

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: P318243

Luminaire Tested: **GAN-SA9B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39839 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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



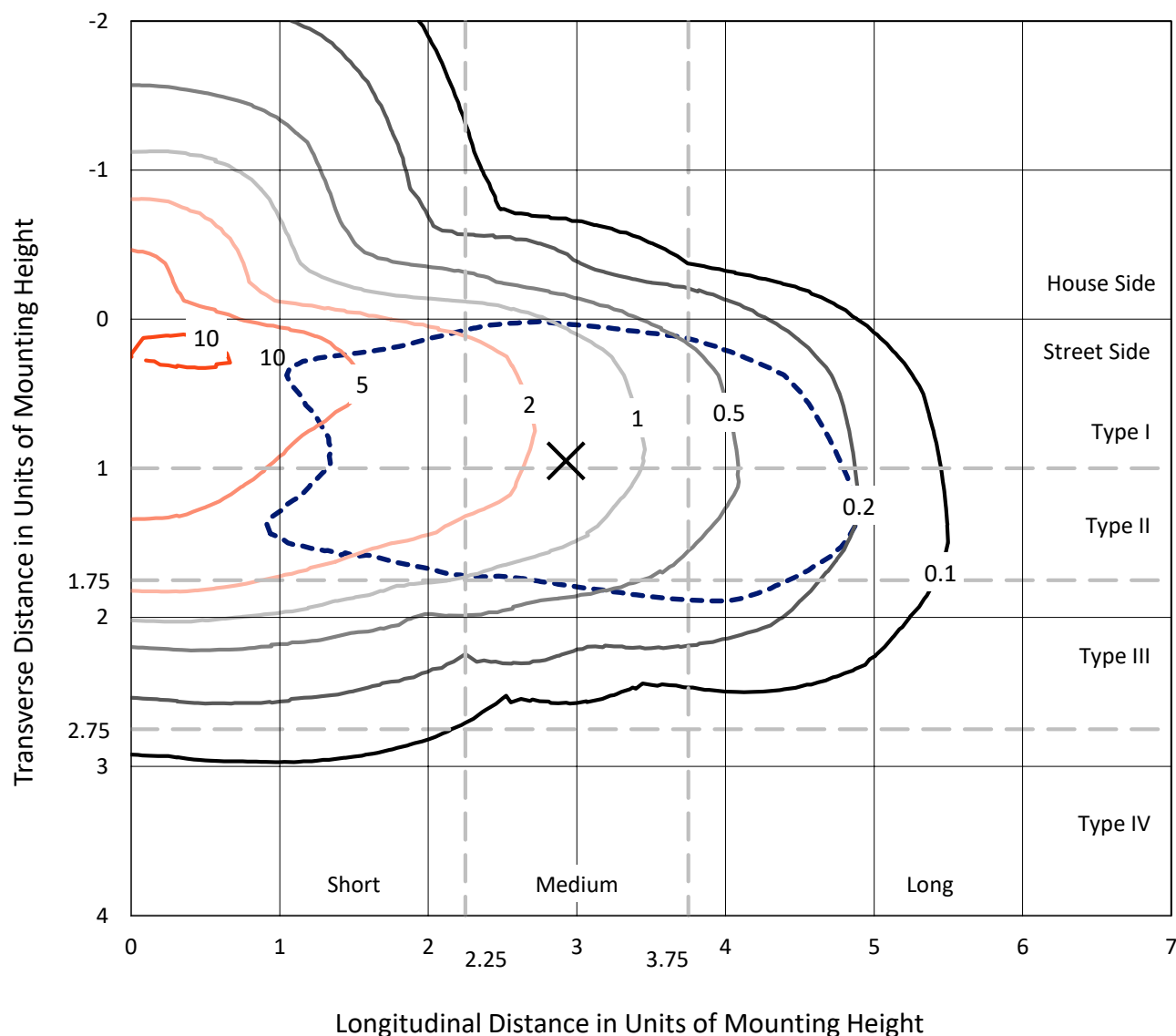
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

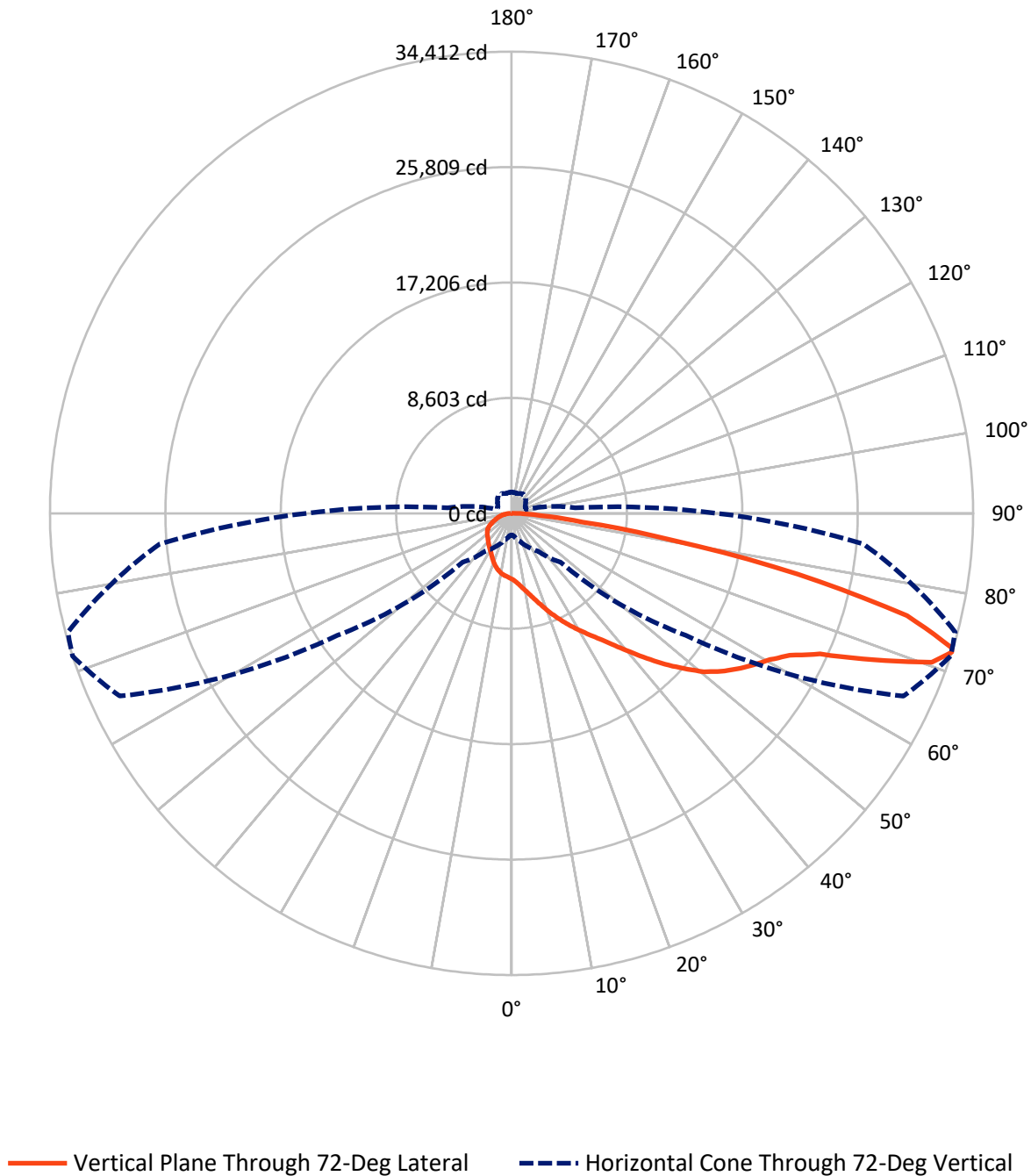
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	7390.4	0.0	7390.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32448.6	0.0	32448.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	39839.0	0.0	39839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.1	1.2
10°-20°	1587.1	4.0
20°-30°	2781.0	7.0
30°-40°	4123.4	10.4
40°-50°	6030.8	15.1
50°-60°	8298.3	20.8
60°-70°	9238.5	23.2
70°-80°	6260.0	15.7
80°-90°	1028.9	2.6
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°	39839.0	100.0
0°-180°	39839.0	100.0

Coefficient of Utilization



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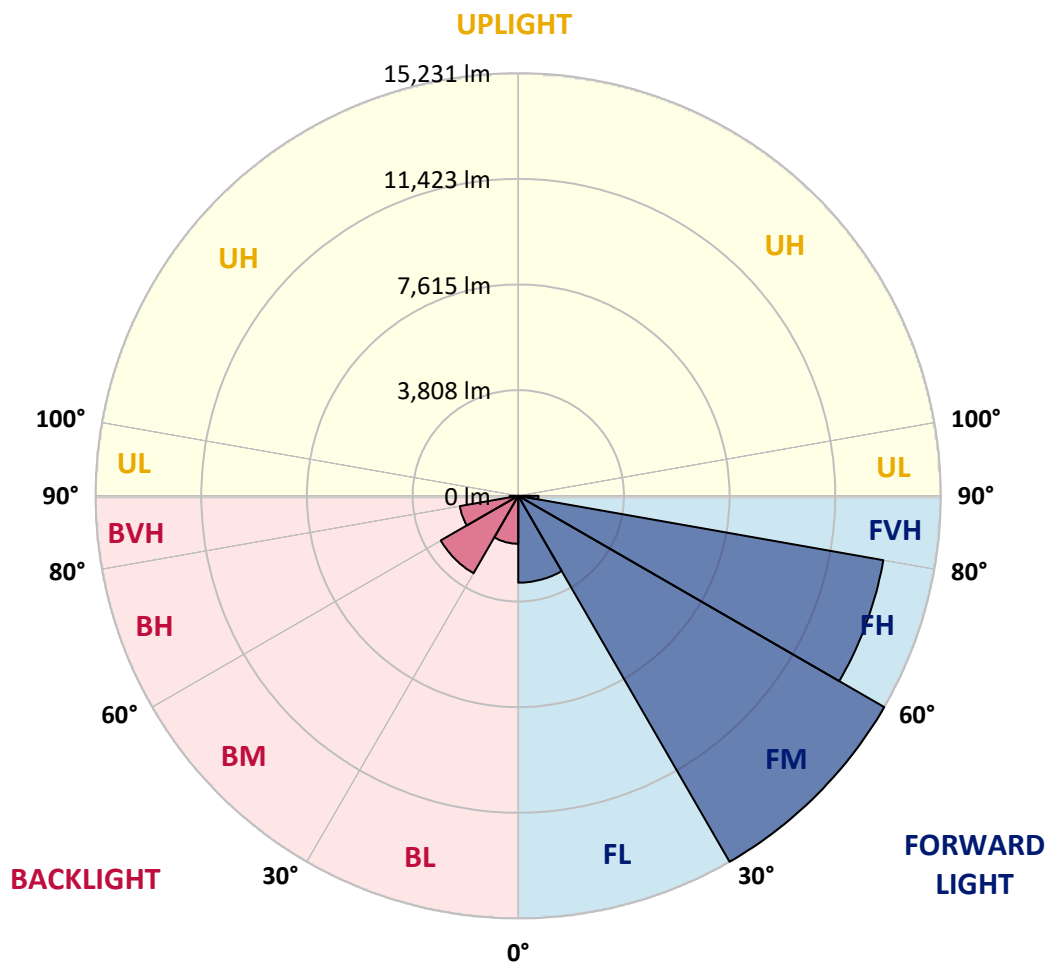
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3131.6	7.9			
FM	(30°-60°)	15230.9	38.2			
FH	(60°-80°)	13360.3	33.5			G5
FVH	(80°-90°)	725.8	1.8			G4/750
BL	(0°-30°)	1727.6	4.3	B3/2500		
BM	(30°-60°)	3221.5	8.1	B3/5000		
BH	(60°-80°)	2138.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	303.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2
2.5°	5414.3	5406.0	5377.2	5377.2	5322.4	5275.7	5187.9	5128.9	5059.0	5034.3	4952.0
