

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: P323748

Luminaire Tested: **GAN-SA4A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12759 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

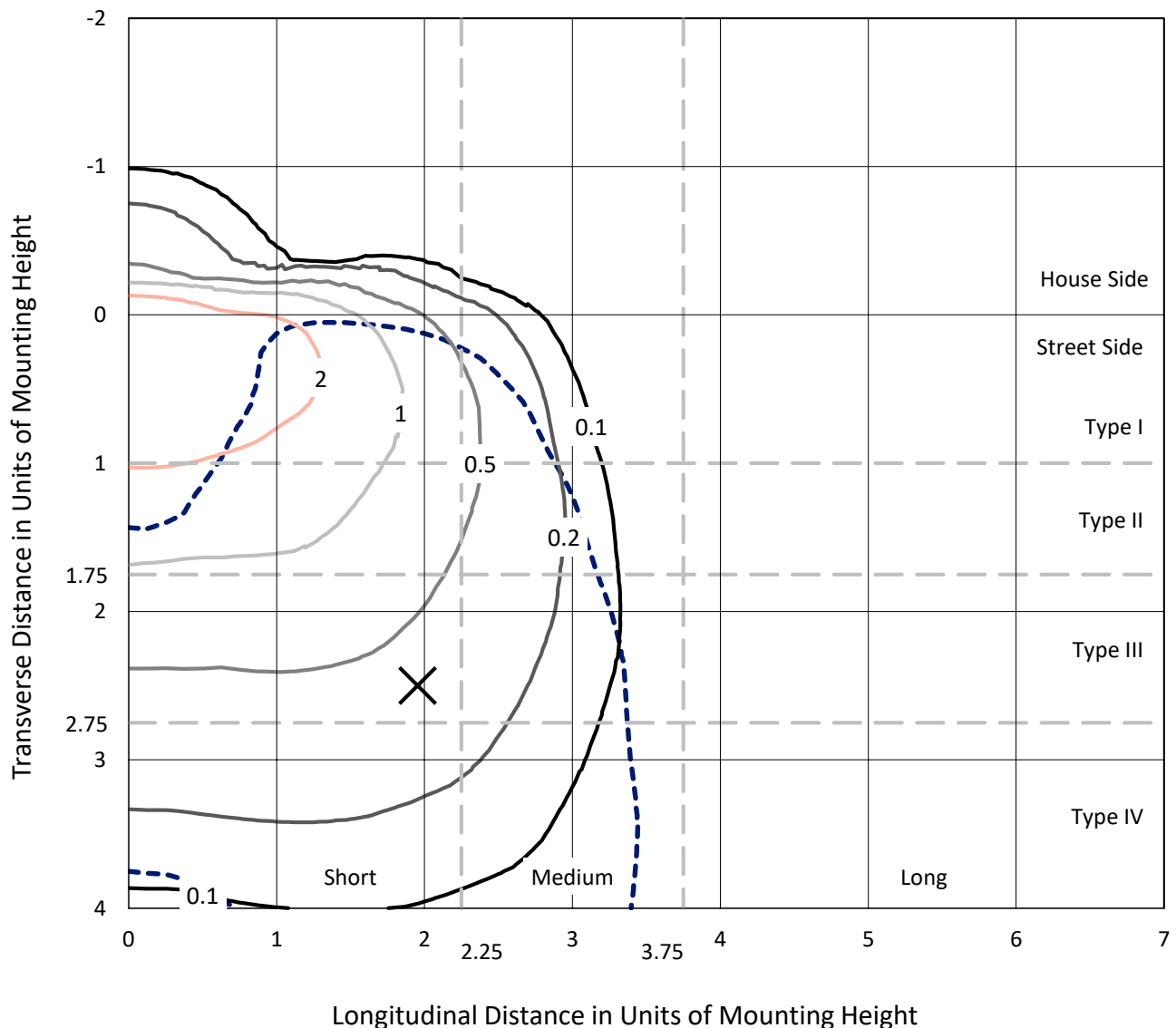
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

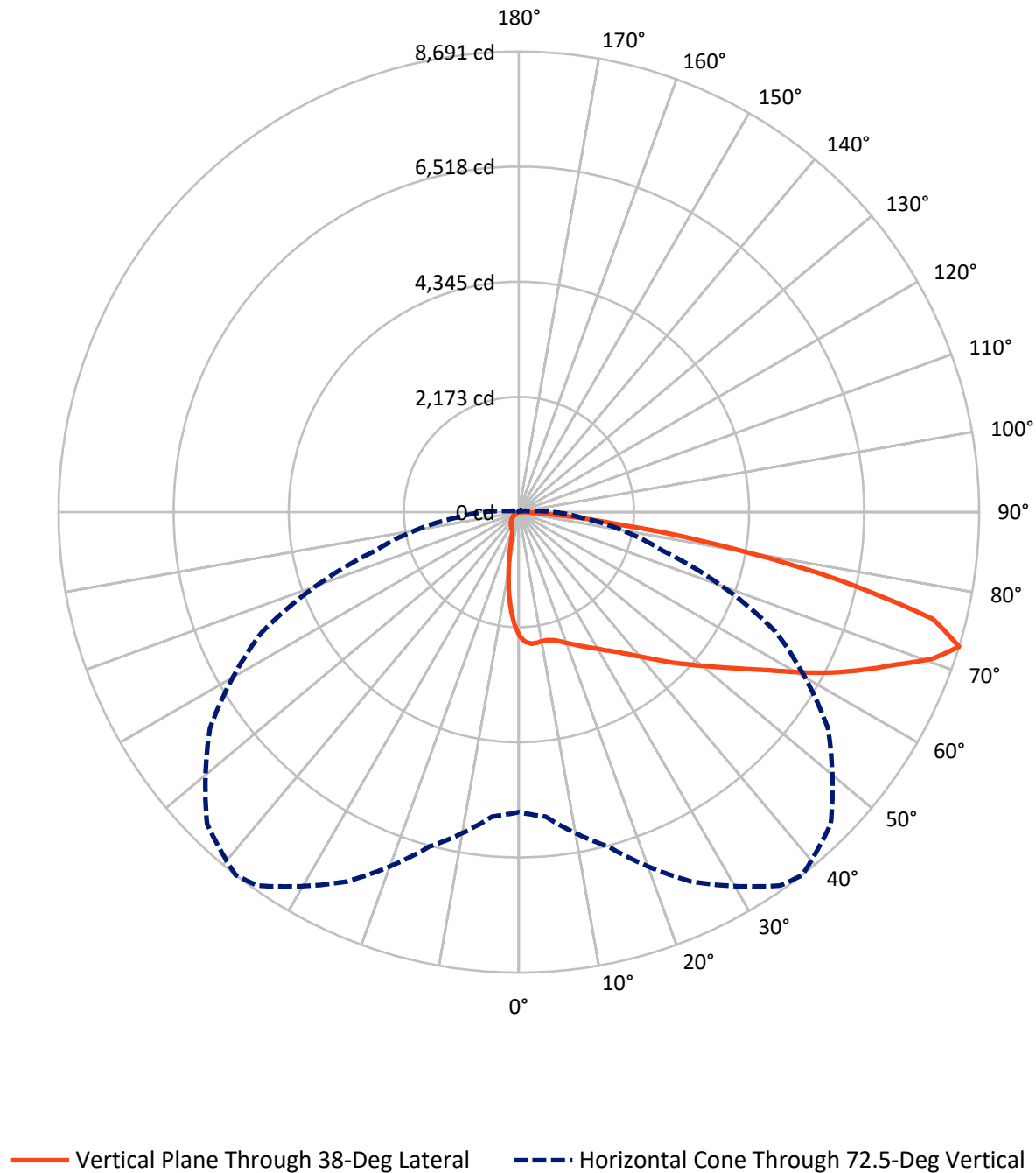
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1073.7	0.0	1073.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11685.3	0.0	11685.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	12759.0	0.0	12759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	1.6
10°-20°	488.9	3.8
20°-30°	777.6	6.1
30°-40°	1169.1	9.2
40°-50°	1783.5	14.0
50°-60°	2520.7	19.8
60°-70°	3161.8	24.8
70°-80°	2364.2	18.5
80°-90°	293.1	2.3
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°	12759.0	100.0
0°-180°	12759.0	100.0

Coefficient of Utilization



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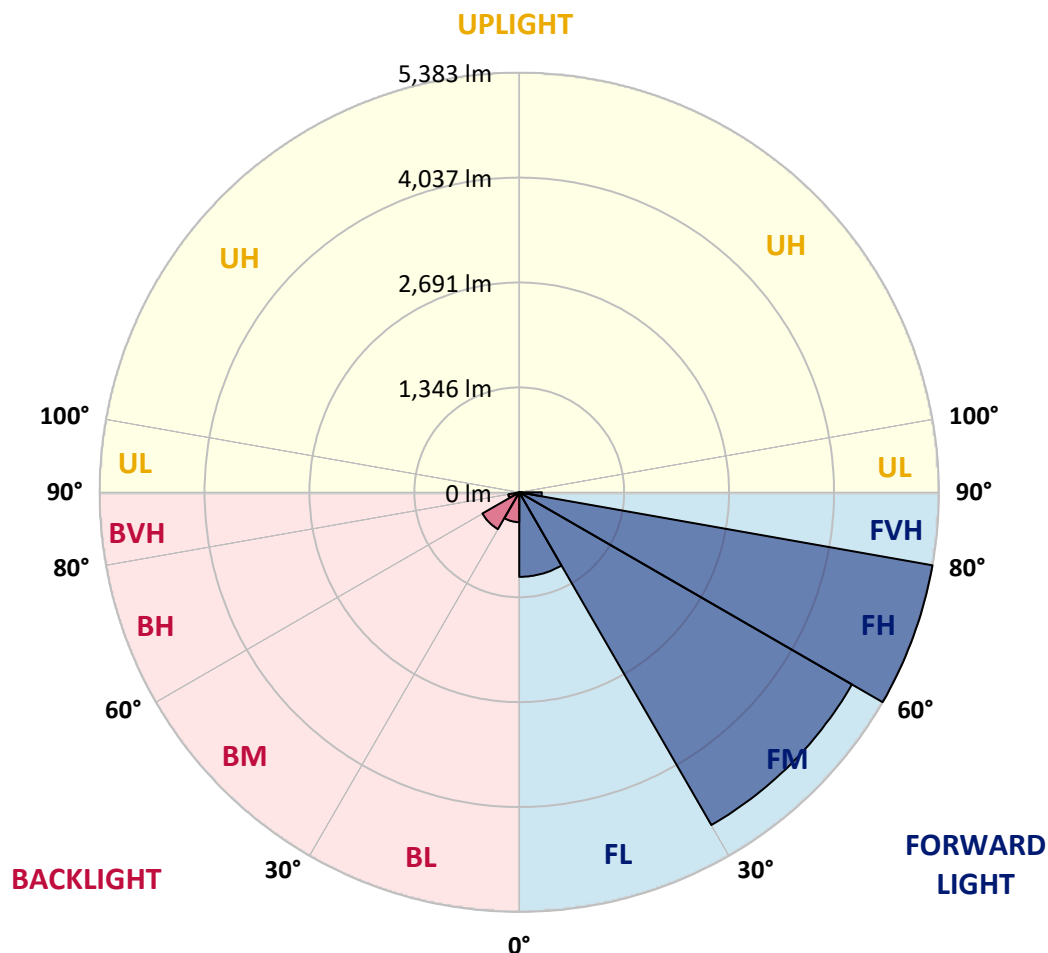
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.2	8.5			
FM	(30°-60°)	4928.1	38.6			
FH	(60°-80°)	5382.6	42.2			G3/7500
FVH	(80°-90°)	290.4	2.3			G3/500
BL	(0°-30°)	382.3	3.0	B1/500		
BM	(30°-60°)	545.2	4.3	B1/1000		
BH	(60°-80°)	143.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3
2.5°	2490.5	2491.0	2485.2	2475.6	2463.4	2457.1	2446.5	2429.5	2411.5	2379.2	2344.2
