

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: P318549

Luminaire Tested: **GAN-SA5A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318549
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-SA5A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18512 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

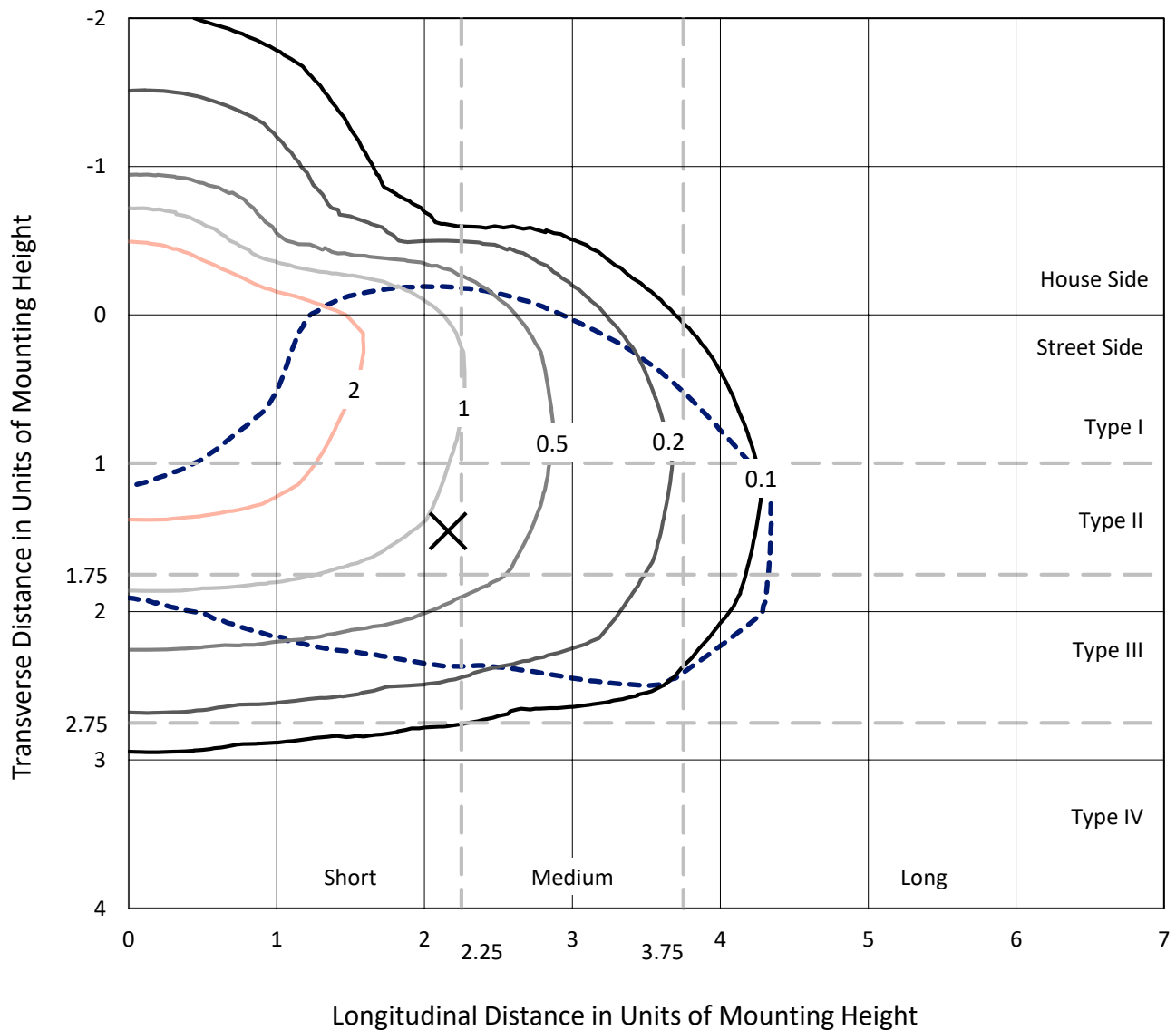
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

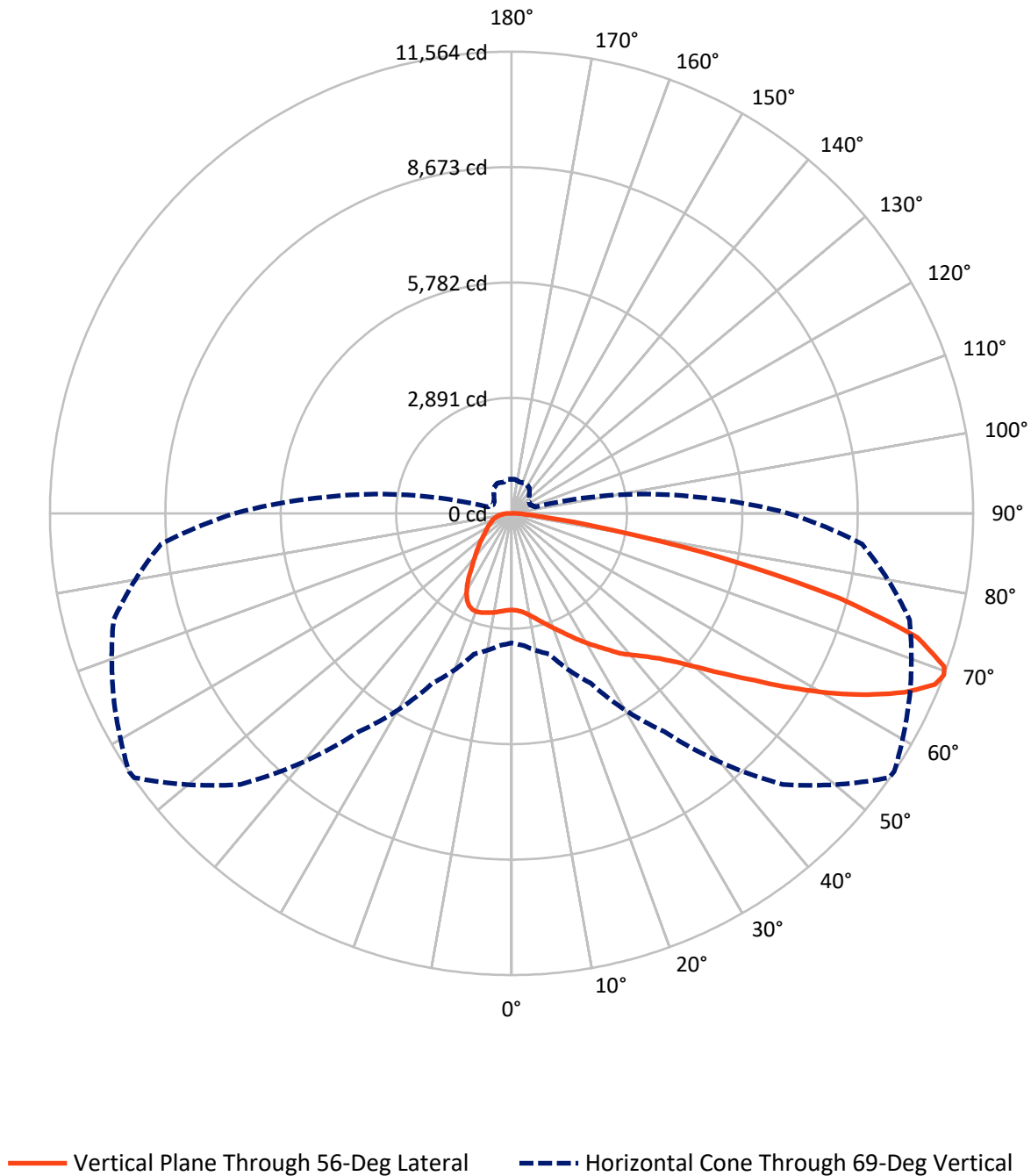
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4122.6	0.0	4122.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14389.4	0.0	14389.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	18512.0	0.0	18512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	1.3
10°-20°	764.3	4.1
20°-30°	1334.2	7.2
30°-40°	1916.6	10.4
40°-50°	2652.5	14.3
50°-60°	3886.2	21.0
60°-70°	4738.1	25.6
70°-80°	2619.5	14.2
80°-90°	362.8	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°	18512.0	100.0
0°-180°	18512.0	100.0

Coefficient of Utilization



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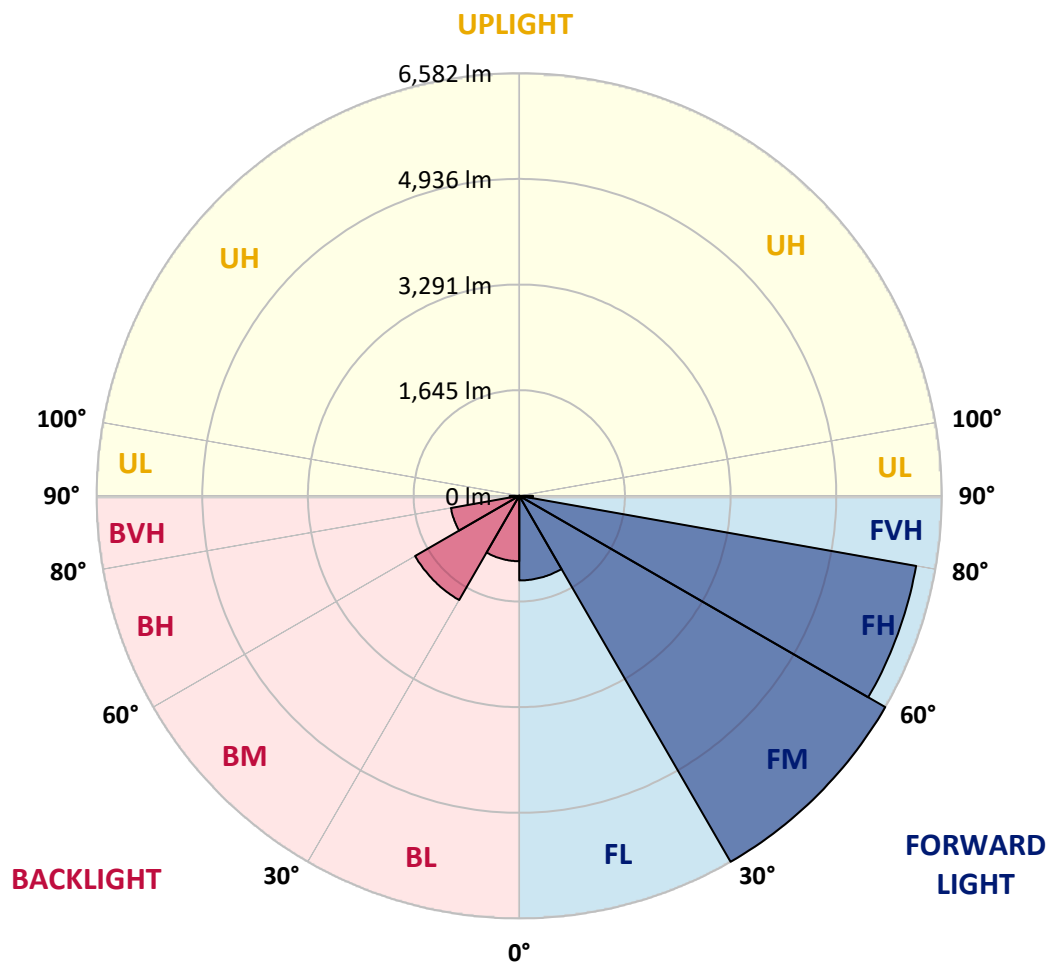
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1317.5	7.1			
FM	(30°-60°)	6581.7	35.6			
FH	(60°-80°)	6276.5	33.9			G3/7500
FVH	(80°-90°)	213.7	1.2			G2/225
BL	(0°-30°)	1018.8	5.5	B3/2500		
BM	(30°-60°)	1873.6	10.1	B2/2500		
BH	(60°-80°)	1081.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	149.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2435.5	2438.0	2436.1	2441.2	2435.5	2439.3	2436.1	2436.1	2434.2	2428.5	2422.1
