

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: P320067

Luminaire Tested: **GAN-SA3A-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13519 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 96
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



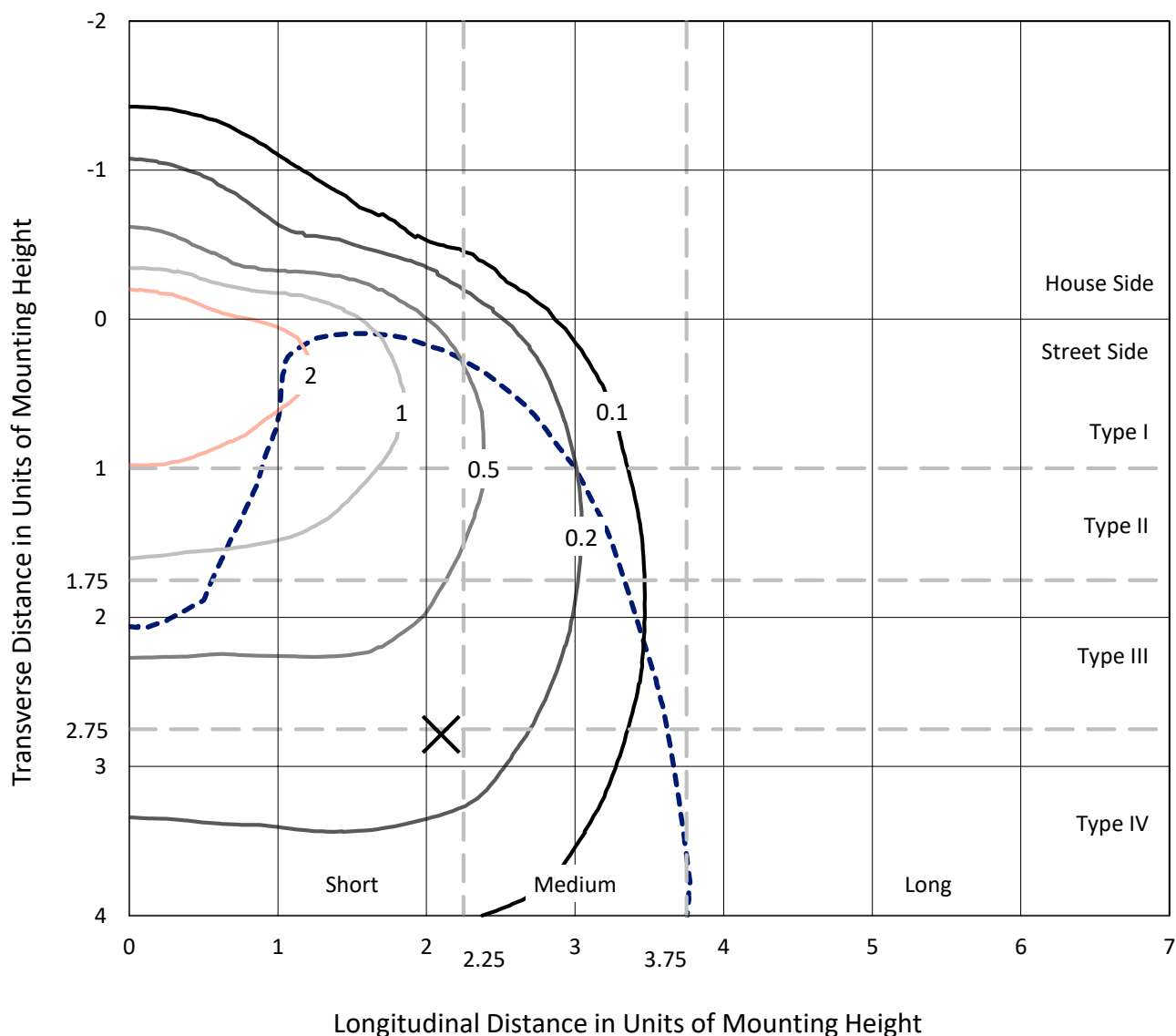
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

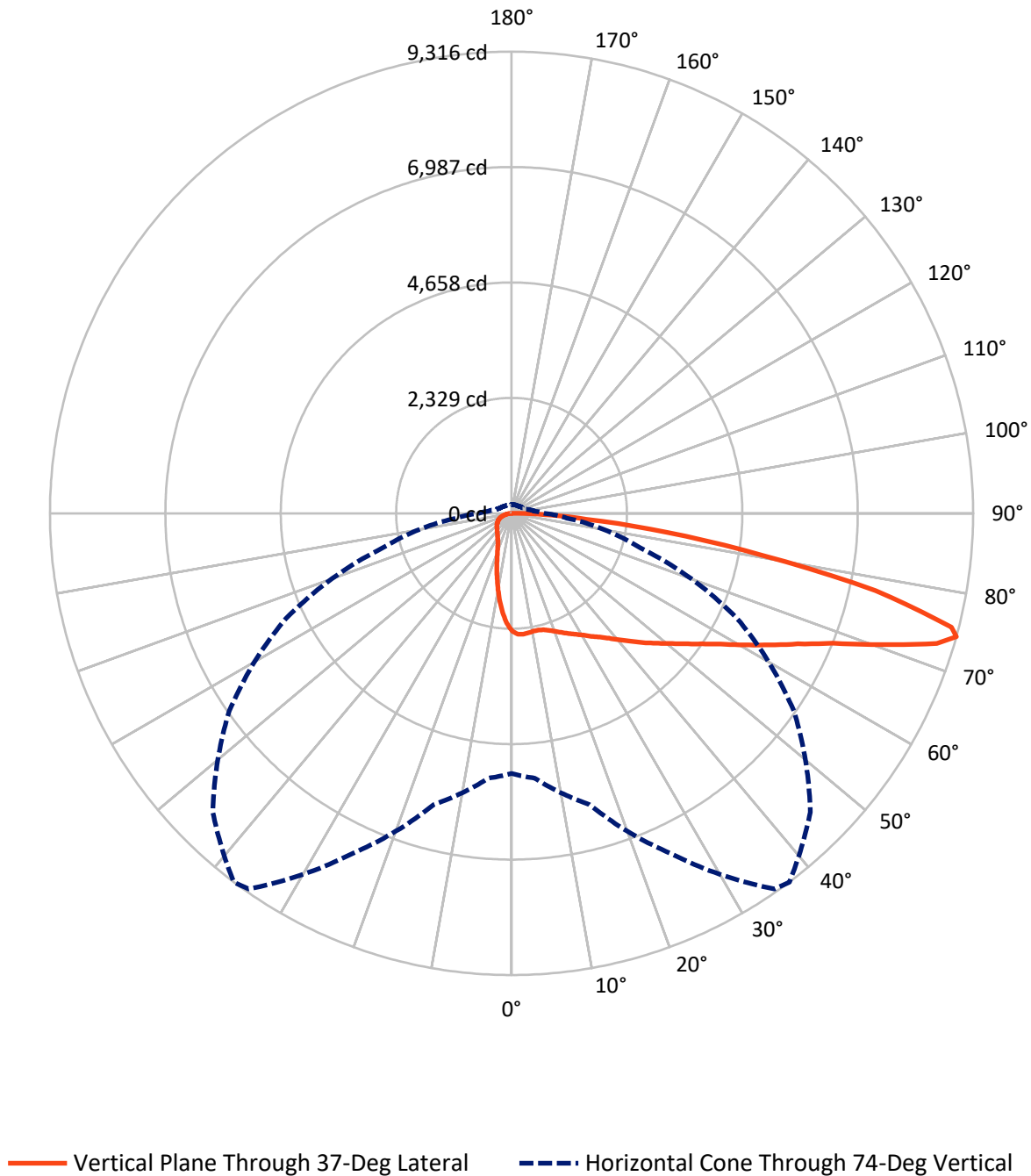


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.1	0.0	1860.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	11658.9	0.0	11658.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	13519.0	0.0	13519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.6
10°-20°	537.7	4.0
20°-30°	828.5	6.1
30°-40°	1204.7	8.9
40°-50°	1773.1	13.1
50°-60°	2490.0	18.4
60°-70°	3151.6	23.3
70°-80°	2775.1	20.5
80°-90°	548.7	4.1
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°	13519.0	100.0
0°-180°	13519.0	100.0

Coefficient of Utilization



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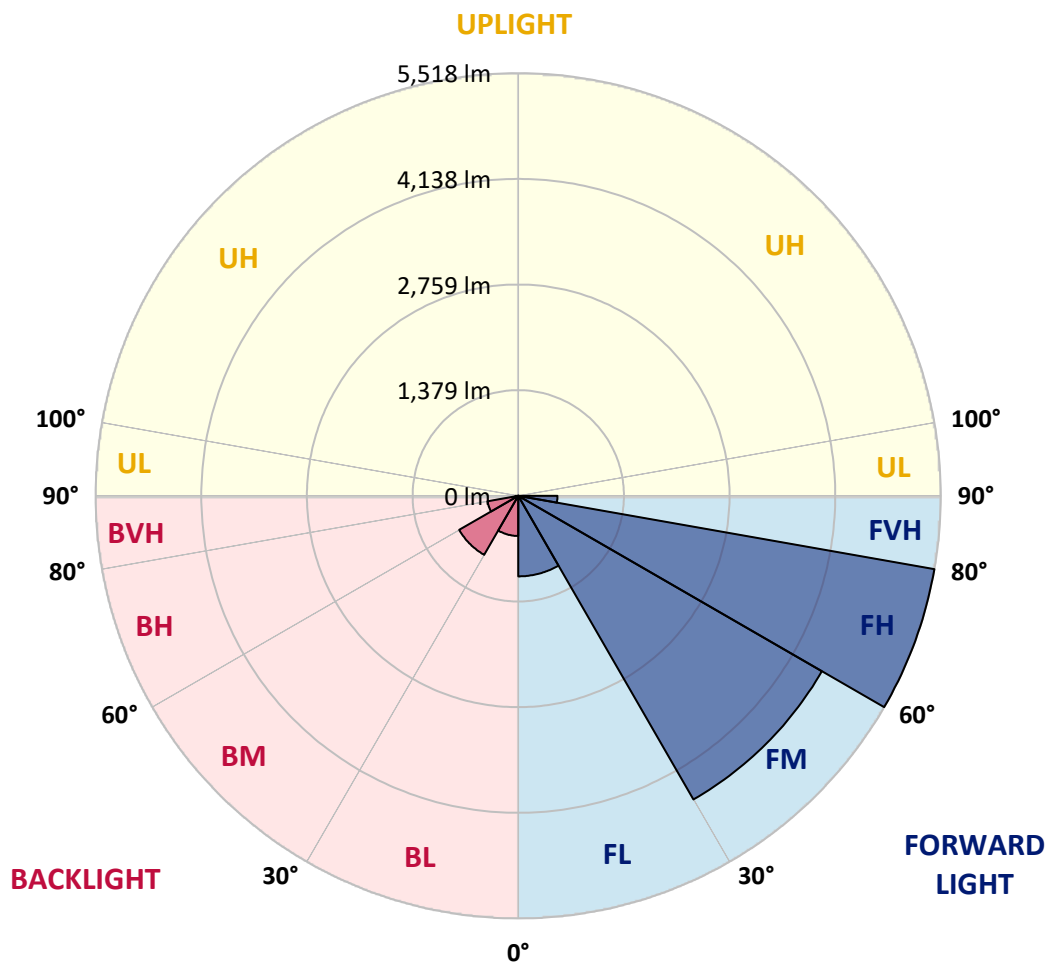
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.9	7.8			
FM	(30°-60°)	4577.6	33.9			
FH	(60°-80°)	5517.8	40.8			G3/7500
FVH	(80°-90°)	511.5	3.8			G4/750
BL	(0°-30°)	523.9	3.9	B2/1000		
BM	(30°-60°)	890.1	6.6	B1/1000		
BH	(60°-80°)	408.9	3.0	B1/500		G1/500
BVH	(80°-90°)	37.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2463.4	2463.9	2463.4	2459.6	2450.6	2443.0	2436.8	2427.7	2407.7	2392.5	2369.6
