

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: P322218

Luminaire Tested: **GAN-SA4D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20771 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

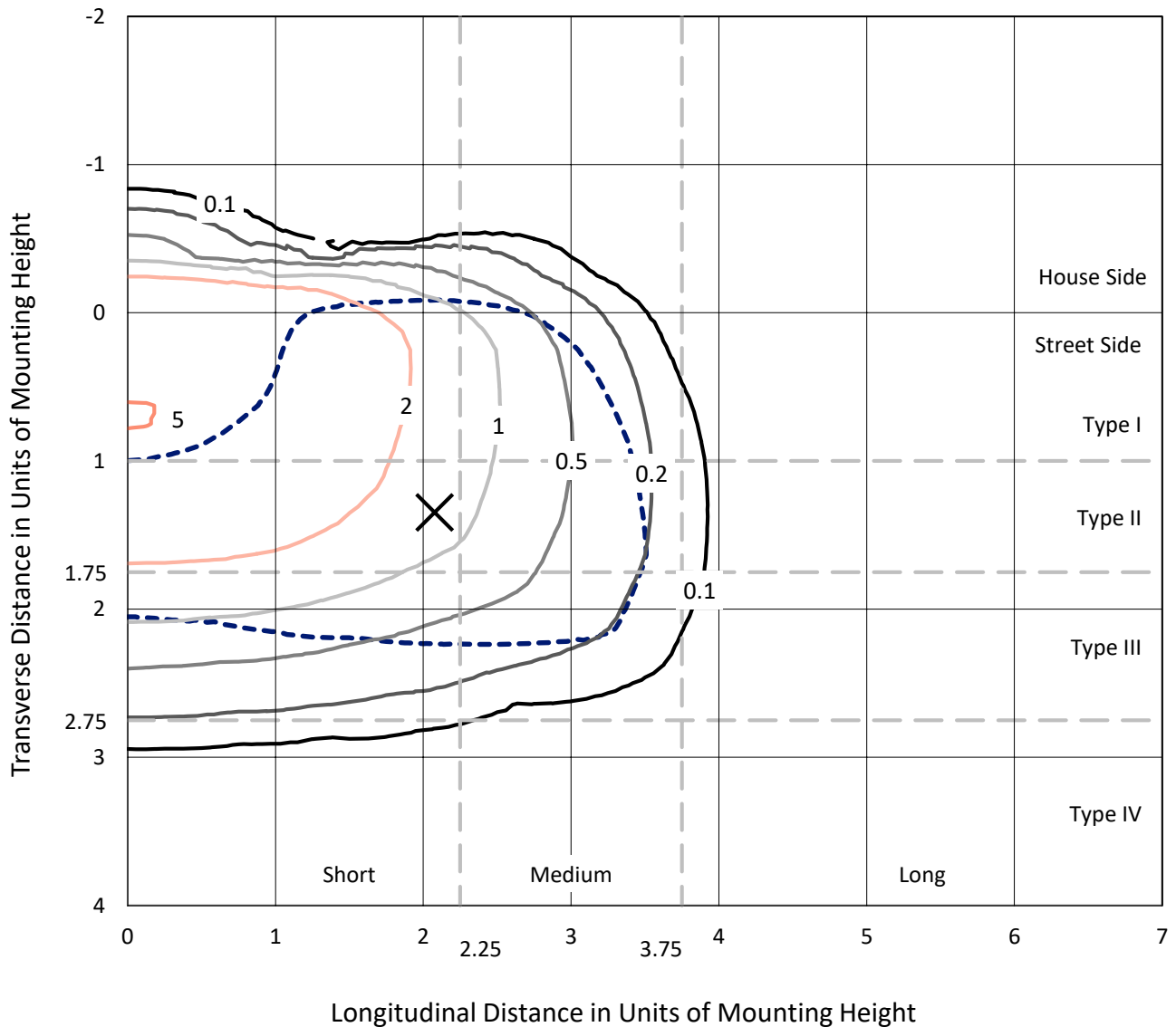
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

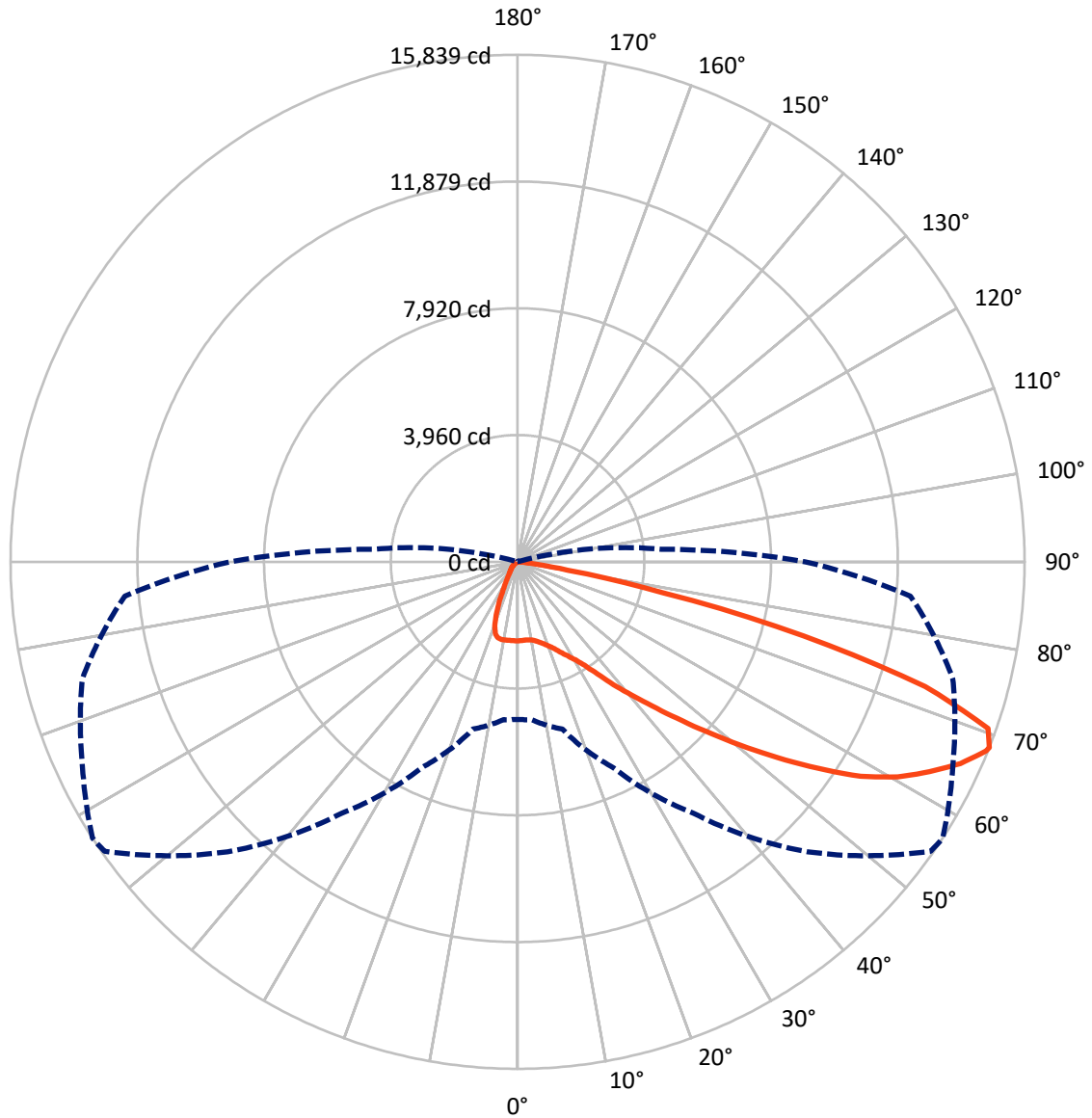
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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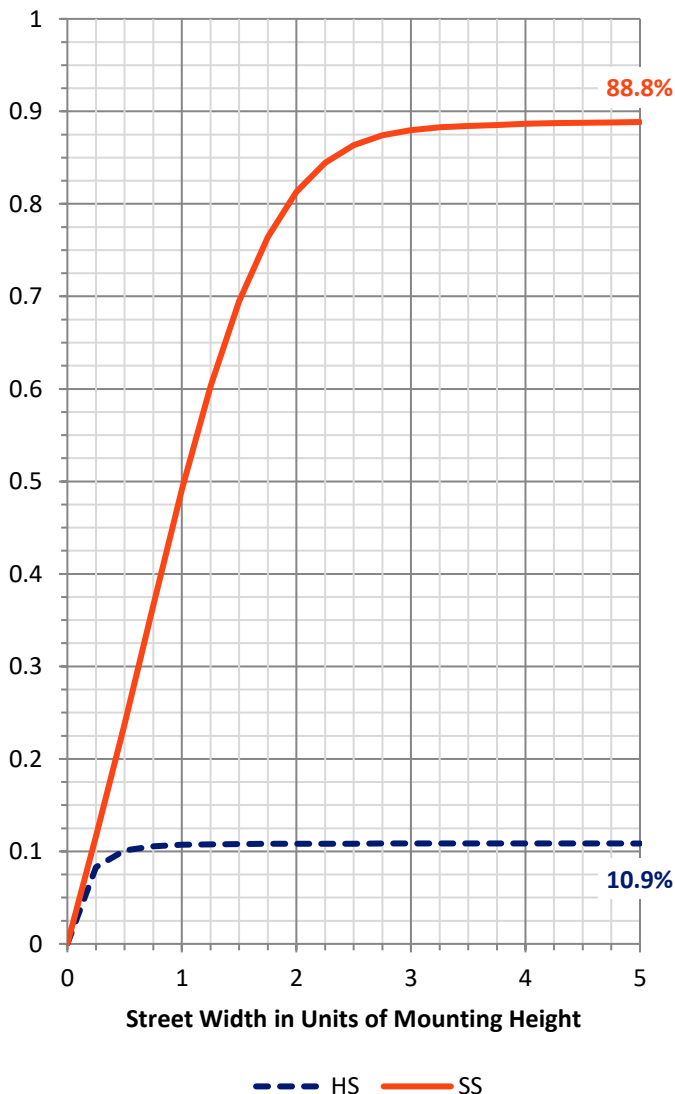
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.7	0.0	2277.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18493.3	0.0	18493.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	20771.0	0.0	20771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.1
10°-20°	640.1	3.1
20°-30°	1104.2	5.3
30°-40°	1905.8	9.2
40°-50°	3259.8	15.7
50°-60°	5215.4	25.1
60°-70°	6025.9	29.0
70°-80°	2302.6	11.1
80°-90°	86.3	0.4
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°	20771.0	100.0
0°-180°	20771.0	100.0

Coefficient of Utilization

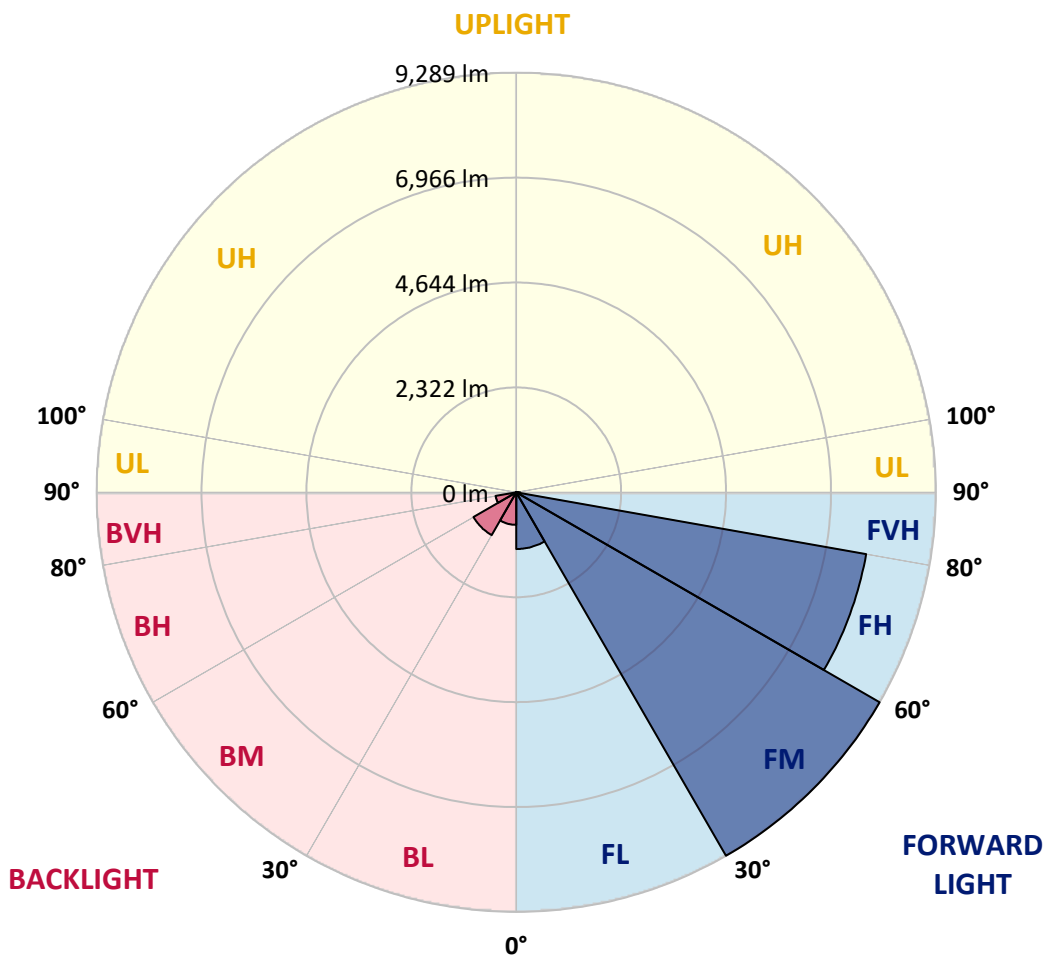


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.4	6.0			
