1385.3	1142.8	1115.8	1202.1	1207.5	1218.2	1191.3
75°	6775.8	4749.0	2361.0	1477.0	1121.2	959.5	954.1	937.9	959.5	1002.6	970.3
77.5°	3557.7	2371.8	1277.5	905.6	814.0	770.8	733.1	727.7	792.4	819.3	787.0
80°	1929.8	1331.4	733.1	544.4	495.9	501.3	549.8	539.0	609.1	625.3	598.3
82.5°	840.9	630.7	361.2	328.8	328.8	323.4	339.6	377.3	452.8	452.8	361.2
85°	183.3	156.3	140.2	161.7	183.3	183.3	183.3	183.3	129.4	70.1	48.5
87.5°	59.3	59.3	59.3	64.7	70.1	70.1	59.3	43.1	27.0	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)