

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: P323907

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323907
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-SA3A-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 11547 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

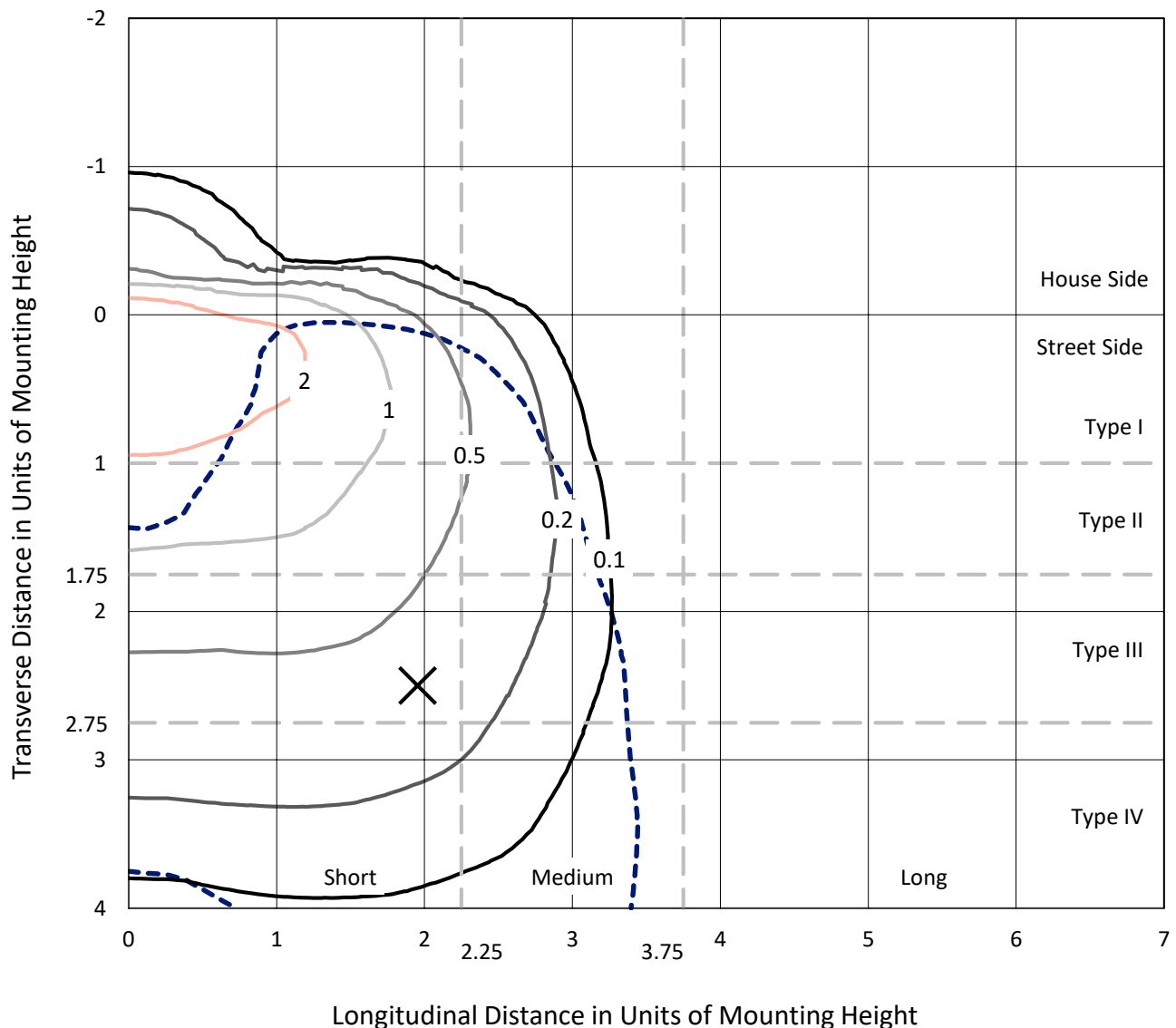
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

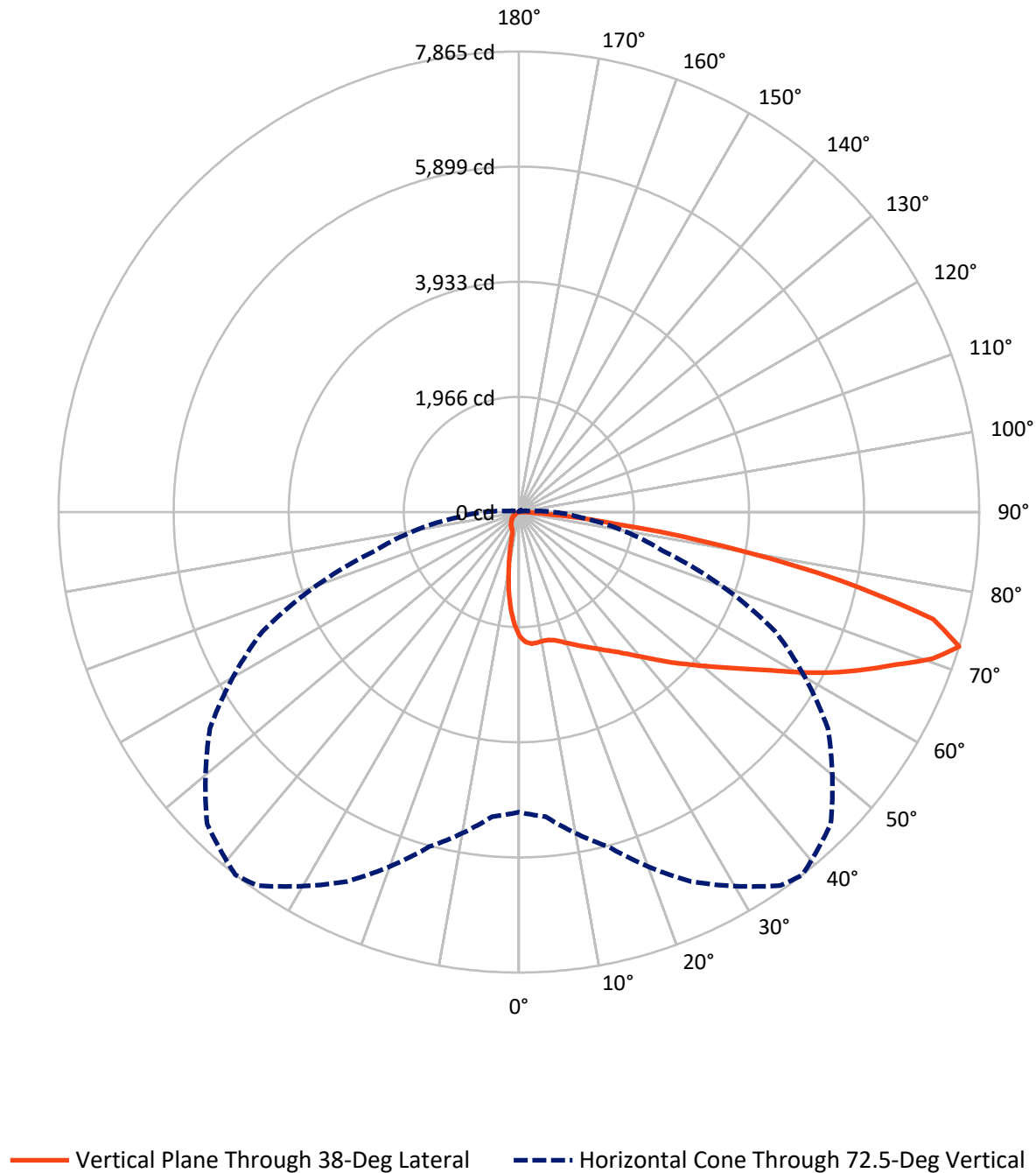
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	971.7	0.0	971.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10575.3	0.0	10575.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	11547.0	0.0	11547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	1.6
10°-20°	442.5	3.8
20°-30°	703.8	6.1
30°-40°	1058.0	9.2
40°-50°	1614.1	14.0
50°-60°	2281.3	19.8
60°-70°	2861.5	24.8
70°-80°	2139.6	18.5
80°-90°	265.3	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°	11547.0	100.0
0°-180°	11547.0	100.0

Coefficient of Utilization



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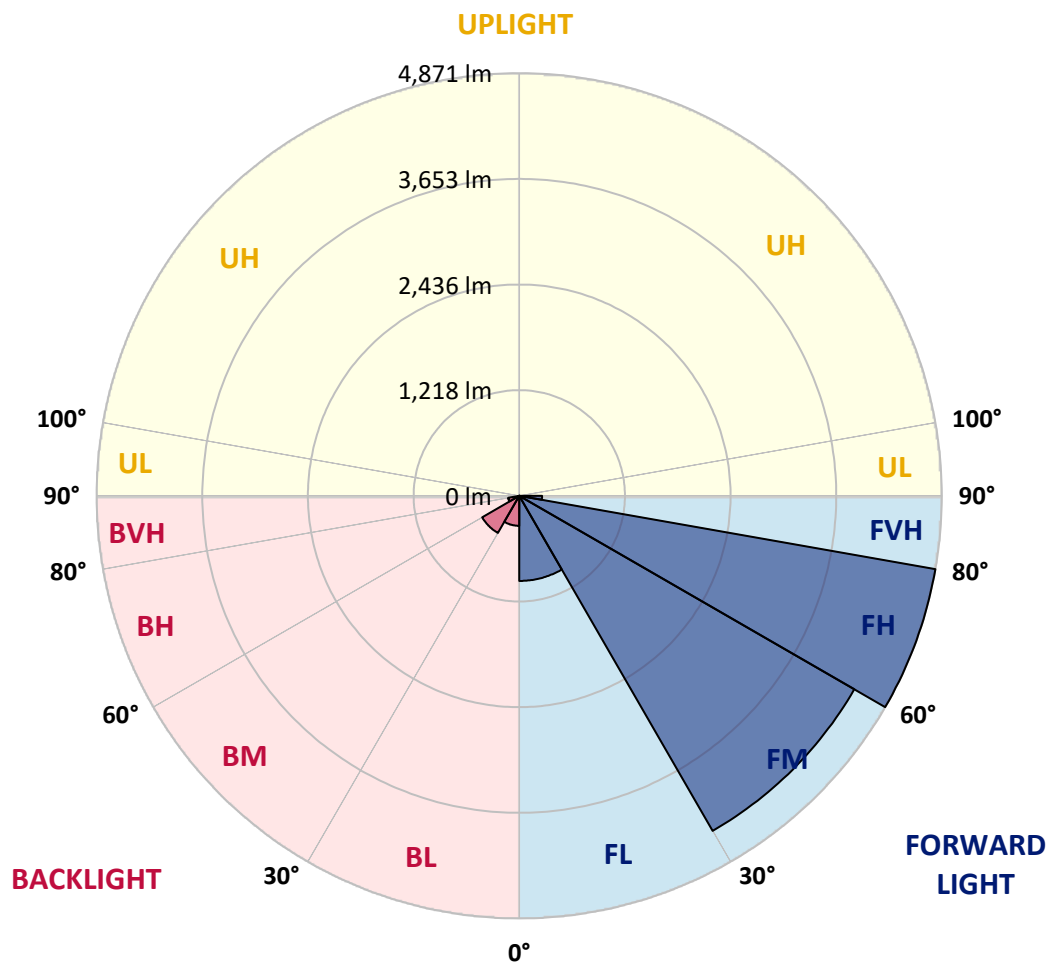
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	981.2	8.5			
FM	(30°-60°)	4460.0	38.6			
FH	(60°-80°)	4871.3	42.2			G2/5000
FVH	(80°-90°)	262.8	2.3			G3/500
BL	(0°-30°)	346.0	3.0	B1/500		
BM	(30°-60°)	493.5	4.3	B1/1000		