5°	2473.7	2478.8	2475.6	2480.7	2473.7	2475.0	2469.3	2469.3	2463.5	2451.4	2438.7
7.5°	2533.7	2539.4	2536.9	2542.0	2532.4	2532.4	2524.8	2524.1	2512.6	2492.9	2478.2
10°	2605.1	2612.8	2610.2	2617.9	2610.2	2612.8	2605.1	2605.1	2589.8	2561.7	2543.2
12.5°	2709.1	2718.6	2711.6	2711.0	2707.8	2712.9	2706.5	2705.2	2691.2	2652.9	2627.4
15°	2848.1	2858.3	2843.6	2842.3	2824.5	2822.6	2822.6	2820.7	2811.7	2765.8	2723.7
17.5°	3008.1	3011.3	2998.6	2978.2	2955.2	2940.5	2938.6	2943.7	2943.7	2890.2	2823.2
20°	3165.0	3170.8	3160.6	3137.6	3108.3	3086.6	3071.3	3081.5	3080.8	3017.1	2922.1
22.5°	3335.9	3349.3	3334.0	3304.7	3270.3	3246.0	3219.2	3228.2	3228.8	3150.4	3019.0
25°	3557.2	3545.1	3535.5	3494.1	3445.0	3420.1	3395.2	3404.2	3401.6	3293.8	3119.1
27.5°	3753.0	3755.6	3742.8	3698.8	3642.0	3587.2	3585.9	3591.7	3582.1	3443.1	3213.5
30°	3980.7	3982.0	3964.1	3924.6	3862.7	3791.9	3775.3	3784.9	3764.5	3584.7	3313.0
32.5°	4207.1	4213.4	4193.7	4145.8	4096.1	4010.0	3976.9	3983.2	3932.2	3729.4	3415.7
35°	4405.4	4414.3	4408.0	4376.1	4321.9	4247.9	4208.3	4204.5	4141.4	3906.7	3551.5
37.5°	4607.6	4615.9	4608.8	4582.1	4560.4	4481.9	4460.9	4460.9	4351.2	4087.8	3724.3
40°	4815.5	4828.2	4819.9	4782.9	4764.4	4728.7	4678.3	4666.2	4547.6	4305.3	4006.2
42.5°	5008.7	5025.3	5058.4	5036.7	4999.1	5004.2	4902.8	4896.5	4809.7	4626.7	4360.1
45°	5282.9	5307.1	5363.3	5346.7	5339.0	5311.0	5190.4	5184.7	5151.5	5059.1	4799.5