5°	2486.8	2483.9	2482.0	2474.9	2460.6	2452.0	2440.1	2422.9	2390.1	2359.6	2322.5
7.5°	2475.8	2472.5	2468.2	2459.6	2443.4	2436.3	2419.6	2397.2	2357.7	2317.7	2264.4
10°	2442.0	2441.0	2439.1	2437.2	2423.4	2417.7	2402.5	2378.7	2339.6	2291.0	2228.7
12.5°	2404.4	2406.8	2414.4	2424.4	2418.2	2415.3	2405.8	2389.6	2349.6	2297.2	2222.0
15°	2380.6	2387.2	2407.7	2433.9	2439.1	2438.2	2435.8	2425.3	2382.9	2324.9	2237.2
17.5°	2372.5	2383.4	2422.5	2465.8	2481.0	2484.4	2485.3	2467.2	2420.1	2358.7	2252.9
20°	2387.2	2401.0	2458.2	2517.7	2542.0	2543.9	2539.6	2508.2	2455.3	2387.7	2261.5
22.5°	2432.0	2444.4	2515.8	2583.0	2610.6	2613.4	2600.6	2553.0	2492.5	2422.0	2273.4
25°	2518.2	2533.4	2604.9	2672.0	2686.3	2686.8	2668.2	2609.1	2541.0	2470.1	2299.1
27.5°	2630.6	2645.8	2710.1	2775.8	2768.2	2763.9	2738.7	2679.6	2604.4	2536.3	2344.9
30°	2755.8	2772.5	2833.4	2880.1	2862.0	2853.4	2833.0	2756.8	2692.5	2626.8	2414.9
32.5°	2885.3	2900.6	2953.9	2985.8	2963.0	2959.2	2928.2	2858.7	2807.2	2764.9	2528.2
35°	3018.2	3029.2	3081.5	3099.6	3069.2	3068.2	3059.6	2995.8	2963.4	2983.4	2693.0
37.5°	3153.9	3156.8	3201.6	3202.5	3193.5	3197.3	3206.3	3166.3	3175.4	3237.7	2907.3
40°	3274.9	3282.5	3314.9	3324.9	3340.6	3353.9	3399.2	3373.0	3443.0	3553.5	3173.9
42.5°	3364.4	3379.2	3431.1	3456.8	3507.8	3528.7	3592.5	3616.8	3757.8	3923.5	3491.1
45°	3440.1	3463.0	3546.3	3599.2	3685.4	3722.0	3813.5	3894.9	4113.5	4324.9	3824.9