BH	(60°-80°)	129.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2.5°	2253.9	2254.4	2249.1	2240.5	2229.4	2223.7	2214.1	2198.7	2182.4	2153.2	2121.5
5°	2299.9	2299.9	2293.2	2281.7	2264.0	2258.7	2240.5	2216.0	2182.4	2135.0	2081.7
7.5°	2295.1	2296.1	2287.0	2275.0	2257.3	2252.5	2230.4	2203.1	2161.3	2103.8	2035.7
10°	2270.2	2272.6	2265.4	2259.6	2243.3	2238.1	2217.4	2190.1	2148.4	2087.0	2008.8
12.5°	2244.8	2247.2	2249.6	2254.9	2244.8	2242.9	2226.6	2203.5	2163.7	2100.0	2011.7
15°	2228.5	2233.3	2250.5	2271.2	2273.6	2271.6	2261.1	2239.5	2199.2	2133.0	2032.3
17.5°	2228.5	2236.1	2272.1	2311.4	2325.3	2326.8	2317.7	2287.5	2239.5	2168.5	2051.5
20°	2247.2	2257.7	2313.8	2369.5	2392.5	2392.5	2374.7	2332.5	2276.4	2200.7	2064.5
22.5°	2295.1	2309.0	2379.5	2443.8	2468.3	2463.0	2439.0	2377.6	2314.8	2237.1	2080.8
25°	2389.6	2400.2	2473.5	2538.3	2553.1	2541.1	2510.9	2432.3	2363.7	2286.5	2110.5
27.5°	2511.4	2512.9	2588.6	2643.3	2634.2	2626.0	2588.1	2500.9	2434.2	2357.0	2161.8
30°	2645.2	2645.2	2711.9	2753.6	2725.8	2719.1	2681.2	2583.8	2524.4	2452.9	2234.7
32.5°	2774.7	2780.4	2834.6	2861.0	2829.8	2823.1	2786.2	2688.8	2644.2	2599.2	2348.4
35°	2899.8	2904.2	2955.5	2969.9	2940.1	2942.1	2915.7	2833.2	2816.4	2810.7	2519.6
37.5°	3021.2	3022.1	3074.4	3083.5	3068.7	3085.0	3087.4	3014.5	3045.6	3092.1	2760.8
40°	3132.0	3132.9	3184.7	3208.2	3233.6	3254.7	3273.4	3234.6	3337.7	3445.6	3048.0