47.5°	5582.0	5615.2	5716.6	5719.8	5802.0	5749.1	5585.2	5565.4	5573.1	5576.9	5335.8
50°	5857.5	5893.9	6060.3	6138.7	6332.6	6344.1	6082.0	6064.1	6094.1	6182.1	5960.8
52.5°	6077.5	6123.4	6331.3	6573.7	6905.9	7000.3	6693.6	6680.2	6702.5	6854.3	6667.4
55°	6238.9	6288.6	6515.0	6956.3	7486.9	7653.3	7397.6	7384.9	7398.9	7592.1	7435.9
57.5°	6276.5	6288.6	6617.0	7213.9	7977.3	8377.2	8259.2	8233.7	8164.8	8333.1	8284.0
60°	6099.8	6148.3	6532.9	7304.5	8356.7	9090.8	9159.6	9127.8	8934.5	9072.3	9032.7
62.5°	5741.4	5828.2	6218.5	7166.8	8505.3	9673.6	10042.9	10004.6	9671.7	9761.0	9571.0
65°	5156.0	5193.0	5603.0	6691.6	8316.6	10046.7	10830.5	10811.3	10392.4	10252.7	9670.5
67.5°	4108.9	4178.4	4526.6	5698.7	7544.3	10002.7	11439.5	11437.6	10863.0	10435.1	9317.8
69°	3246.0	3318.1	3649.7	4694.3	6675.7	9600.3	11541.5	11563.9	10995.6	10324.1	8814.0
70°	2587.9	2671.4	2899.1	3953.9	5904.7	9069.7	11456.7	11496.9	10970.1	10141.1	8349.1
72.5°	1101.4	1168.9	1330.9	2038.2	3598.7	6772.6	10475.3	10627.0	10379.0	9281.4	6900.2
75°	480.8	501.9	575.2	831.0	1597.5	3686.0	8206.2	8486.8	8874.6	7845.3	5140.1
77.5°	352.0	361.0	401.1	487.9	716.8	1392.2	5277.2	5440.4	6400.2	5708.9	3152.9
80°	272.3	278.7	309.9	358.4	468.1	563.1	2406.8	2547.1	3598.7	2932.3	1313.1
82.5°	216.8	221.3	243.0	264.0	323.3	341.2	799.1	886.4	1328.4	809.9	347.6
85°	201.5	206.6	214.3	192.6	207.3	200.2	345.6	361.6	401.1	318.2	145.4
87.5°	91.2	107.8	212.4	149.9	110.3	88.0	141.6	148.0	166.4	167.1	64.4
