

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: P318251

Luminaire Tested: **GAN-SA7C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318251
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-SA7C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39014 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

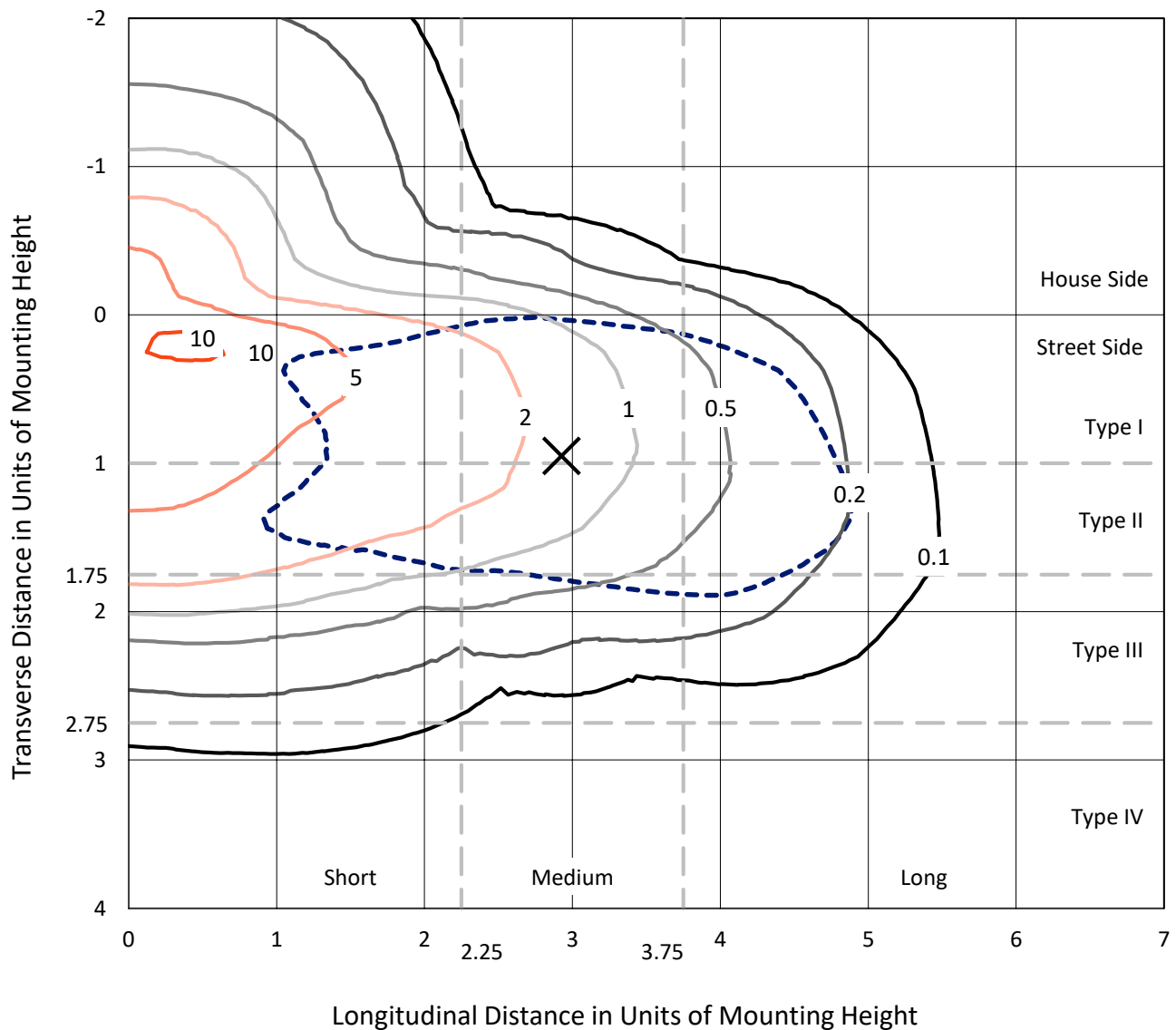
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

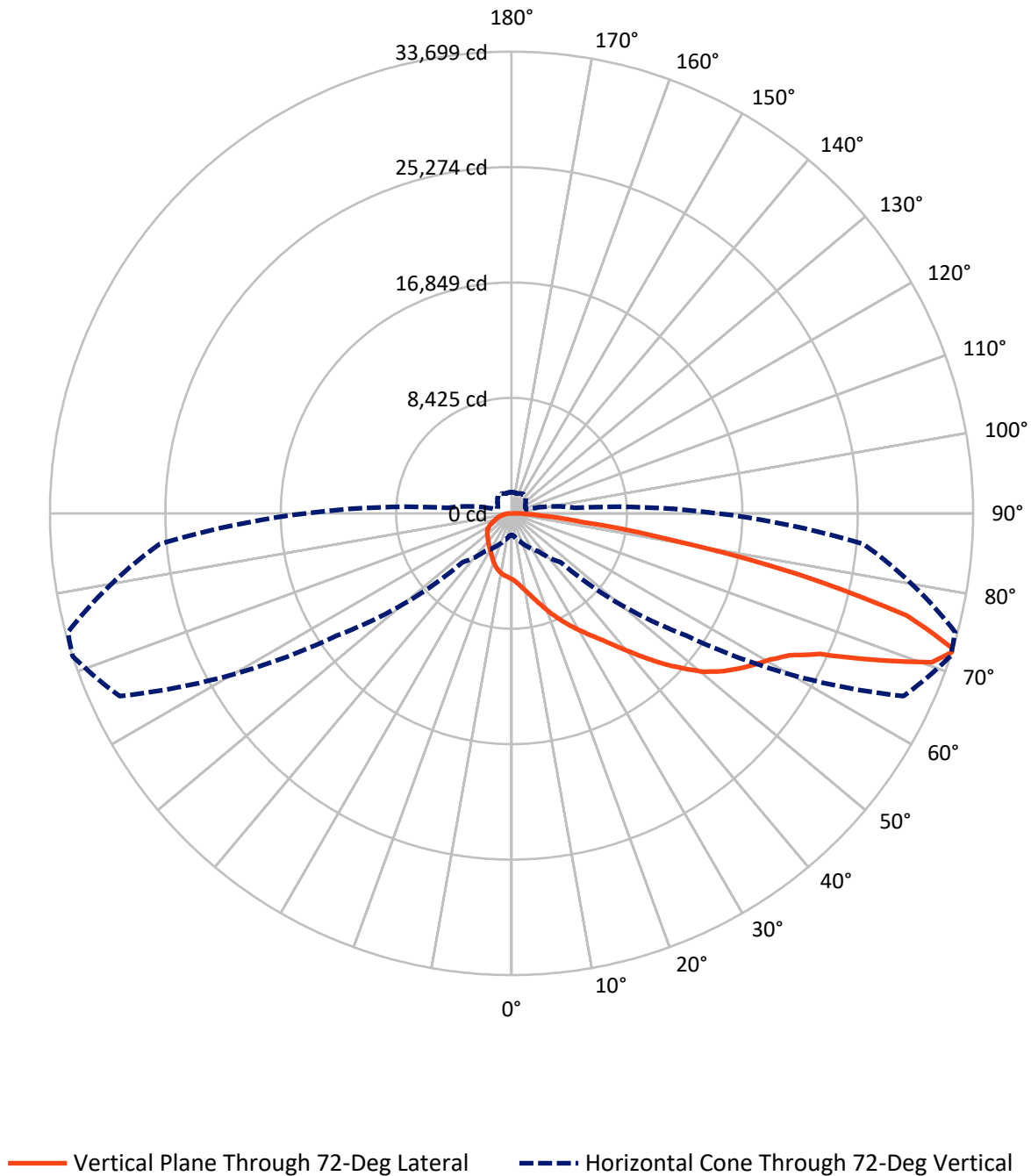
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	7237.4	0.0	7237.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31776.6	0.0	31776.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	39014.0	0.0	39014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.9	1.2
10°-20°	1554.2	4.0
20°-30°	2723.4	7.0
30°-40°	4038.0	10.4
40°-50°	5905.9	15.1
50°-60°	8126.5	20.8
60°-70°	9047.2	23.2
70°-80°	6130.3	15.7
80°-90°	1007.6	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°	39014.0	100.0
0°-180°	39014.0	100.0

Coefficient of Utilization



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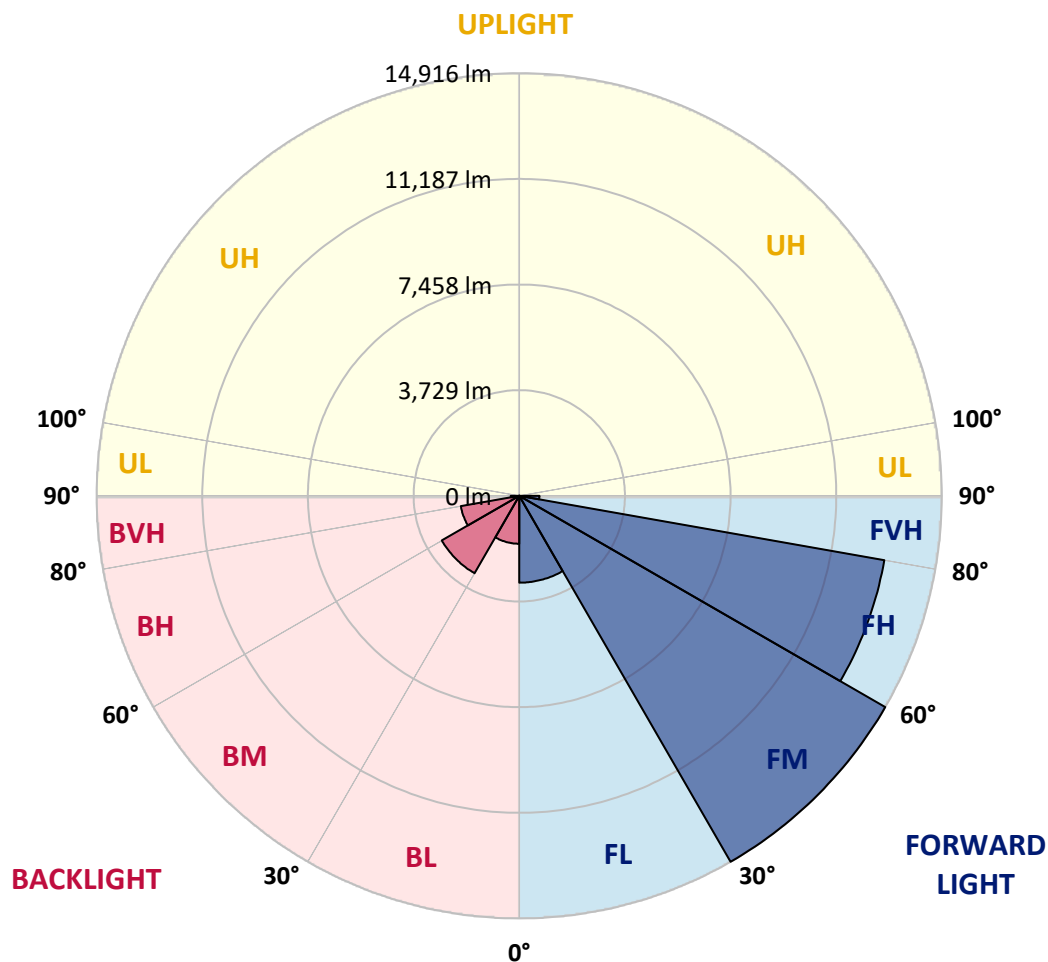
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3066.7	7.9			
FM	(30°-60°)	14915.5	38.2			
FH	(60°-80°)	13083.7	33.5			G5
FVH	(80°-90°)	710.7	1.8			G4/750
BL	(0°-30°)	1691.8	4.3	B3/2500		
BM	(30°-60°)	3154.8	8.1	B3/5000		
BH	(60°-80°)	2093.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	296.9	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°	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7