FM (30°-60°)	9288.6	44.7			
FH (60°-80°)	7864.6	37.9			G4/12000
FVH (80°-90°)	84.7	0.4			G1/100
BL (0°-30°)	719.8	3.5	B2/1000		
BM (30°-60°)	1092.4	5.3	B2/2500		
BH (60°-80°)	463.9	2.2	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2410.2	2421.0	2428.9	2433.8	2439.7	2452.4	2456.4	2462.2	2465.2	2465.2	2472.1
5°	2314.9	2326.7	2343.4	2357.2	2384.7	2420.0	2445.6	2455.4	2473.1	2488.8	2497.6
7.5°	2226.5	2240.3	2259.9	2292.3	2339.5	2396.4	2449.5	2463.2	2497.6	2531.0	2547.7
10°	2169.6	2180.4	2205.9	2252.1	2313.9	2393.5	2468.1	2484.8	2543.8	2599.8	2631.2
12.5°	2149.9	2159.7	2186.3	2238.3	2314.9	2408.2	2511.4	2535.9	2622.3	2703.9	2748.1
15°	2178.4	2180.4	2208.9	2258.0	2333.6	2444.6	2583.1	2612.5	2721.5	2827.6	2882.6
17.5°	2288.4	2279.6	2294.3	2315.9	2375.8	2492.7	2658.7	2702.9	2848.2	2973.0	3025.0
20°	2563.4	2563.4	2530.0	2471.1	2472.1	2567.3	2760.8	2810.9	2988.7	3133.1	3180.2
22.5°	3033.9	3025.0	2958.2	2813.9	2681.3	2696.0	2885.6	2950.4	3157.6	3311.8	3327.5
25°	3599.6	3588.8	3485.6	3282.3	3052.5	2904.2	3054.5	3129.1	3359.0	3495.5	3463.1
27.5°	4198.7	4189.9	4087.7	3835.3	3508.2	3236.2	3255.8	3326.5	3564.2	3698.8	3595.7