47.5°	3522.0	3551.1	3655.4	3756.3	3873.5	3914.9	4081.1	4203.0	4493.0	4728.8	4139.7
50°	3642.5	3664.9	3766.8	3925.4	4071.6	4124.9	4354.9	4529.7	4878.8	5113.5	4412.5
52.5°	3810.6	3802.0	3888.2	4110.6	4306.8	4372.5	4647.3	4877.3	5269.7	5461.6	4643.0
55°	3979.7	3965.4	4025.9	4304.4	4581.1	4650.2	4969.2	5226.4	5641.6	5775.0	4819.7
57.5°	4167.8	4140.6	4191.6	4523.0	4893.5	4975.9	5329.7	5597.4	6007.4	6028.3	4932.1
60°	4361.6	4324.9	4382.1	4794.0	5290.2	5387.3	5751.6	5959.3	6352.1	6231.2	4968.3
62.5°	4531.1	4505.4	4593.5	5096.4	5737.4	5844.0	6165.9	6344.1	6692.2	6315.5	4837.8
65°	4679.2	4683.5	4835.9	5436.4	6236.0	6349.8	6641.2	6818.4	6959.8	6265.5	4532.6
67.5°	4855.9	4880.2	5140.2	5884.0	6863.6	6988.4	7332.7	7335.5	7109.3	5972.1	3931.6
70°	5113.5	5163.5	5558.8	6505.0	7756.0	7927.4	8193.2	7639.3	6899.3	5176.9	3093.5
72.5°	5342.1	5435.4	6004.0	7215.5	8843.7	8973.7	8696.5	7464.1	6021.7	3879.7	1927.2
74°	5249.2	5365.0	6085.0	7565.5	9253.2	9315.6	8526.5	6952.6	5020.7	2686.8	1120.0
75°	5049.2	5175.0	5966.9	7562.2	9201.3	9166.5	8116.0	6368.3	4134.9	1832.5	745.3
77.5°	4074.9	4207.8	5027.8	6481.2	7544.6	7511.7	6234.5	4272.1	1811.0	601.0	378.6
80°	2369.1	2470.6	3121.1	4115.9	5087.3	5146.9	4100.2	2113.9	712.4	337.6	256.7
82.5°	1052.4	1122.4	1507.7	2101.0	3070.1	3146.8	2147.2	1107.7	440.0	205.2	154.3
85°	690.5	742.4	915.3	1000.5	1462.0	1514.3	1051.0	862.4	290.5	112.9	113.3
87.5°	496.7	546.7	680.0	593.8	671.0	635.3	571.9	798.1	116.7	64.3	38.1