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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2425.9	2424.0	2427.2	2419.5	2429.1	2428.5	2425.3	2426.5	2432.9	2432.3	2432.9
5°	2440.6	2439.3	2443.1	2437.4	2448.9	2452.7	2453.3	2459.1	2466.1	2468.0	2468.0
7.5°	2477.6	2477.6	2479.5	2471.8	2479.5	2478.8	2475.6	2481.4	2488.4	2489.0	2488.4
10°	2541.3	2542.0	2538.8	2519.0	2512.6	2495.4	2479.5	2480.1	2489.0	2496.1	2498.0
12.5°	2621.7	2619.1	2605.1	2568.8	2542.0	2506.9	2490.3	2489.7	2498.6	2504.3	2506.3
15°	2713.5	2706.5	2670.2	2610.8	2563.7	2529.2	2502.4	2496.1	2491.0	2484.6	2485.2
17.5°	2800.2	2784.3	2723.7	2641.5	2591.7	2545.8	2494.1	2452.7	2424.0	2407.4	2402.3
20°	2888.3	2857.0	2769.6	2670.2	2607.0	2523.5	2424.0	2339.8	2287.5	2263.3	2258.8
22.5°	2968.6	2918.2	2812.4	2700.1	2594.9	2448.2	2292.0	2169.5	2096.8	2064.3	2066.9
25°	3047.0	2976.9	2857.0	2721.2	2533.7	2315.6	2108.3	1957.8	1873.6	1837.3	1836.0
27.5°	3115.9	3036.2	2905.5	2704.0	2419.5	2126.8	1890.9	1744.2	1674.0	1642.8	1637.7
30°	3195.0	3110.8	2969.9	2638.3	2252.4	1908.7	1678.5	1575.2	1525.4	1494.2	1488.4
32.5°	3291.3	3212.2	3022.8	2519.0	2038.8	1681.0	1512.7	1440.6	1395.3	1360.3	1353.9
35°	3431.6	3346.1	3036.2	2348.1	1804.1	1501.2	1390.9	1316.9	1255.7	1210.4	1205.9
37.5°	3607.6	3513.9	3005.6	2126.8	1576.5	1384.5	1289.5	1198.3	1118.6	1054.8	1044.6
40°	3861.4	3719.8	2920.8	1871.7	1408.7	1294.6	1190.6	1086.7	987.8	913.2	898.6
42.5°	4166.3	3961.5	2790.7	1617.9	1285.7	1203.4	1092.4	963.6	869.2	816.3	808.6
