

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: P323108

Luminaire Tested: **GAN-SA4A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13022 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

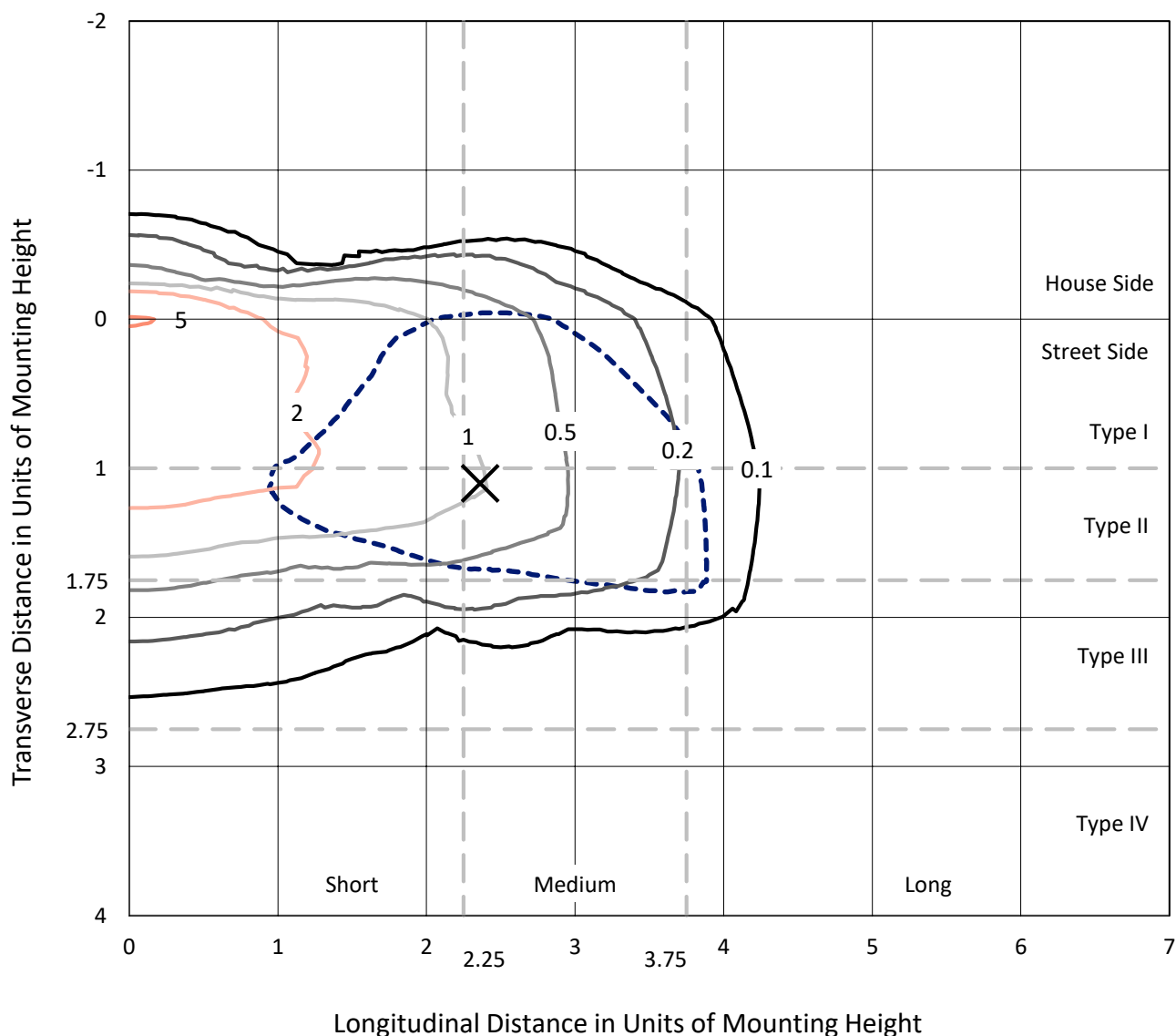
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323108
 CATALOG NUMBER: GAN-SA4A-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

