

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: P318221

Luminaire Tested: **GAN-SA7D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318221
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-SA7D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39591 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

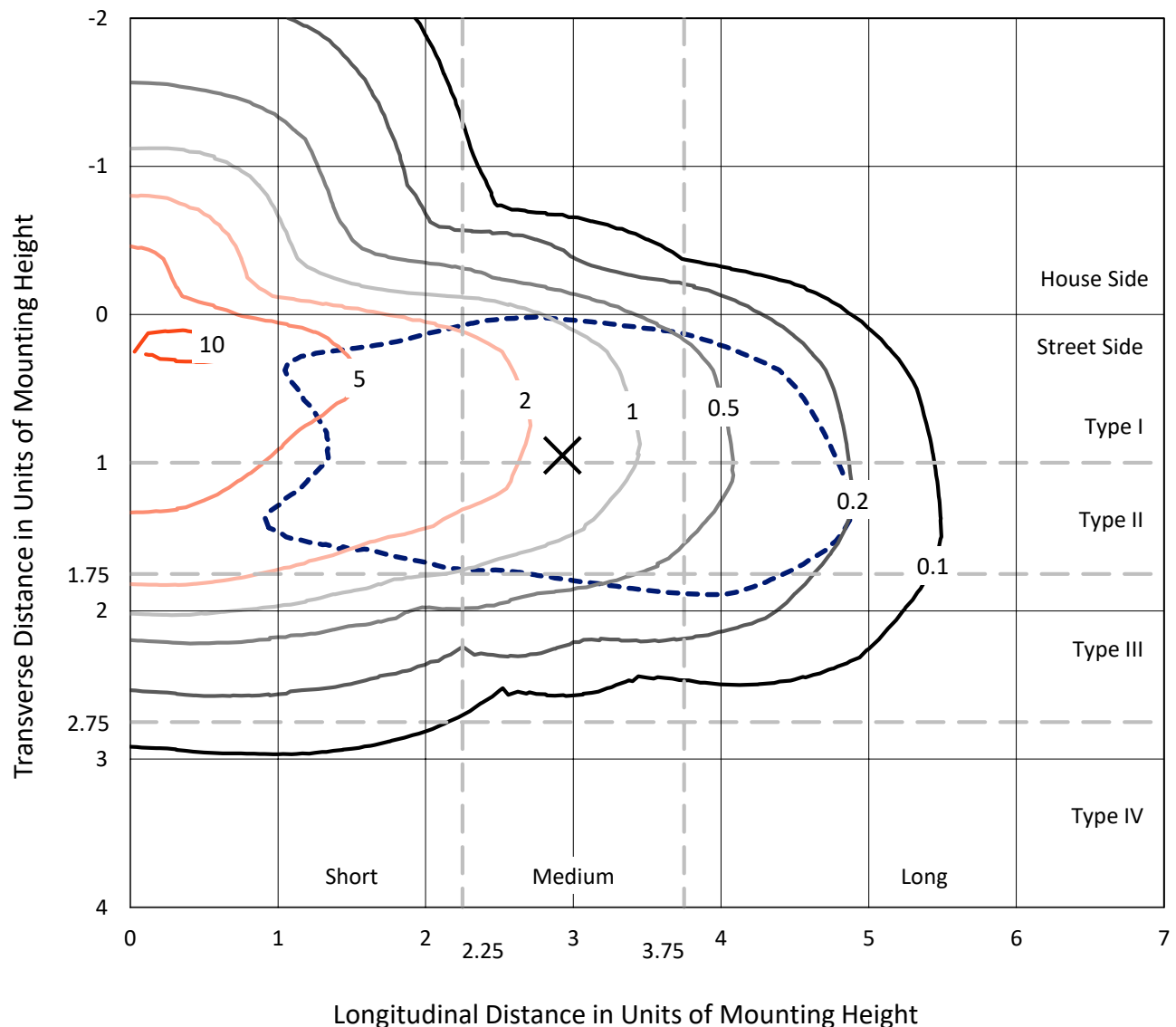
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

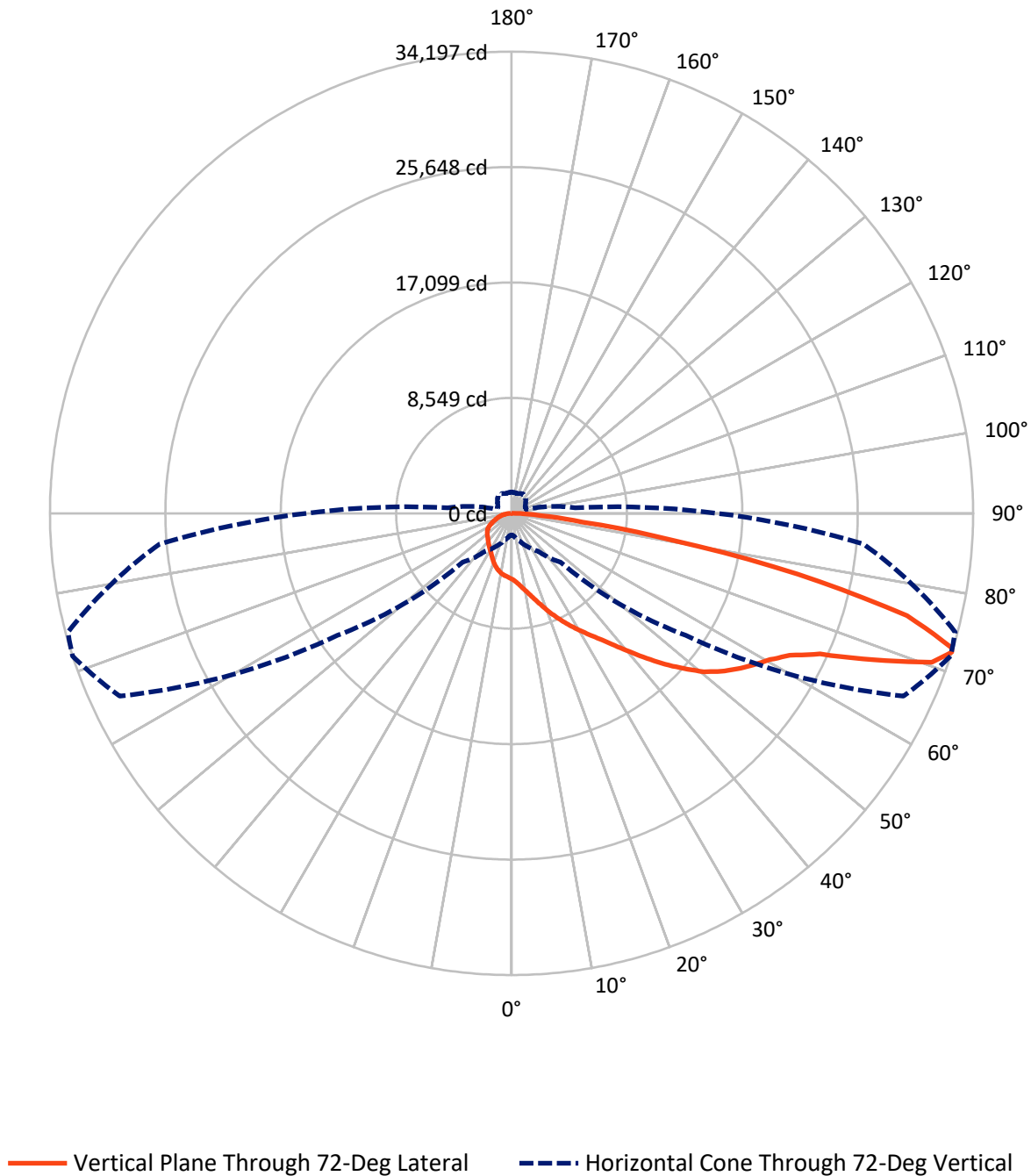
✕ Max cd
 - - - 1/2 Max cd



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	7344.4	0.0	7344.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32246.6	0.0	32246.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	39591.0	0.0	39591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	1.2
10°-20°	1577.2	4.0
20°-30°	2763.7	7.0
30°-40°	4097.7	10.4
40°-50°	5993.2	15.1
50°-60°	8246.6	20.8
60°-70°	9181.0	23.2
70°-80°	6221.0	15.7
80°-90°	1022.5	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°	39591.0	100.0
0°-180°	39591.0	100.0

Coefficient of Utilization



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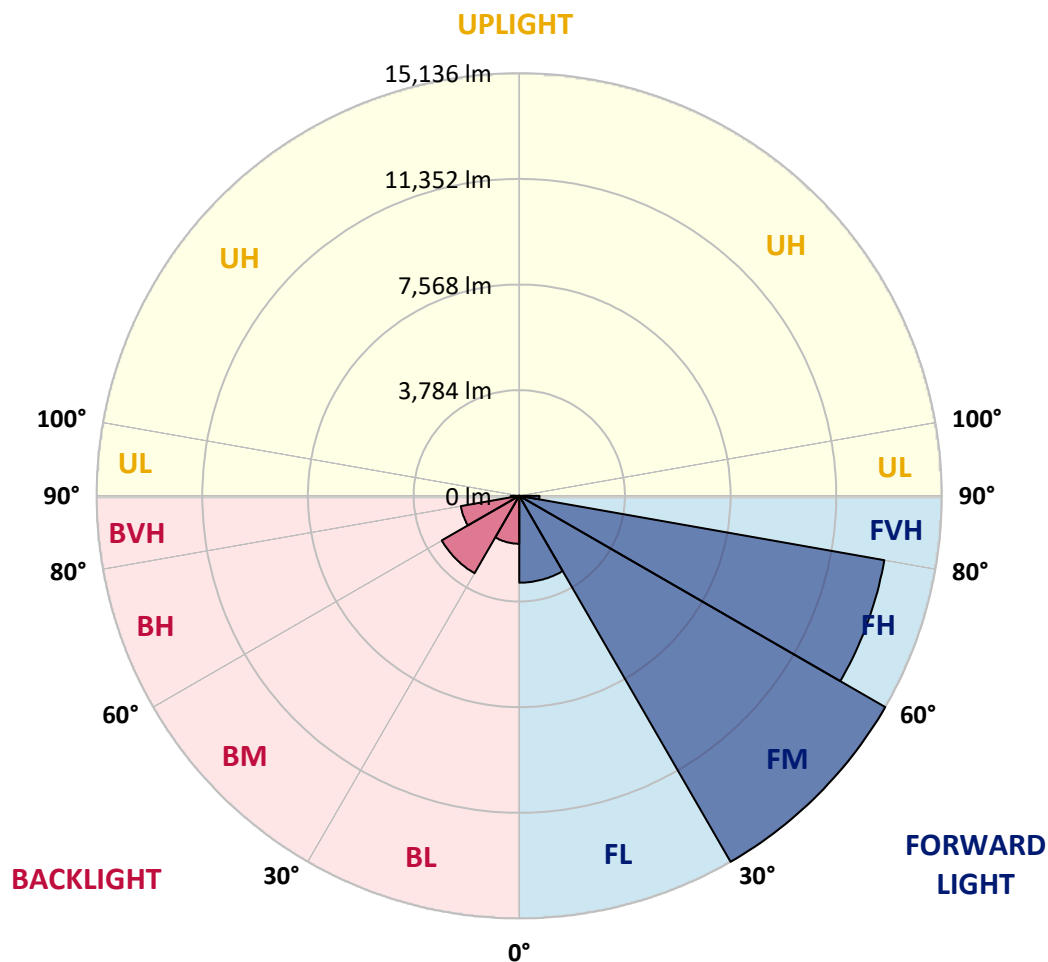
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3112.1	7.9			
FM	(30°-60°)	15136.1	38.2			
FH	(60°-80°)	13277.1	33.5			G5
FVH	(80°-90°)	721.2	1.8			G4/750
BL	(0°-30°)	1716.9	4.3	B3/2500		
BM	(30°-60°)	3201.5	8.1	B3/5000		
BH	(60°-80°)	2124.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	301.2	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°	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7
