

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: P318510

Luminaire Tested: **GAN-SA6A-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20494 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

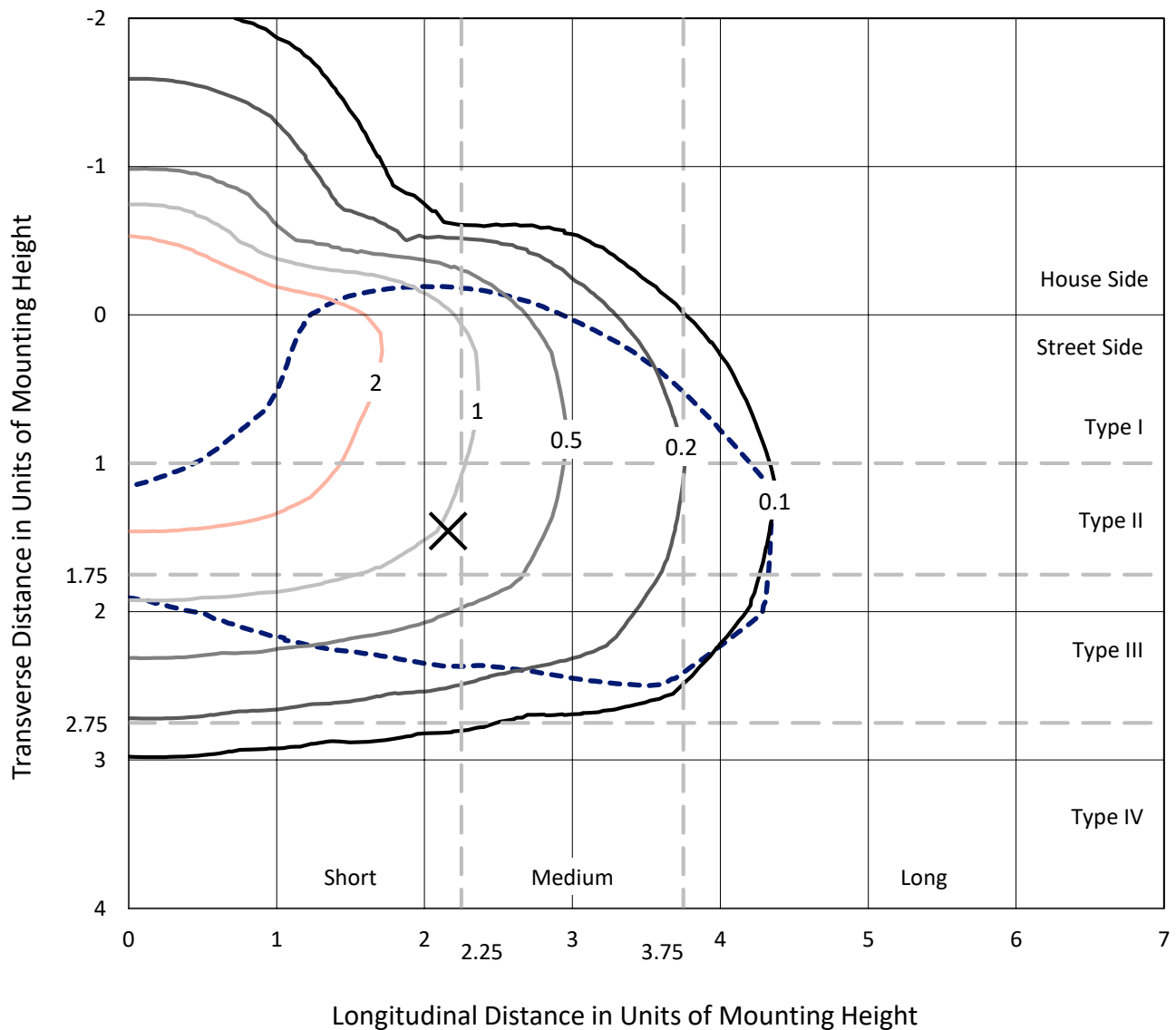
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318510
 CATALOG NUMBER: GAN-SA6A-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

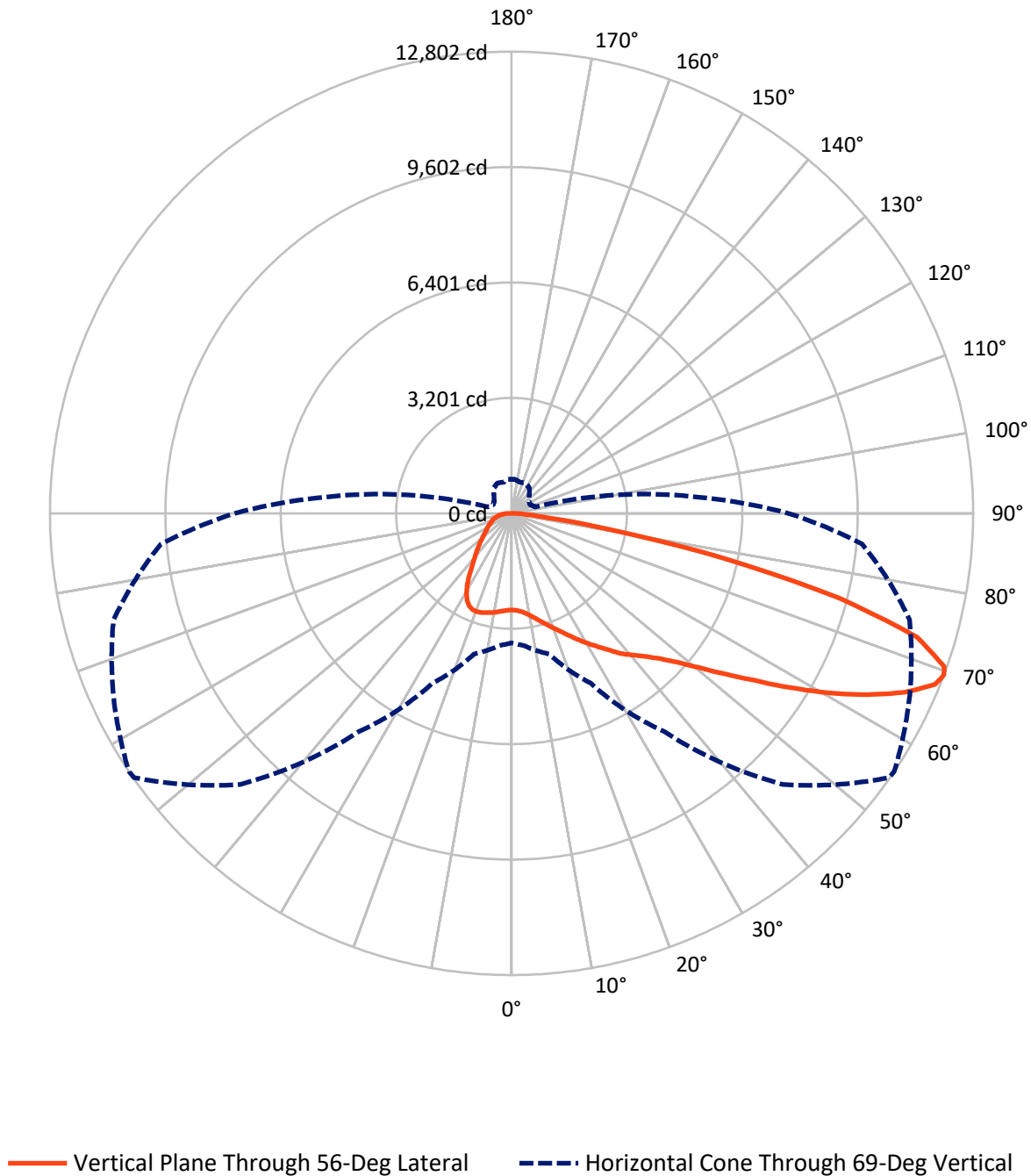
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P318510
CATALOG NUMBER: GAN-SA6A-827-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4564.0	0.0	4564.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	15930.0	0.0	15930.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	20494.0	0.0	20494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.3
10°-20°	846.2	4.1
20°-30°	1477.1	7.2
30°-40°	2121.8	10.4
40°-50°	2936.5	14.3
50°-60°	4302.3	21.0
60°-70°	5245.4	25.6
70°-80°	2900.0	14.2
80°-90°	401.6	2.0
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°	20494.0	100.0
0°-180°	20494.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318510

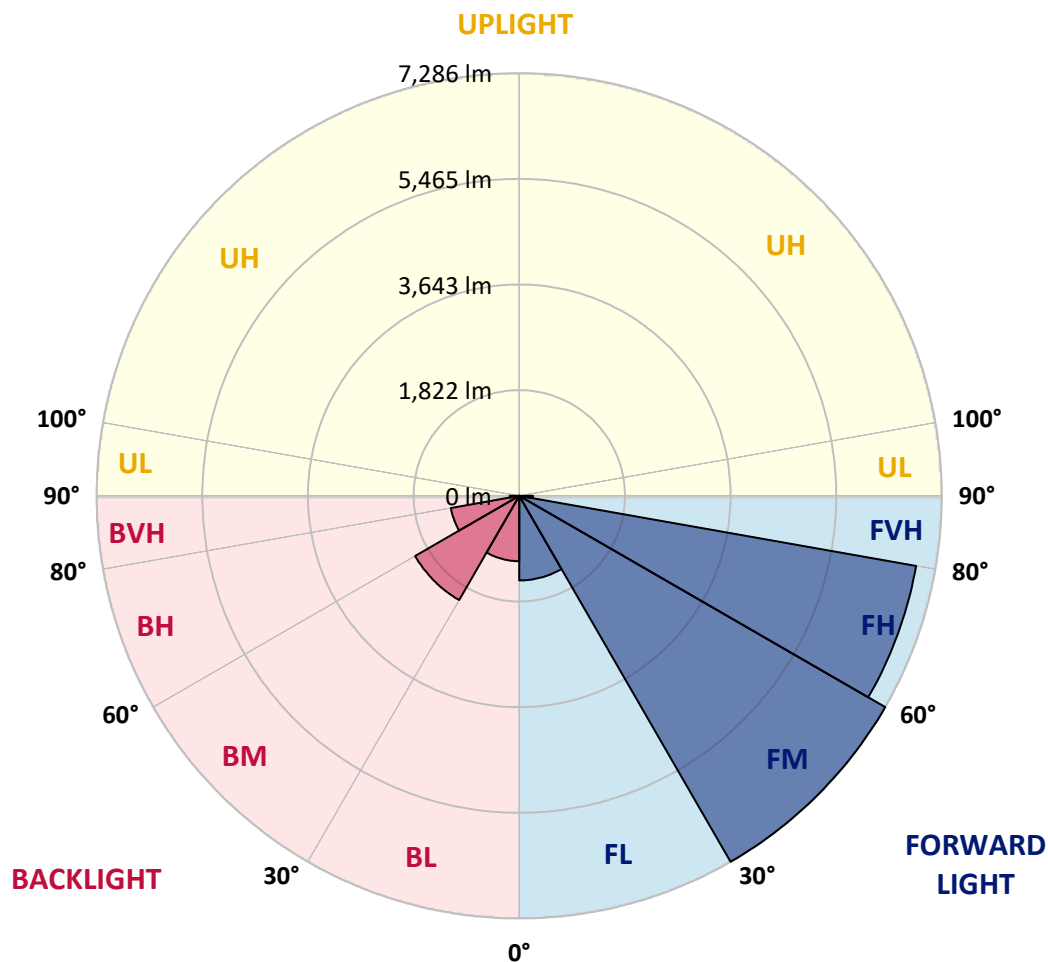
CATALOG NUMBER: GAN-SA6A-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.6	7.1			
FM	(30°-60°)	7286.4	35.6			
FH	(60°-80°)	6948.5	33.9			G3/7500
FVH	(80°-90°)	236.6	1.2			G3/500
BL	(0°-30°)	1127.9	5.5	B3/2500		
BM	(30°-60°)	2074.2	10.1	B2/2500		
BH	(60°-80°)	1196.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	165.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P318510