45°	4554.0	4212.8	2610.2	1396.0	1164.5	1112.2	986.6	867.9	809.3	770.4	764.0
47.5°	4996.6	4494.7	2420.8	1215.5	1061.8	1026.7	901.7	825.2	778.7	748.1	742.3
50°	5540.6	4812.9	2219.9	1067.6	958.5	924.1	861.6	801.6	764.6	741.0	735.3
52.5°	6154.0	5171.9	2075.2	950.8	873.0	848.2	840.5	788.9	758.9	741.0	735.3
55°	6814.7	5537.4	1918.9	852.6	799.1	806.1	826.5	790.1	769.7	748.1	739.8
57.5°	7476.0	5914.9	1744.8	769.7	740.4	774.8	816.9	792.7	775.5	754.4	746.8
60°	7999.0	6154.0	1475.1	700.2	693.8	740.4	794.0	773.6	751.2	751.9	750.6
62.5°	8243.2	6141.3	1177.2	638.4	647.3	693.8	757.0	743.6	725.1	750.0	751.9
65°	8106.1	5835.2	916.4	582.2	597.5	645.4	718.7	728.9	735.3	783.1	789.5
67.5°	7530.9	5239.5	709.8	533.1	552.3	612.2	722.5	794.0	802.3	852.6	852.0
69°	6935.9	4680.9	616.7	507.6	529.9	620.5	772.3	835.4	804.2	857.7	850.1
70°	6437.2	4239.0	566.9	490.4	519.7	635.2	805.4	834.8	794.6	840.5	827.8
72.5°	4957.7	3049.6	480.8	458.5	485.3	607.8	815.0	816.3	772.3	781.2	759.5
75°	3400.3	1927.2	419.6	415.2	433.0	547.8	784.4	779.9	714.3	701.5	683.6
77.5°	1874.9	978.9	356.5	373.7	385.8	485.3	713.0	706.6	652.4	625.6	619.2
80°	723.2	428.6	301.0	332.3	339.9	420.3	625.0	619.2	574.0	539.5	529.9
82.5°	272.9	224.5	248.7	287.6	285.1	346.9	529.3	526.1	482.1	431.7	416.4
85°	126.3	134.6	197.1	237.2	218.7	257.0	423.4	429.2	375.6	315.7	315.7
87.5°	53.6	75.3	139.7	179.2	147.3	173.5	310.6	296.5	272.3	188.8	177.3
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)