2.5°	5380.6	5372.4	5343.8	5343.8	5289.2	5242.9	5155.6	5097.0	5027.5	5003.0	4921.2
5°	5901.3	5904.0	5868.6	5844.1	5763.6	5665.5	5516.9	5381.9	5247.0	5192.4	5024.8
7.5°	6338.9	6333.4	6323.9	6303.5	6228.5	6127.6	5927.2	5726.8	5527.8	5446.0	5157.0
10°	6619.7	6632.0	6640.2	6649.7	6618.4	6546.1	6356.6	6112.6	5852.2	5740.4	5315.1
12.5°	6761.5	6783.3	6821.5	6886.9	6938.7	6930.5	6792.8	6533.8	6224.4	6084.0	5512.8
15°	6844.6	6873.3	6933.3	7050.5	7196.4	7279.5	7242.7	7008.2	6663.3	6490.2	5754.1
17.5°	6896.4	6919.6	7012.3	7169.1	7385.8	7606.7	7703.5	7507.2	7159.5	6961.9	6030.8
20°	6931.9	6949.6	7065.5	7249.5	7530.3	7882.0	8152.0	8102.9	7706.2	7449.9	6319.8
22.5°	7011.0	7026.0	7136.4	7321.8	7632.6	8086.5	8584.1	8657.7	8282.8	7992.5	6629.3
25°	7231.8	7231.8	7324.5	7454.0	7745.7	8263.7	8949.4	9275.2	8871.7	8533.7	6915.5
27.5°	7653.0	7648.9	7683.0	7728.0	7948.8	8443.7	9275.2	9820.5	9482.4	9113.0	7193.6
30°	8152.0	8179.2	8183.3	8161.5	8265.1	8668.6	9576.5	10395.8	10097.2	9699.2	7478.5
32.5°	8794.0	8811.7	8791.3	8719.0	8704.1	8987.6	9872.3	10998.3	10762.5	10311.3	7738.9
35°	9609.2	9575.1	9511.1	9363.8	9223.4	9414.3	10210.4	11600.9	11509.5	11051.5	8097.4
37.5°	10483.0	10484.4	10405.3	10071.3	9877.8	9959.6	10676.6	12283.8	12413.3	11932.1	8556.8
40°	11183.7	11220.5	11269.6	10830.7	10579.8	10693.0	11269.6	13075.8	13482.1	12976.3	9155.3
42.5°	11673.1	11715.4	11854.4	11579.0	11318.7	11528.6	11967.6	13921.0	14681.7	14181.4	9856.0
45°	12191.1	12214.3	12312.5	12193.9	12027.5	12500.6	12754.1	14796.2	15950.8	15465.5	10639.8