CATALOG NUMBER: GAN-SA6A-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3
2.5°	2696.2	2699.1	2696.9	2702.6	2696.2	2700.5	2696.9	2696.9	2694.8	2688.5	2681.4
5°	2738.6	2744.2	2740.7	2746.4	2738.6	2740.0	2733.6	2733.6	2727.3	2713.9	2699.8
7.5°	2805.0	2811.3	2808.5	2814.1	2803.5	2803.5	2795.1	2794.4	2781.7	2759.8	2743.5
10°	2884.0	2892.5	2889.7	2898.1	2889.7	2892.5	2884.0	2884.0	2867.1	2836.0	2815.5
12.5°	2999.1	3009.7	3001.9	3001.2	2997.7	3003.3	2996.3	2994.9	2979.3	2937.0	2908.7
15°	3153.0	3164.3	3148.1	3146.7	3126.9	3124.8	3124.8	3122.7	3112.8	3061.9	3015.3
17.5°	3330.2	3333.7	3319.6	3297.0	3271.6	3255.4	3253.3	3258.9	3258.9	3199.6	3125.5
20°	3503.9	3510.2	3499.0	3473.5	3441.1	3417.1	3400.1	3411.4	3410.7	3340.1	3234.9
22.5°	3693.1	3707.9	3691.0	3658.5	3620.4	3593.6	3563.9	3573.8	3574.5	3487.7	3342.2
25°	3938.1	3924.7	3914.1	3868.2	3813.8	3786.3	3758.8	3768.6	3765.8	3646.5	3453.1
27.5°	4154.8	4157.7	4143.5	4094.8	4032.0	3971.3	3969.9	3976.2	3965.6	3811.7	3557.5
30°	4406.9	4408.3	4388.5	4344.7	4276.3	4197.9	4179.5	4190.1	4167.5	3968.4	3667.7
32.5°	4657.5	4664.6	4642.7	4589.7	4534.7	4439.3	4402.6	4409.7	4353.2	4128.7	3781.4
35°	4877.1	4887.0	4879.9	4844.6	4784.6	4702.7	4658.9	4654.7	4584.8	4325.0	3931.7
37.5°	5100.9	5110.1	5102.3	5072.6	5048.6	4961.8	4938.5	4938.5	4817.1	4525.5	4123.1
40°	5331.0	5345.1	5336.0	5295.0	5274.5	5235.0	5179.2	5165.8	5034.5	4766.2	4435.1
42.5°	5544.9	5563.3	5600.0	5576.0	5534.4	5540.0	5427.8	5420.7	5324.7	5122.1	4826.9