2.5°	5302.1	5294.1	5265.9	5265.9	5212.1	5166.5	5080.5	5022.7	4954.2	4930.0	4849.4
5°	5815.3	5818.0	5783.1	5758.9	5679.6	5582.9	5436.5	5303.5	5170.5	5116.8	4951.5
7.5°	6246.5	6241.1	6231.7	6211.6	6137.7	6038.3	5840.8	5643.4	5447.2	5366.6	5081.8
10°	6523.2	6535.3	6543.4	6552.8	6521.9	6450.7	6264.0	6023.5	5766.9	5656.8	5237.7
12.5°	6662.9	6684.4	6722.1	6786.5	6837.6	6829.5	6693.8	6438.6	6133.7	5995.3	5432.5
15°	6744.9	6773.1	6832.2	6947.7	7091.5	7173.4	7137.1	6906.1	6566.2	6395.6	5670.2
17.5°	6795.9	6818.8	6910.1	7064.6	7278.2	7495.8	7591.2	7397.8	7055.2	6860.4	5942.9
20°	6830.9	6848.3	6962.5	7143.9	7420.6	7767.2	8033.1	7984.8	7593.9	7341.3	6227.7
22.5°	6908.8	6923.6	7032.4	7215.1	7521.3	7968.7	8459.0	8531.5	8162.1	7876.0	6532.6
25°	7126.4	7126.4	7217.7	7345.4	7632.8	8143.3	8819.0	9140.1	8742.4	8409.3	6814.7
27.5°	7541.5	7537.5	7571.0	7615.4	7833.0	8320.6	9140.1	9677.4	9344.2	8980.2	7088.8
30°	8033.1	8060.0	8064.0	8042.6	8144.6	8542.3	9436.9	10244.3	9950.1	9557.8	7369.5
32.5°	8665.9	8683.3	8663.2	8592.0	8577.2	8856.6	9728.4	10838.0	10605.6	10161.0	7626.1
35°	9469.2	9435.6	9372.5	9227.4	9089.0	9277.1	10061.6	11431.8	11341.8	10890.4	7979.4
37.5°	10330.3	10331.6	10253.7	9924.6	9733.8	9814.4	10521.0	12104.8	12232.4	11758.2	8432.1
40°	11020.7	11057.0	11105.4	10672.8	10425.6	10537.1	11105.4	12885.3	13285.6	12787.2	9021.8
42.5°	11503.0	11544.6	11681.7	11410.3	11153.7	11360.6	11793.1	13718.1	14467.7	13974.7	9712.3
45°	12013.5	12036.3	12133.0	12016.1	11852.3	12318.4	12568.3	14580.6	15718.4	15240.1	10484.7