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°	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0	2382.0
2.5°	2359.6	2352.0	2334.9	2302.5	2284.4	2269.1	2243.9	2229.1	2222.5	2222.0	2224.8
5°	2301.0	2283.4	2239.1	2184.8	2141.5	2102.0	2052.9	2023.4	2002.5	1990.1	1993.4
7.5°	2232.9	2205.3	2135.8	2049.1	1979.6	1902.9	1827.2	1782.0	1746.7	1720.5	1725.3
10°	2186.3	2148.2	2046.7	1922.0	1806.3	1694.8	1590.5	1528.2	1478.6	1440.5	1443.4
12.5°	2170.6	2119.1	1978.6	1812.0	1649.6	1497.2	1361.0	1265.3	1214.3	1171.0	1174.3
15°	2172.9	2103.9	1921.5	1712.9	1508.6	1316.7	1151.5	1039.6	970.5	940.5	941.0
17.5°	2174.8	2086.3	1861.5	1606.7	1369.1	1148.1	968.6	855.3	790.0	762.4	762.9
20°	2168.7	2057.7	1787.2	1484.8	1223.4	993.4	819.6	723.4	673.8	652.4	652.4
22.5°	2160.6	2023.9	1703.4	1362.4	1079.6	859.1	712.9	639.5	611.0	596.7	596.2
25°	2164.4	1998.6	1617.7	1236.7	947.2	751.9	641.9	593.4	574.3	565.3	564.8
27.5°	2184.8	1986.7	1538.6	1111.5	831.5	671.5	594.3	560.0	547.6	541.9	541.9
30°	2222.0	1986.7	1456.2	1004.8	735.3	611.9	557.6	534.3	525.7	521.9	521.9
32.5°	2286.8	1997.7	1376.7	899.1	658.6	565.3	527.2	511.4	504.8	502.9	502.9
35°	2398.2	2034.8	1299.1	799.1	596.7	527.2	498.1	489.1	484.3	483.8	485.3
37.5°	2554.9	2110.6	1226.2	725.3	552.9	496.2	473.8	466.7	463.8	466.2	468.1
40°	2752.0	2213.4	1160.0	658.6	519.5	471.4	451.4	446.7	445.3	448.6	451.4
42.5°	2990.1	2352.5	1105.8	610.5	493.8	450.5	432.4	426.7	425.3	429.1	432.9