30°	4779.1	4782.1	4680.9	4421.6	4051.4	3659.5	3511.2	3552.4	3763.6	3900.1	3752.8
32.5°	5331.1	5335.0	5247.6	4957.9	4612.2	4151.5	3864.8	3854.0	3995.4	4129.9	3961.0
35°	5823.2	5833.0	5773.1	5548.2	5181.8	4699.6	4323.4	4297.9	4324.4	4476.6	4280.2
37.5°	6297.5	6303.4	6258.3	6068.7	5762.3	5301.6	4902.9	4866.6	4809.6	4926.5	4701.6
40°	6817.1	6802.4	6750.3	6578.4	6315.2	5966.6	5525.6	5462.7	5363.5	5467.6	5255.5
42.5°	7300.3	7283.6	7292.5	7098.0	6876.0	6650.1	6251.4	6143.3	6085.4	6205.2	5935.1
45°	7904.3	7895.5	7925.0	7756.0	7576.3	7412.3	7083.3	6965.4	6939.9	7080.3	6757.2
47.5°	8500.5	8522.1	8613.5	8541.8	8469.1	8324.7	7964.3	7911.2	7926.9	8096.8	7624.4
50°	8997.5	9023.0	9273.5	9356.0	9461.0	9376.6	9015.2	8982.7	9044.6	9197.8	8557.5
52.5°	9356.9	9409.0	9720.3	10100.4	10483.5	10540.4	10180.0	10150.5	10234.0	10257.6	9278.4
55°	9606.4	9652.6	10005.2	10700.5	11480.3	11725.9	11502.0	11388.0	11372.3	11139.5	10036.6
57.5°	9650.6	9645.7	10152.5	11088.5	12262.1	12895.6	12754.2	12642.2	12320.1	11954.7	10905.8
60°	9401.1	9429.6	10017.9	11223.0	12753.2	13780.5	13791.3	13646.0	13144.1	12747.3	11748.5
62.5°	8633.1	8749.0	9343.2	10870.4	12747.3	14137.1	14551.5	14440.5	13840.5	13396.5	12602.9