5°	2541.3	2541.3	2533.9	2521.2	2501.6	2495.8	2475.6	2448.6	2411.5	2359.1	2300.2
7.5°	2536.0	2537.1	2527.0	2513.8	2494.2	2488.9	2464.5	2434.3	2388.2	2324.6	2249.4
10°	2508.5	2511.1	2503.2	2496.8	2478.8	2473.0	2450.2	2420.0	2373.9	2306.1	2219.7
12.5°	2480.4	2483.0	2485.7	2491.5	2480.4	2478.3	2460.3	2434.8	2390.8	2320.4	2222.9
15°	2462.4	2467.7	2486.8	2509.5	2512.2	2510.1	2498.4	2474.6	2430.1	2356.9	2245.7
17.5°	2462.4	2470.9	2510.6	2554.1	2569.4	2571.0	2560.9	2527.6	2474.6	2396.1	2266.9
20°	2483.0	2494.7	2556.7	2618.2	2643.6	2643.6	2624.0	2577.4	2515.4	2431.6	2281.2
22.5°	2536.0	2551.4	2629.3	2700.3	2727.3	2721.5	2695.0	2627.2	2557.8	2471.9	2299.2
25°	2640.4	2652.1	2733.2	2804.7	2821.1	2807.9	2774.5	2687.6	2611.8	2526.5	2332.0
27.5°	2775.0	2776.6	2860.3	2920.7	2910.7	2901.7	2859.8	2763.4	2689.7	2604.4	2388.7
30°	2922.9	2922.9	2996.5	3042.6	3011.9	3004.5	2962.6	2855.0	2789.3	2710.4	2469.3
32.5°	3065.9	3072.3	3132.2	3161.3	3126.9	3119.4	3078.6	2971.1	2921.8	2872.0	2594.9
35°	3204.2	3209.0	3265.7	3281.6	3248.7	3250.9	3221.7	3130.6	3112.0	3105.7	2784.0
37.5°	3338.3	3339.3	3397.1	3407.2	3390.7	3408.8	3411.4	3330.9	3365.3	3416.7	3050.6
40°	3460.7	3461.7	3519.0	3544.9	3573.0	3596.3	3617.0	3574.1	3688.0	3807.2	3368.0
42.5°	3558.7	3569.8	3642.4	3691.7	3765.9	3810.4	3866.6	3864.5	4072.2	4251.3	3751.6