47.5°	12736.4	12760.9	12861.8	12782.8	12695.5	13408.5	13574.8	15620.9	17166.8	16876.5	11476.8
50°	13409.8	13426.2	13521.6	13378.5	13405.7	14092.8	14308.2	16377.5	18441.4	18144.2	12316.5
52.5°	14328.6	14332.7	14465.0	14335.4	14207.3	14594.5	14939.3	17090.5	19440.6	19300.2	13156.3
55°	15048.4	15092.0	15525.5	15498.3	15424.6	15049.8	15466.9	17769.4	20332.2	20399.0	14047.8
57.5°	14589.0	14759.4	15637.3	16256.2	16858.7	16182.6	16179.9	18534.1	21161.0	21477.3	15028.0
60°	12777.3	13009.1	14302.7	15675.5	17560.8	18153.8	17660.3	19467.9	21998.0	22546.0	16256.2
62.5°	9125.3	9507.0	11260.1	13452.1	16598.4	19459.7	20673.0	20949.7	23136.3	23783.8	17852.5
65°	4613.1	4902.1	6371.6	9012.1	13261.2	18606.4	23947.4	24194.1	25114.3	25689.6	20310.4
67.5°	2802.7	2911.8	3628.8	5012.5	8130.1	14493.6	25016.1	29602.0	28942.2	29247.5	23815.2
70°	2065.3	2145.7	2592.8	3328.9	4675.8	8505.0	21736.3	33461.2	33027.7	32993.6	26405.3
72°	1608.6	1667.2	2062.5	2689.6	3418.9	5102.5	15754.5	32036.6	34197.3	34025.6	26168.1
72.5°	1525.4	1577.2	1937.1	2531.5	3230.8	4625.3	14165.0	31075.6	34112.8	34035.1	25861.3
75°	1201.0	1237.8	1434.1	1957.6	2528.7	2624.2	7762.1	24082.4	30261.8	31520.0	23260.3
77.5°	993.8	999.2	1102.8	1424.5	1971.2	1855.3	3812.9	16708.8	21669.5	23053.1	16477.0
80°	809.7	816.6	865.6	999.2	1491.3	1372.7	1810.3	9607.9	12132.5	12147.5	7835.7
82.5°	644.8	646.2	700.7	730.7	1071.5	981.5	1037.4	4510.8	5301.5	5099.7	2816.4
85°	453.9	444.4	684.3	599.8	700.7	629.8	572.5	1785.8	2192.0	2096.6	882.0
87.5°	151.3	156.8	304.0	388.5	409.0	357.2	254.9	684.3	827.5	820.6	279.5