5°	5938.3	5941.0	5905.4	5880.7	5799.7	5701.0	5551.4	5415.6	5279.8	5225.0	5056.2
7.5°	6378.6	6373.1	6363.5	6342.9	6267.5	6166.0	5964.3	5762.7	5562.4	5480.1	5189.3
10°	6661.2	6673.5	6681.8	6691.4	6659.8	6587.1	6396.4	6150.9	5888.9	5776.4	5348.4
12.5°	6803.8	6825.8	6864.2	6930.0	6982.2	6973.9	6835.4	6574.8	6263.4	6122.1	5547.3
15°	6887.5	6916.3	6976.7	7094.7	7241.4	7325.1	7288.1	7052.1	6705.1	6530.9	5790.1
17.5°	6939.6	6963.0	7056.2	7214.0	7432.1	7654.3	7751.7	7554.2	7204.4	7005.5	6068.6
20°	6975.3	6993.1	7109.7	7294.9	7577.5	7931.4	8203.0	8153.6	7754.5	7496.6	6359.4
22.5°	7054.9	7070.0	7181.1	7367.6	7680.4	8137.2	8637.9	8711.9	8334.7	8042.5	6670.8
25°	7277.1	7277.1	7370.4	7500.7	7794.2	8315.5	9005.5	9333.3	8927.3	8587.1	6958.9
27.5°	7701.0	7696.8	7731.1	7776.4	7998.6	8496.6	9333.3	9882.0	9541.8	9170.1	7238.7
30°	8203.0	8230.5	8234.6	8212.6	8316.9	8722.9	9636.5	10460.9	10160.5	9759.9	7525.4
32.5°	8849.1	8866.9	8846.4	8773.7	8758.6	9043.9	9934.2	11067.2	10829.9	10375.9	7787.4
35°	9669.4	9635.1	9570.6	9422.5	9281.2	9473.3	10274.4	11673.5	11581.6	11120.7	8148.2
37.5°	10548.7	10550.1	10470.5	10134.4	9939.6	10022.0	10743.5	12360.8	12491.1	12006.9	8610.4
40°	11253.8	11290.8	11340.2	10898.5	10646.1	10759.9	11340.2	13157.8	13566.5	13057.6	9212.6
42.5°	11746.2	11788.8	11928.7	11651.6	11389.6	11600.8	12042.5	14008.2	14773.7	14270.2	9917.7
45°	12267.5	12290.8	12389.6	12270.2	12102.9	12578.9	12834.0	14888.9	16050.8	15562.4	10706.5
47.5°	12816.2	12840.9	12942.4	12862.8	12775.0	13492.5	13659.8	15718.8	17274.4	16982.2	11548.7