42.5°	3220.7	3230.7	3296.4	3341.0	3408.2	3448.5	3499.3	3497.4	3685.4	3847.4	3395.2
45°	3298.8	3316.1	3407.7	3485.9	3601.0	3665.2	3744.8	3807.2	4076.7	4294.9	3746.7
47.5°	3401.9	3418.2	3522.8	3650.8	3804.3	3888.7	4020.6	4155.3	4506.8	4734.1	4090.1
50°	3547.2	3540.1	3643.2	3826.8	4023.9	4134.7	4322.7	4524.6	4933.6	5116.8	4292.0
52.5°	3702.1	3699.3	3775.5	4018.2	4282.9	4412.4	4660.8	4906.3	5341.7	5380.6	4384.5
55°	3894.0	3873.3	3937.6	4236.4	4590.3	4729.3	5021.9	5284.2	5666.9	5529.2	4431.1
57.5°	4094.9	4060.8	4122.2	4479.5	4937.0	5101.5	5421.8	5652.5	5883.1	5630.9	4430.6
60°	4302.5	4262.3	4335.1	4783.5	5367.6	5558.0	5855.3	5901.4	6085.0	5682.2	4398.0
62.5°	4476.1	4452.2	4560.5	5108.7	5848.6	6035.6	6182.9	6127.7	6255.3	5722.0	4321.7
65°	4659.8	4661.2	4836.3	5488.0	6359.8	6485.9	6498.4	6421.2	6397.7	5713.9	4063.7
67.5°	4908.2	4931.2	5223.3	6003.0	6857.1	6954.5	6953.5	6739.1	6501.8	5389.7	3491.6
70°	5171.0	5225.2	5669.3	6592.4	7400.0	7498.8	7447.9	6941.5	6122.0	4358.2	2471.1
72.5°	5126.9	5220.9	5917.2	6964.1	7789.8	7865.1	7534.7	6444.2	4838.7	2533.0	1052.1
75°	3955.3	4064.2	5425.6	6595.8	7380.8	7313.2	6473.9	5014.7	2644.2	706.9	236.9
77.5°	2089.4	2147.4	3584.2	5024.7	5755.1	5613.6	4560.5	2781.9	806.1	175.0	106.5
80°	1094.3	1107.8	1561.9	2850.9	3552.0	3553.0	2702.8	1221.9	332.3	89.7	71.5
82.5°	586.0	597.5	825.3	1317.3	1861.1	1687.1	1034.9	672.3	193.3	50.8	68.6