65°	7387.7	7429.0	7995.7	9662.4	11886.0	13987.8	15236.1	15194.8	14468.0	14027.1	13042.0
67.5°	5394.9	5305.6	5900.8	7608.7	10063.1	13117.6	15727.2	15779.2	14952.2	14156.7	12574.5
68°	4923.5	4950.0	5413.6	7100.9	9585.8	12810.2	15759.6	15839.1	15000.4	14072.2	12319.1
70°	2934.7	2985.7	3399.2	4889.1	7292.5	11070.8	15409.9	15591.6	14713.6	13201.1	10655.3
72.5°	749.4	810.3	1201.2	2188.2	4165.3	7800.2	13008.6	13316.0	12774.8	10709.4	7193.3
75°	308.4	324.1	429.2	720.9	1551.8	3514.1	8574.2	9232.2	8856.0	6411.5	3250.9
77.5°	213.1	223.9	276.0	399.7	671.8	1191.3	4203.6	4679.0	4215.4	2188.2	709.1
80°	153.2	162.1	197.4	266.2	386.0	425.3	1370.1	1584.2	1258.1	480.3	175.8
82.5°	91.3	98.2	147.3	189.6	234.7	203.3	340.8	387.0	364.4	238.7	78.6
85°	45.2	53.0	99.2	135.5	126.7	85.4	104.1	115.9	143.4	145.4	42.2
87.5°	2.9	5.9	57.9	81.5	35.4	19.6	30.4	37.3	51.1	71.7	17.7
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°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2475.0	2476.0	2469.1	2466.2	2468.1	2456.4	2451.4	2453.4	2453.4	2456.4	2451.4
5°	2499.6	2499.6	2487.8	2472.1	2463.2	2440.6	2425.9	2422.0	2419.0	2417.1	2413.1