45°	3645.1	3664.2	3765.4	3851.7	3978.9	4049.9	4137.9	4206.8	4504.6	4745.7	4140.0
47.5°	3759.0	3777.0	3892.5	4034.0	4203.6	4296.9	4442.6	4591.5	4979.9	5231.0	4519.4
50°	3919.6	3911.6	4025.5	4228.5	4446.3	4568.7	4776.4	4999.5	5451.5	5653.9	4742.5
52.5°	4090.7	4087.5	4171.8	4439.9	4732.4	4875.5	5150.0	5421.3	5902.4	5945.3	4844.8
55°	4302.7	4279.9	4350.9	4681.0	5072.1	5225.7	5549.0	5838.8	6261.7	6109.6	4896.2
57.5°	4524.7	4487.1	4554.9	4949.7	5455.2	5636.9	5990.9	6245.8	6500.6	6221.9	4895.6
60°	4754.1	4709.6	4790.2	5285.6	5931.0	6141.4	6469.9	6520.8	6723.7	6278.6	4859.6
62.5°	4946.0	4919.5	5039.2	5644.9	6462.5	6669.2	6831.8	6770.9	6911.8	6322.6	4775.3
65°	5148.9	5150.5	5343.9	6064.0	7027.4	7166.7	7180.5	7095.2	7069.2	6313.6	4490.3
67.5°	5423.4	5448.8	5771.5	6633.1	7576.8	7684.4	7683.4	7446.5	7184.2	5955.4	3858.1
70°	5713.8	5773.6	6264.3	7284.4	8176.7	8285.8	8229.7	7670.1	6764.5	4815.6	2730.5
72.5°	5665.0	5768.9	6538.3	7695.0	8607.5	8690.7	8325.6	7120.6	5346.6	2798.9	1162.6
75°	4370.5	4490.8	5995.1	7288.1	8155.5	8080.8	7153.5	5541.0	2921.8	781.1	261.8
77.5°	2308.7	2372.8	3960.4	5552.2	6359.2	6202.9	5039.2	3073.9	890.7	193.4	117.6
80°	1209.2	1224.0	1725.8	3150.2	3924.9	3925.9	2986.4	1350.2	367.2	99.1	79.0
82.5°	647.5	660.2	911.9	1455.6	2056.5	1864.1	1143.5	742.9	213.5	56.2	75.8
85°	155.8	158.4	517.2	665.0	808.6	577.6	339.7	623.7	57.8	32.9	61.5