85°	141.0	143.4	468.0	601.8	731.8	522.7	307.4	564.4	52.3	29.7	55.6
87.5°	54.2	55.1	173.6	260.4	186.5	120.8	143.9	210.5	6.7	11.5	8.6
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°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2.5°	2102.4	2089.9	2059.2	2020.4	1985.8	1960.9	1923.5	1899.0	1882.7	1882.2	1876.0
5°	2049.1	2023.7	1957.5	1878.9	1807.4	1743.2	1667.4	1607.5	1562.9	1555.7	1540.3
7.5°	1992.1	1950.3	1848.7	1725.9	1606.0	1484.2	1342.7	1255.0	1179.7	1143.7	1139.9
10°	1957.1	1898.5	1754.2	1576.8	1388.8	1190.7	1005.6	877.6	785.0	758.7	739.0
12.5°	1949.9	1872.6	1681.3	1436.7	1168.2	906.4	701.6	565.4	491.5	468.0	461.8
15°	1957.1	1860.7	1619.9	1298.1	944.7	643.1	470.9	391.8	364.0	357.3	356.8
17.5°	1961.4	1846.3	1550.4	1144.2	728.0	459.4	360.6	337.6	333.3	332.8	333.8
20°	1960.9	1824.2	1467.4	972.5	541.4	361.1	326.1	321.3	320.3	320.8	320.3
22.5°	1957.5	1798.3	1376.3	795.6	409.1	322.7	311.2	308.4	307.9	307.9	307.9
25°	1963.8	1777.7	1276.1	626.3	337.1	305.0	297.8	295.4	294.9	294.9	294.0
27.5°	1986.3	1766.2	1166.3	481.9	304.5	289.2	283.4	282.9	281.5	281.0	282.0
30°	2022.7	1766.2	1045.9	375.0	284.9	272.9	268.5	267.6	267.1	266.6	267.1
32.5°	2087.0	1779.6	914.5	311.7	266.2	254.6	251.8	253.2	251.8	251.8	251.8
35°	2203.1	1819.9	776.9	271.9	246.5	236.9	234.0	235.9	235.0	235.0	234.5