7.5°	2552.6	2546.7	2526.1	2491.7	2462.2	2413.1	2375.8	2356.2	2346.4	2342.4	2339.5
10°	2638.1	2627.3	2592.9	2529.0	2461.3	2373.9	2292.3	2234.4	2186.3	2166.6	2154.8
12.5°	2753.0	2737.3	2679.3	2573.2	2454.4	2293.3	2116.5	1946.6	1788.5	1723.7	1691.3
15°	2885.6	2863.0	2771.6	2610.6	2414.1	2111.6	1727.6	1430.0	1211.0	1128.5	1093.1
17.5°	3020.1	2990.6	2852.2	2634.1	2293.3	1735.5	1212.0	915.4	769.0	729.7	716.0
20°	3155.6	3112.4	2921.9	2616.4	2020.3	1251.3	799.5	668.8	626.6	614.8	610.9
22.5°	3284.3	3217.5	2984.8	2547.7	1599.9	839.7	632.5	591.3	577.5	570.6	568.7
25°	3396.3	3303.0	3039.8	2335.6	1132.4	634.5	569.6	555.9	538.2	525.5	526.4
27.5°	3501.4	3388.4	3073.1	1985.9	755.3	542.1	527.4	508.8	476.3	457.7	457.7
30°	3628.1	3502.3	3097.7	1528.2	555.9	479.3	467.5	439.0	394.8	370.3	370.3
32.5°	3818.6	3675.2	3082.0	1072.5	460.6	421.3	393.8	354.6	306.4	282.9	281.9
35°	4110.3	3942.3	2970.0	703.2	406.6	366.3	322.1	274.0	231.8	212.1	211.2
37.5°	4503.2	4299.9	2718.6	502.9	364.4	315.3	262.2	209.2	177.8	165.0	164.0
40°	5012.9	4715.3	2359.1	407.6	325.1	266.2	202.3	162.1	140.4	130.6	131.6
42.5°	5624.8	5160.2	1928.0	351.6	286.8	219.0	158.1	127.7	113.9	107.1	105.1