45°	3247.7	2502.0	1067.7	574.8	473.8	434.8	415.7	409.5	406.7	408.6	412.9
47.5°	3482.0	2643.4	1052.4	549.5	454.8	421.4	401.0	393.3	388.6	387.6	391.0
50°	3679.7	2748.7	1059.6	534.3	439.5	406.7	386.7	378.1	371.0	366.7	369.1
52.5°	3823.5	2814.9	1066.2	527.6	427.6	390.5	371.0	362.9	353.3	346.2	346.2
55°	3927.8	2830.1	1051.5	522.4	418.6	372.9	353.3	345.7	336.2	328.1	327.2
57.5°	3968.7	2787.2	996.7	514.8	412.4	356.2	334.8	329.1	321.0	311.4	311.0
60°	3913.5	2654.9	891.0	498.6	404.3	342.4	316.2	312.4	308.6	299.5	299.1
62.5°	3691.6	2364.4	754.3	465.7	388.1	327.6	299.1	301.0	301.4	295.2	294.3
65°	3289.2	1965.3	621.0	422.9	363.8	310.0	281.4	290.5	295.7	294.8	293.3
67.5°	2704.4	1529.6	526.2	377.6	331.9	285.7	262.4	272.9	277.2	280.5	279.5
70°	2007.2	1078.6	435.3	330.0	293.3	257.2	237.6	242.9	240.0	243.8	245.2
72.5°	1119.1	647.2	354.8	282.4	253.3	223.8	210.0	209.1	202.9	202.9	202.9
74°	671.5	474.8	311.9	252.9	229.1	201.9	190.0	185.7	180.0	180.5	180.0
75°	540.0	408.1	286.2	233.3	211.9	189.1	177.1	171.4	167.1	167.1	166.7
77.5°	341.0	310.0	230.5	185.7	169.5	155.7	147.6	140.0	140.0	139.5	139.1
80°	257.6	246.7	179.5	140.5	130.0	119.5	114.3	111.0	111.0	112.4	111.9
82.5°	176.7	185.7	126.2	98.1	92.9	85.2	84.3	84.8	83.3	81.4	81.0
85°	129.1	139.5	85.2	61.9	56.7	51.9	55.7	57.6	55.2	51.0	49.0
87.5°	49.5	91.4	45.7	25.7	23.8	20.5	23.8	24.8	26.7	21.0	21.4
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)