47.5°	12550.8	12575.0	12674.4	12596.5	12510.5	13213.1	13376.9	15393.3	16916.6	16630.5	11309.5
50°	13214.4	13230.5	13324.6	13183.5	13210.4	13887.4	14099.7	16138.8	18172.7	17879.8	12137.0
52.5°	14119.8	14123.8	14254.1	14126.5	14000.2	14381.8	14721.6	16841.4	19157.3	19019.0	12964.5
55°	14829.1	14872.1	15299.3	15272.4	15199.8	14830.4	15241.5	17510.4	20035.9	20101.7	13843.1
57.5°	14376.4	14544.3	15409.4	16019.3	16613.0	15946.7	15944.1	18264.0	20852.6	21164.3	14808.9
60°	12591.1	12819.5	14094.3	15447.0	17304.9	17889.2	17402.9	19184.2	21677.4	22217.4	16019.3
62.5°	8992.3	9368.4	11096.0	13256.0	16356.5	19176.1	20371.7	20644.4	22799.1	23437.2	17592.3
65°	4545.8	4830.6	6278.8	8880.8	13068.0	18335.2	23598.4	23841.5	24748.3	25315.2	20014.4
67.5°	2761.9	2869.4	3576.0	4939.4	8011.7	14282.3	24651.6	29170.5	28520.4	28821.3	23468.1
70°	2035.2	2114.4	2555.0	3280.4	4607.6	8381.1	21419.5	32973.5	32546.3	32512.8	26020.4
72°	1585.1	1642.9	2032.5	2650.4	3369.1	5028.1	15524.9	31569.7	33698.9	33529.7	25786.7
72.5°	1503.2	1554.2	1908.9	2494.6	3183.7	4557.9	13958.6	30622.7	33615.6	33539.1	25484.4
75°	1183.5	1219.7	1413.2	1929.0	2491.9	2585.9	7649.0	23731.4	29820.7	31060.6	22921.3
77.5°	979.3	984.7	1086.8	1403.8	1942.5	1828.3	3757.3	16465.3	21353.7	22717.2	16236.9
80°	797.9	804.7	853.0	984.7	1469.6	1352.7	1784.0	9467.8	11955.7	11970.5	7721.5
82.5°	635.4	636.7	690.5	720.0	1055.9	967.2	1022.3	4445.1	5224.2	5025.4	2775.3
85°	447.3	437.9	674.4	591.1	690.5	620.6	564.2	1759.8	2160.1	2066.1	869.1
87.5°	149.1	154.5	299.6	382.9	403.0	352.0	251.2	674.4	815.4	808.7	275.4