50°	13493.8	13510.3	13606.3	13462.3	13489.7	14181.1	14397.8	16480.1	18556.9	18257.9	12393.7
52.5°	14418.4	14422.5	14555.6	14425.2	14296.3	14685.9	15032.9	17197.5	19562.4	19421.1	13238.7
55°	15142.7	15186.6	15622.8	15595.3	15521.3	15144.0	15563.8	17880.7	20459.5	20526.8	14135.8
57.5°	14680.4	14851.9	15735.3	16358.0	16964.3	16284.0	16281.2	18650.2	21293.6	21611.8	15122.1
60°	12857.3	13090.5	14392.3	15773.7	17670.8	18267.5	17770.9	19589.9	22135.8	22687.3	16358.0
62.5°	9182.4	9566.5	11330.6	13536.4	16702.3	19581.6	20802.5	21080.9	23281.2	23932.8	17964.3
65°	4642.0	4932.8	6411.5	9068.6	13344.3	18722.9	24097.4	24345.7	25271.6	25850.5	20437.6
67.5°	2820.3	2930.0	3651.6	5043.9	8181.1	14584.4	25172.8	29787.4	29123.5	29430.7	23964.3
70°	2078.2	2159.1	2609.1	3349.8	4705.1	8558.3	21872.4	33670.8	33234.6	33200.3	26570.7
72°	1618.7	1677.6	2075.4	2706.4	3440.3	5134.4	15853.2	32237.3	34411.5	34238.7	26332.0
72.5°	1535.0	1587.1	1949.2	2547.3	3251.0	4654.3	14253.8	31270.2	34326.5	34248.3	26023.3
75°	1208.5	1245.5	1443.1	1969.8	2544.6	2640.6	7810.7	24233.2	30451.3	31717.4	23406.0
77.5°	1000.0	1005.5	1109.7	1433.5	1983.5	1866.9	3836.8	16813.4	21805.2	23197.5	16580.3
80°	814.8	821.7	871.1	1005.5	1500.7	1381.3	1821.7	9668.0	12208.5	12223.6	7884.8
82.5°	648.8	650.2	705.1	735.3	1078.2	987.7	1043.9	4539.1	5334.7	5131.7	2834.0
85°	456.8	447.2	688.6	603.6	705.1	633.7	576.1	1797.0	2205.8	2109.7	887.5
87.5°	152.3	157.8	305.9	390.9	411.5	359.4	256.5	688.6	832.6	825.8	281.2