87.5°	59.9	60.9	191.8	287.7	206.1	133.5	159.0	232.6	7.4	12.7	9.5
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°	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3	2346.3
2.5°	2323.0	2309.2	2275.3	2232.4	2194.3	2166.7	2125.4	2098.4	2080.3	2079.8	2072.9
5°	2264.2	2236.1	2163.0	2076.1	1997.1	1926.1	1842.4	1776.2	1726.9	1719.0	1702.0
7.5°	2201.1	2155.0	2042.7	1907.1	1774.6	1640.0	1483.7	1386.7	1303.5	1263.8	1259.5
10°	2162.5	2097.8	1938.3	1742.3	1534.6	1315.7	1111.2	969.7	867.4	838.3	816.6
12.5°	2154.5	2069.2	1857.8	1587.5	1290.8	1001.5	775.2	624.7	543.1	517.2	510.3
15°	2162.5	2056.0	1790.0	1434.4	1043.9	710.6	520.3	432.9	402.2	394.8	394.2
17.5°	2167.2	2040.1	1713.1	1264.3	804.4	507.6	398.5	373.0	368.3	367.7	368.8
20°	2166.7	2015.7	1621.5	1074.6	598.2	399.0	360.3	355.0	354.0	354.5	354.0
22.5°	2163.0	1987.1	1520.8	879.1	452.0	356.6	343.9	340.7	340.2	340.2	340.2
25°	2169.9	1964.3	1410.0	692.0	372.5	337.0	329.1	326.4	325.9	325.9	324.8
27.5°	2194.8	1951.6	1288.7	532.5	336.5	319.5	313.2	312.6	311.0	310.5	311.6
30°	2235.1	1951.6	1155.7	414.4	314.8	301.5	296.7	295.7	295.1	294.6	295.1
32.5°	2306.1	1966.4	1010.5	344.4	294.1	281.4	278.2	279.8	278.2	278.2	278.2
35°	2434.3	2010.9	858.4	300.4	272.4	261.8	258.6	260.7	259.6	259.6	259.1
37.5°	2621.3	2093.6	705.3	274.0	253.3	242.2	237.9	241.1	240.0	240.0	239.5