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°	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7	4799.7
2.5°	4823.9	4780.9	4717.8	4647.9	4592.9	4536.4	4494.8	4473.3	4449.1	4429.0	4453.2
5°	4875.0	4794.4	4660.0	4528.4	4431.7	4345.7	4283.9	4251.7	4222.1	4202.0	4204.6
7.5°	4958.3	4827.9	4602.3	4410.2	4275.8	4183.1	4120.0	4098.5	4079.7	4074.3	4081.1
10°	5046.9	4854.8	4525.7	4270.5	4117.3	4040.8	4012.5	4027.3	4040.8	4052.8	4066.3
12.5°	5147.7	4879.0	4414.2	4106.6	3976.3	3946.7	3974.9	4039.4	4086.4	4114.6	4132.1
15°	5279.3	4900.5	4285.2	3942.7	3855.4	3889.0	3984.3	4095.8	4177.8	4230.2	4238.2
17.5°	5400.2	4899.1	4120.0	3777.5	3757.3	3855.4	3999.1	4156.3	4266.4	4340.3	4355.1
20°	5525.1	4862.9	3927.9	3616.3	3657.9	3819.1	4005.8	4195.2	4328.2	4414.2	4434.4
22.5°	5642.0	4799.7	3717.0	3469.8	3574.6	3770.7	3980.3	4172.4	4305.4	4375.2	4396.7
25°	5721.3	4689.6	3503.4	3346.3	3500.7	3711.6	3897.0	4051.5	4150.9	4185.8	4191.2
27.5°	5761.6	4545.8	3301.9	3238.8	3424.2	3614.9	3742.5	3819.1	3847.3	3844.6	3839.3
30°	5766.9	4356.4	3128.6	3151.5	3335.5	3472.5	3533.0	3518.2	3481.9	3420.1	3425.5
32.5°	5749.5	4142.8	2983.5	3068.2	3222.7	3299.2	3301.9	3230.7	3134.0	3035.9	3009.1
35°	5754.9	3933.3	2855.9	2974.1	3085.6	3119.2	3088.3	2983.5	2851.9	2725.6	2698.8
37.5°	5814.0	3750.6	2745.8	2865.3	2933.8	2941.9	2897.6	2787.4	2690.7	2567.1	2556.4
40°	5955.0	3620.3	2641.0	2743.1	2782.0	2786.1	2722.9	2645.0	2653.1	2587.3	2585.9
42.5°	6208.9	3563.9	2548.3	2615.5	2639.7	2647.7	2599.4	2549.7	2619.5	2576.5	2561.7