45°	5848.5	5875.4	5937.5	5919.1	5910.7	5879.6	5746.2	5739.8	5703.1	5600.7	5313.4
47.5°	6179.6	6216.4	6328.6	6332.1	6423.2	6364.6	6183.2	6161.3	6169.8	6174.0	5907.1
50°	6484.6	6524.9	6709.1	6796.0	7010.6	7023.3	6733.2	6713.4	6746.6	6844.0	6599.0
52.5°	6728.2	6779.0	7009.2	7277.5	7645.3	7749.8	7410.2	7395.4	7420.1	7588.1	7381.3
55°	6906.8	6961.9	7212.5	7701.1	8288.5	8472.7	8189.6	8175.5	8191.0	8405.0	8232.0
57.5°	6948.5	6961.9	7325.5	7986.3	8831.4	9274.1	9143.4	9115.2	9039.0	9225.3	9171.0
60°	6752.9	6806.6	7232.3	8086.6	9251.5	10064.1	10140.3	10105.0	9891.1	10043.6	9999.8
62.5°	6356.1	6452.2	6884.2	7934.1	9416.0	10709.4	11118.1	11075.8	10707.2	10806.1	10595.7
65°	5708.0	5749.0	6202.9	7408.1	9207.0	11122.4	11990.1	11968.9	11505.0	11350.4	10705.8
67.5°	4548.8	4625.7	5011.2	6308.8	8352.0	11073.7	12664.3	12662.2	12026.1	11552.3	10315.4
69°	3593.6	3673.3	4040.5	5196.9	7390.4	10628.2	12777.2	12802.0	12172.9	11429.5	9757.7
70°	2865.0	2957.4	3209.5	4377.2	6536.9	10040.8	12683.3	12727.8	12144.7	11226.9	9243.0
72.5°	1219.3	1294.1	1473.4	2256.4	3984.0	7497.8	11596.8	11764.8	11490.2	10275.2	7639.0
75°	532.3	555.6	636.8	919.9	1768.5	4080.7	9084.8	9395.5	9824.7	8685.3	5690.4
77.5°	389.7	399.6	444.1	540.1	793.5	1541.2	5842.2	6022.9	7085.4	6320.1	3490.5
80°	301.5	308.5	343.1	396.8	518.2	623.4	2664.5	2819.8	3984.0	3246.2	1453.7
82.5°	240.0	245.0	269.0	292.3	357.9	377.7	884.6	981.3	1470.6	896.6	384.8
85°	223.1	228.7	237.2	213.2	229.5	221.7	382.7	400.3	444.1	352.3	161.0