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°	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7	4870.7
2.5°	4895.3	4851.6	4787.6	4716.7	4660.8	4603.5	4561.3	4539.5	4514.9	4494.5	4519.0
5°	4947.1	4865.3	4729.0	4595.4	4497.2	4410.0	4347.3	4314.5	4284.5	4264.1	4266.8
7.5°	5031.6	4899.4	4670.3	4475.4	4339.1	4245.0	4180.9	4159.1	4140.0	4134.6	4141.4
10°	5121.6	4926.6	4592.6	4333.6	4178.2	4100.5	4071.9	4086.9	4100.5	4112.8	4126.4
12.5°	5223.8	4951.2	4479.5	4167.3	4035.1	4005.1	4033.7	4099.2	4146.9	4175.5	4193.2
15°	5357.4	4973.0	4348.6	4001.0	3912.4	3946.5	4043.3	4156.4	4239.6	4292.7	4300.9
17.5°	5480.1	4971.6	4180.9	3833.3	3812.9	3912.4	4058.3	4217.8	4329.5	4404.5	4419.5
20°	5606.9	4934.8	3986.0	3669.7	3712.0	3875.6	4065.1	4257.3	4392.2	4479.5	4499.9
22.5°	5725.5	4870.7	3772.0	3521.2	3627.5	3826.5	4039.2	4234.1	4369.1	4440.0	4461.8
25°	5805.9	4758.9	3555.2	3395.7	3552.5	3766.5	3954.7	4111.4	4212.3	4247.7	4253.2
27.5°	5846.8	4613.1	3350.8	3286.7	3474.8	3668.4	3797.9	3875.6	3904.2	3901.5	3896.0
30°	5852.2	4420.9	3174.9	3198.1	3384.8	3523.9	3585.2	3570.2	3533.4	3470.7	3476.2
32.5°	5834.5	4204.1	3027.7	3113.6	3270.3	3348.0	3350.8	3278.5	3180.4	3080.8	3053.6
35°	5840.0	3991.5	2898.2	3018.1	3131.3	3165.4	3134.0	3027.7	2894.1	2765.9	2738.7
37.5°	5899.9	3806.1	2786.4	2907.7	2977.2	2985.4	2940.4	2828.6	2730.5	2605.1	2594.2
40°	6043.1	3673.8	2680.1	2783.7	2823.2	2827.3	2763.2	2684.1	2692.3	2625.5	2624.2
42.5°	6300.7	3616.6	2586.0	2654.2	2678.7	2686.9	2637.8	2587.4	2658.2	2614.6	2599.6