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°	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2	4901.2
2.5°	4925.9	4882.0	4817.6	4746.2	4690.0	4632.4	4589.9	4567.9	4543.2	4522.6	4547.3
5°	4978.1	4895.7	4758.6	4624.1	4525.4	4437.6	4374.5	4341.6	4311.4	4290.8	4293.6
7.5°	5063.1	4930.0	4699.6	4503.4	4366.3	4271.6	4207.1	4185.2	4166.0	4160.5	4167.4
10°	5153.6	4957.5	4621.4	4360.8	4204.4	4126.2	4097.4	4112.5	4126.2	4138.5	4152.3
12.5°	5256.5	4982.2	4507.5	4193.4	4060.4	4030.2	4059.0	4124.8	4172.8	4201.6	4219.5
15°	5390.9	5004.1	4375.9	4026.1	3936.9	3971.2	4068.6	4182.4	4266.1	4319.6	4327.8
17.5°	5514.4	5002.7	4207.1	3857.3	3836.8	3936.9	4083.7	4244.2	4356.7	4432.1	4447.2
20°	5642.0	4965.7	4011.0	3692.7	3735.3	3899.9	4090.5	4284.0	4419.8	4507.5	4528.1
22.5°	5761.3	4901.2	3795.6	3543.2	3650.2	3850.5	4064.5	4260.6	4396.4	4467.8	4489.7
25°	5842.3	4788.8	3577.5	3417.0	3574.8	3790.1	3979.4	4137.2	4238.7	4274.3	4279.8
27.5°	5883.4	4642.0	3371.7	3307.3	3496.6	3691.4	3821.7	3899.9	3928.7	3925.9	3920.4
30°	5888.9	4448.6	3194.8	3218.1	3406.0	3546.0	3607.7	3592.6	3555.6	3492.5	3497.9
32.5°	5871.1	4230.5	3046.6	3133.1	3290.8	3369.0	3371.7	3299.0	3200.3	3100.1	3072.7
35°	5876.5	4016.5	2916.3	3037.0	3150.9	3185.2	3153.6	3046.6	2912.2	2783.3	2755.8
37.5°	5936.9	3829.9	2803.8	2925.9	2995.9	3004.1	2958.8	2846.4	2747.6	2621.4	2610.4
40°	6080.9	3696.8	2696.8	2801.1	2840.9	2845.0	2780.5	2701.0	2709.2	2642.0	2640.6
42.5°	6340.2	3639.2	2602.2	2670.8	2695.5	2703.7	2654.3	2603.6	2674.9	2631.0	2615.9
45°	6674.9	3653.0	2522.6	2543.2	2588.5	2626.9	2596.7	2535.0	2562.4	2371.7	2308.6