40°	2849.2	2213.9	559.6	253.8	234.7	223.1	219.4	221.0	218.3	218.3	219.4
42.5°	3130.6	2366.5	432.4	234.2	216.2	205.1	202.9	201.4	196.6	193.9	194.5
45°	3443.2	2525.4	337.0	215.1	198.7	189.7	186.5	182.3	174.3	169.0	169.6
47.5°	3722.5	2647.8	274.0	196.6	182.8	175.9	171.2	163.2	151.5	145.2	145.7
50°	3869.2	2666.4	233.2	178.0	168.0	161.1	154.2	142.0	128.2	121.3	120.8
52.5°	3906.9	2579.5	202.9	161.1	153.1	145.2	136.2	119.8	104.4	97.0	95.9
55°	3920.6	2447.0	175.9	145.2	137.2	128.2	116.6	98.0	83.7	76.3	75.8
57.5°	3875.1	2249.4	154.7	130.9	121.3	110.2	95.9	78.4	64.6	58.8	58.8
60°	3773.9	1981.8	138.3	115.5	104.9	92.2	77.4	60.9	48.2	43.5	43.5
62.5°	3572.0	1635.2	122.9	99.6	89.6	76.3	62.5	46.1	33.9	31.3	31.8
65°	3191.0	1240.5	107.6	85.3	76.3	63.1	48.7	32.9	22.8	22.8	23.8
67.5°	2602.3	861.6	91.7	72.6	65.7	51.4	37.1	22.8	15.9	18.0	20.1
70°	1722.7	483.3	78.4	59.9	56.2	40.8	27.6	15.4	12.7	17.0	20.7
72.5°	650.2	188.1	65.7	48.2	48.7	31.3	19.6	11.7	11.7	18.5	24.4
75°	181.2	92.2	47.2	35.5	38.2	22.8	14.3	10.1	11.1	21.2	28.6
77.5°	106.5	67.8	30.7	20.7	26.0	15.9	9.5	7.9	9.5	18.0	27.6
80°	85.8	36.0	18.0	10.6	14.3	9.0	6.4	4.8	2.6	6.9	14.3
82.5°	85.8	21.7	8.5	7.4	7.4	4.8	3.2	2.1	0.5	0.0	3.7
85°	57.8	9.0	5.3	4.8	3.7	1.6	1.1	0.5	0.0	0.0	0.0
87.5°	9.5	3.7	2.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
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)