87.5°	101.0	119.3	235.1	165.9	122.1	97.4	156.7	163.8	184.3	185.0	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318510

CATALOG NUMBER: GAN-SA6A-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3
2.5°	2685.6	2683.5	2687.0	2678.6	2689.2	2688.5	2684.9	2686.3	2693.4	2692.7	2693.4
5°	2701.9	2700.5	2704.7	2698.3	2711.1	2715.3	2716.0	2722.3	2730.1	2732.2	2732.2
7.5°	2742.8	2742.8	2744.9	2736.5	2744.9	2744.2	2740.7	2747.1	2754.8	2755.5	2754.8
10°	2813.4	2814.1	2810.6	2788.7	2781.7	2762.6	2744.9	2745.6	2755.5	2763.3	2765.4
12.5°	2902.4	2899.6	2884.0	2843.8	2814.1	2775.3	2756.9	2756.2	2766.1	2772.5	2774.6
15°	3004.0	2996.3	2956.0	2890.4	2838.1	2800.0	2770.4	2763.3	2757.6	2750.6	2751.3
17.5°	3100.1	3082.4	3015.3	2924.3	2869.2	2818.4	2761.2	2715.3	2683.5	2665.2	2659.5
20°	3197.5	3162.9	3066.2	2956.0	2886.1	2793.7	2683.5	2590.3	2532.4	2505.6	2500.7
22.5°	3286.4	3230.7	3113.5	2989.2	2872.7	2710.3	2537.4	2401.8	2321.3	2285.3	2288.2
25°	3373.3	3295.6	3162.9	3012.5	2805.0	2563.5	2334.0	2167.4	2074.2	2034.0	2032.6
27.5°	3449.5	3361.3	3216.6	2993.5	2678.6	2354.5	2093.3	1930.9	1853.3	1818.7	1813.0
30°	3537.1	3443.9	3287.9	2920.7	2493.6	2113.1	1858.2	1743.8	1688.8	1654.2	1647.8
32.5°	3643.7	3556.1	3346.5	2788.7	2257.1	1861.0	1674.6	1594.9	1544.7	1505.9	1498.8
35°	3799.0	3704.4	3361.3	2599.5	1997.3	1661.9	1539.8	1457.9	1390.1	1340.0	1335.1
37.5°	3993.9	3890.1	3327.4	2354.5	1745.2	1532.7	1427.5	1326.6	1238.3	1167.7	1156.4
40°	4274.8	4118.1	3233.5	2072.1	1559.6	1433.2	1318.1	1203.0	1093.6	1011.0	994.8