45°	6304.4	5599.2	1476.2	313.3	248.5	176.8	123.8	101.2	90.4	86.4	86.4
47.5°	7051.8	6026.5	1080.4	279.9	207.2	136.5	99.2	82.5	73.7	70.7	69.7
50°	7730.5	6323.1	778.8	244.6	169.9	108.0	80.5	68.8	62.9	58.9	58.9
52.5°	8296.2	6416.4	573.6	206.3	137.5	86.4	66.8	58.9	53.0	50.1	50.1
55°	8794.2	6378.1	426.3	169.9	111.0	70.7	57.0	50.1	45.2	42.2	42.2
57.5°	9271.5	6254.3	318.2	138.5	89.4	57.0	48.1	42.2	37.3	35.4	35.4
60°	9661.4	6048.1	236.7	112.0	71.7	46.2	40.3	34.4	30.4	27.5	27.5
62.5°	9977.7	5820.2	173.8	92.3	57.0	36.3	31.4	28.5	22.6	19.6	19.6
65°	9979.6	5442.1	130.6	76.6	44.2	28.5	23.6	22.6	14.7	11.8	10.8
67.5°	9257.7	4691.7	100.2	65.8	34.4	21.6	17.7	18.7	7.9	4.9	3.9
68°	8995.5	4501.2	94.3	64.8	32.4	20.6	16.7	18.7	6.9	3.9	2.9
70°	7584.2	3580.9	75.6	62.9	28.5	15.7	13.8	18.7	5.9	2.9	2.0
72.5°	4850.8	2078.2	56.0	50.1	21.6	11.8	8.8	16.7	5.9	2.0	1.0
75°	2064.5	644.3	38.3	35.4	12.8	8.8	5.9	10.8	3.9	1.0	0.0
77.5°	435.1	145.4	22.6	21.6	8.8	5.9	3.9	2.9	1.0	0.0	0.0
80°	112.0	42.2	11.8	10.8	4.9	2.9	2.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	2.9	1.0	0.0	0.0	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)