45°	6536.7	3577.3	2470.4	2490.5	2534.9	2572.5	2542.9	2482.5	2509.4	2322.6	2260.8
47.5°	6915.5	3663.3	2408.6	2383.1	2459.6	2530.8	2485.2	2393.8	2298.4	2113.1	2078.1
50°	7358.8	3796.3	2352.2	2277.0	2377.7	2474.4	2428.8	2298.4	2154.7	2064.7	2052.6
52.5°	7820.9	3958.8	2295.8	2160.1	2274.3	2431.4	2408.6	2277.0	2099.6	2011.0	1994.9
55°	8344.8	4122.7	2224.6	2024.4	2162.8	2411.3	2399.2	2199.0	2058.0	2008.3	1996.2
57.5°	8996.3	4309.4	2130.5	1883.4	2058.0	2338.7	2301.1	2152.0	2015.0	1977.4	1973.4
60°	9845.3	4584.8	1994.9	1732.9	1930.4	2227.3	2219.2	2083.5	1946.5	1919.6	1914.3
62.5°	11118.8	5040.2	1808.1	1582.4	1788.0	2037.8	2111.7	1990.8	1874.0	1872.6	1875.3
65°	13093.5	5725.3	1605.3	1450.8	1644.2	1878.0	1986.8	1895.4	1800.1	1826.9	1831.0
67.5°	15382.5	6293.5	1406.5	1321.8	1497.8	1726.2	1874.0	1800.1	1702.0	1771.9	1773.2
70°	16144.2	5785.7	1231.8	1194.2	1346.0	1579.8	1751.7	1695.3	1595.9	1665.7	1659.0
72°	15023.9	4670.8	1119.0	1097.5	1231.8	1458.9	1642.9	1597.2	1499.2	1546.2	1528.7
72.5°	14670.6	4453.2	1090.8	1073.3	1200.9	1428.0	1614.7	1573.0	1475.0	1515.3	1499.2
75°	13086.8	3867.5	937.6	941.7	1047.8	1277.5	1456.2	1442.7	1342.0	1346.0	1340.6
77.5°	9492.0	2835.8	789.9	816.7	892.0	1123.0	1296.3	1288.3	1178.1	1158.0	1153.9
80°	4404.8	1446.8	643.5	655.5	733.5	939.0	1105.6	1094.8	1006.2	980.6	965.9
82.5°	1508.6	687.8	483.6	491.7	568.2	756.3	959.1	952.4	878.5	828.8	797.9
85°	538.7	342.6	338.5	330.5	405.7	595.1	835.6	799.3	690.5	588.4	585.7
87.5°	174.6	146.4	174.6	173.3	236.4	403.0	607.2	517.2	501.1	416.4	408.4
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)