42.5°	4612.3	4385.7	3089.5	1791.1	1423.3	1332.2	1209.4	1066.8	962.3	903.7	895.2
45°	5041.6	4663.9	2889.7	1545.4	1289.2	1231.3	1092.2	960.9	895.9	852.9	845.8
47.5°	5531.5	4975.9	2680.0	1345.6	1175.5	1136.7	998.3	913.6	862.0	828.1	821.8
50°	6133.8	5328.2	2457.6	1181.8	1061.1	1023.0	953.8	887.4	846.5	820.4	814.0
52.5°	6812.9	5725.7	2297.3	1052.7	966.5	939.0	930.5	873.3	840.1	820.4	814.0
55°	7544.3	6130.2	2124.4	943.9	884.6	892.4	915.0	874.7	852.1	828.1	819.0
57.5°	8276.5	6548.2	1931.6	852.1	819.7	857.8	904.4	877.6	858.5	835.2	826.7
60°	8855.4	6812.9	1633.0	775.2	768.1	819.7	879.0	856.4	831.7	832.4	831.0
62.5°	9125.8	6798.8	1303.3	706.7	716.6	768.1	838.0	823.2	802.7	830.3	832.4
65°	8974.0	6459.9	1014.5	644.6	661.5	714.5	795.7	807.0	814.0	867.0	874.0
67.5°	8337.2	5800.5	785.8	590.2	611.4	677.8	799.9	879.0	888.2	943.9	943.2
69°	7678.5	5182.1	682.7	562.0	586.7	686.9	855.0	924.9	890.3	949.6	941.1
70°	7126.4	4692.8	627.6	542.9	575.4	703.2	891.7	924.2	879.7	930.5	916.4
72.5°	5488.5	3376.1	532.3	507.6	537.3	672.8	902.3	903.7	855.0	864.9	840.8
75°	3764.4	2133.5	464.6	459.6	479.4	606.5	868.4	863.4	790.7	776.6	756.8
77.5°	2075.6	1083.7	394.7	413.7	427.1	537.3	789.3	782.3	722.2	692.6	685.5
80°	800.6	474.4	333.2	367.8	376.3	465.3	691.9	685.5	635.4	597.3	586.7
82.5°	302.2	248.5	275.3	318.4	315.6	384.1	586.0	582.5	533.7	478.0	461.0
85°	139.8	149.0	218.2	262.6	242.2	284.5	468.8	475.1	415.8	349.5	349.5
87.5°	59.3	83.3	154.6	198.4	163.1	192.0	343.8	328.3	301.5	209.0	196.3
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)