47.5°	7061.7	3740.7	2459.5	2433.5	2511.7	2584.4	2537.7	2444.4	2347.1	2157.8	2122.1
50°	7514.4	3876.5	2401.9	2325.1	2428.0	2526.7	2480.1	2347.1	2200.3	2108.4	2096.0
52.5°	7986.3	4042.5	2344.3	2205.8	2322.4	2482.9	2459.5	2325.1	2144.0	2053.5	2037.0
55°	8521.3	4209.9	2271.6	2067.2	2208.5	2462.3	2449.9	2245.5	2101.5	2050.8	2038.4
57.5°	9186.6	4400.6	2175.6	1923.2	2101.5	2388.2	2349.8	2197.5	2057.6	2019.2	2015.1
60°	10053.5	4681.8	2037.0	1769.5	1971.2	2274.3	2266.1	2127.6	1987.7	1960.2	1954.7
62.5°	11353.9	5146.8	1846.4	1615.9	1825.8	2080.9	2156.4	2032.9	1913.6	1912.2	1915.0
65°	13370.4	5846.4	1639.2	1481.5	1679.0	1917.7	2028.8	1935.5	1838.1	1865.6	1869.7
67.5°	15707.8	6426.6	1436.2	1349.8	1529.5	1762.7	1913.6	1838.1	1738.0	1809.3	1810.7
70°	16485.6	5908.1	1257.9	1219.5	1374.5	1613.2	1788.8	1731.1	1629.6	1701.0	1694.1
72°	15341.6	4769.5	1142.7	1120.7	1257.9	1489.7	1677.6	1631.0	1530.9	1578.9	1561.0
72.5°	14980.8	4547.3	1113.9	1096.0	1226.3	1458.2	1648.8	1606.3	1506.2	1547.3	1530.9
75°	13363.5	3949.2	957.5	961.6	1070.0	1304.5	1487.0	1473.3	1370.4	1374.5	1369.0
77.5°	9692.7	2895.7	806.6	834.0	910.8	1146.8	1323.7	1315.5	1203.0	1182.4	1178.3
80°	4497.9	1477.4	657.1	669.4	749.0	958.8	1128.9	1118.0	1027.4	1001.4	986.3
82.5°	1540.5	702.3	493.8	502.1	580.2	772.3	979.4	972.6	897.1	846.4	814.8
85°	550.1	349.8	345.7	337.4	414.3	607.7	853.2	816.2	705.1	600.8	598.1
87.5°	178.3	149.5	178.3	177.0	241.4	411.5	620.0	528.1	511.7	425.2	417.0
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)