45°	6633.3	3630.2	2506.9	2527.4	2572.4	2610.5	2580.5	2519.2	2546.5	2357.0	2294.3
47.5°	7017.8	3717.5	2444.2	2418.3	2496.0	2568.3	2521.9	2429.2	2332.4	2144.3	2108.9
50°	7467.6	3852.4	2387.0	2310.6	2412.9	2511.0	2464.7	2332.4	2186.6	2095.2	2083.0
52.5°	7936.6	4017.4	2329.7	2192.0	2307.9	2467.4	2444.2	2310.6	2130.7	2040.7	2024.4
55°	8468.2	4183.7	2257.5	2054.3	2194.8	2447.0	2434.7	2231.6	2088.4	2038.0	2025.7
57.5°	9129.4	4373.2	2162.0	1911.2	2088.4	2373.3	2335.2	2183.9	2044.8	2006.6	2002.5
60°	9990.9	4652.6	2024.4	1758.5	1958.9	2260.2	2252.0	2114.3	1975.3	1948.0	1942.6
62.5°	11283.2	5114.7	1834.9	1605.9	1814.4	2068.0	2143.0	2020.3	1901.7	1900.3	1903.0
65°	13287.1	5810.0	1629.0	1472.3	1668.6	1905.8	2016.2	1923.5	1826.7	1854.0	1858.0
67.5°	15610.0	6386.6	1427.3	1341.4	1520.0	1751.7	1901.7	1826.7	1727.2	1798.1	1799.4
70°	16383.0	5871.3	1250.1	1211.9	1365.9	1603.1	1777.6	1720.4	1619.5	1690.4	1683.6
72°	15246.1	4739.9	1135.5	1113.7	1250.1	1480.4	1667.2	1620.8	1521.3	1569.0	1551.3
72.5°	14887.5	4519.0	1106.9	1089.2	1218.7	1449.1	1638.6	1596.3	1496.8	1537.7	1521.3
75°	13280.3	3924.7	951.5	955.6	1063.3	1296.4	1477.7	1464.1	1361.8	1365.9	1360.5
77.5°	9632.4	2877.7	801.6	828.8	905.2	1139.6	1315.5	1307.3	1195.5	1175.1	1171.0
80°	4469.9	1468.2	653.0	665.2	744.3	952.9	1121.9	1111.0	1021.0	995.1	980.1
82.5°	1530.9	698.0	490.8	498.9	576.6	767.5	973.3	966.5	891.5	841.1	809.7
85°	546.6	347.6	343.5	335.3	411.7	603.9	847.9	811.1	700.7	597.1	594.4
87.5°	177.2	148.6	177.2	175.9	239.9	409.0	616.2	524.8	508.5	422.6	414.4
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)