37.5°	2372.3	1894.7	638.3	247.9	229.2	219.2	215.3	218.2	217.2	217.2	216.8
40°	2578.5	2003.6	506.4	229.7	212.4	201.9	198.5	200.0	197.6	197.6	198.5
42.5°	2833.2	2141.7	391.3	212.0	195.7	185.6	183.7	182.2	177.9	175.5	176.0
45°	3116.1	2285.5	305.0	194.7	179.8	171.7	168.8	165.0	157.8	153.0	153.5
47.5°	3368.9	2396.3	247.9	177.9	165.4	159.2	154.9	147.7	137.2	131.4	131.9
50°	3501.7	2413.1	211.0	161.1	152.0	145.8	139.5	128.5	116.1	109.8	109.3
52.5°	3535.7	2334.5	183.7	145.8	138.6	131.4	123.2	108.4	94.5	87.8	86.8
55°	3548.2	2214.6	159.2	131.4	124.2	116.1	105.5	88.7	75.8	69.1	68.6
57.5°	3507.0	2035.7	140.0	118.4	109.8	99.7	86.8	71.0	58.5	53.2	53.2
60°	3415.4	1793.5	125.2	104.5	95.0	83.4	70.0	55.1	43.6	39.3	39.3
62.5°	3232.7	1479.9	111.3	90.2	81.0	69.1	56.6	41.7	30.7	28.3	28.8
65°	2887.9	1122.6	97.3	77.2	69.1	57.1	44.1	29.7	20.6	20.6	21.6
67.5°	2355.1	779.8	83.0	65.7	59.5	46.5	33.6	20.6	14.4	16.3	18.2
70°	1559.0	437.4	71.0	54.2	50.8	36.9	24.9	13.9	11.5	15.3	18.7
72.5°	588.4	170.2	59.5	43.6	44.1	28.3	17.7	10.6	10.6	16.8	22.1
75°	164.0	83.4	42.7	32.1	34.5	20.6	12.9	9.1	10.1	19.2	25.9
77.5°	96.4	61.4	27.8	18.7	23.5	14.4	8.6	7.2	8.6	16.3	24.9
80°	77.7	32.6	16.3	9.6	12.9	8.2	5.8	4.3	2.4	6.2	12.9
82.5°	77.7	19.7	7.7	6.7	6.7	4.3	2.9	1.9	0.5	0.0	3.4
85°	52.3	8.2	4.8	4.3	3.4	1.4	1.0	0.5	0.0	0.0	0.0
87.5°	8.6	3.4	1.9	1.0	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)