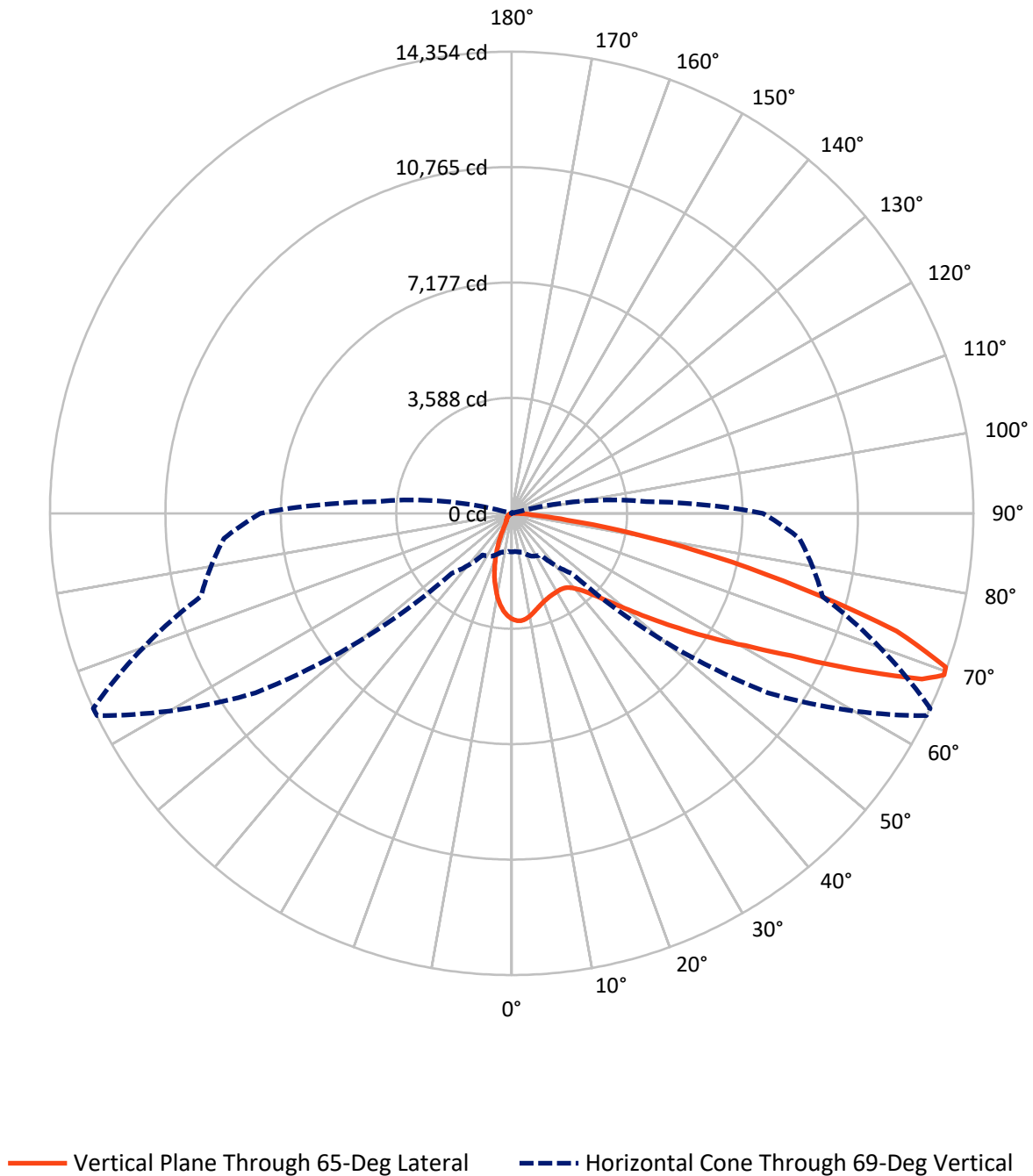
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P323108
CATALOG NUMBER: GAN-SA4A-727-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323108

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.0	0.0	1535.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11487.0	0.0	11487.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	13022.0	0.0	13022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	2.1
10°-20°	602.4	4.6
20°-30°	834.3	6.4
30°-40°	1163.3	8.9
40°-50°	1808.1	13.9
50°-60°	2902.7	22.3
60°-70°	3283.4	25.2
70°-80°	1928.4	14.8
80°-90°	224.3	1.7
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°	13022.0	100.0
0°-180°	13022.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323108

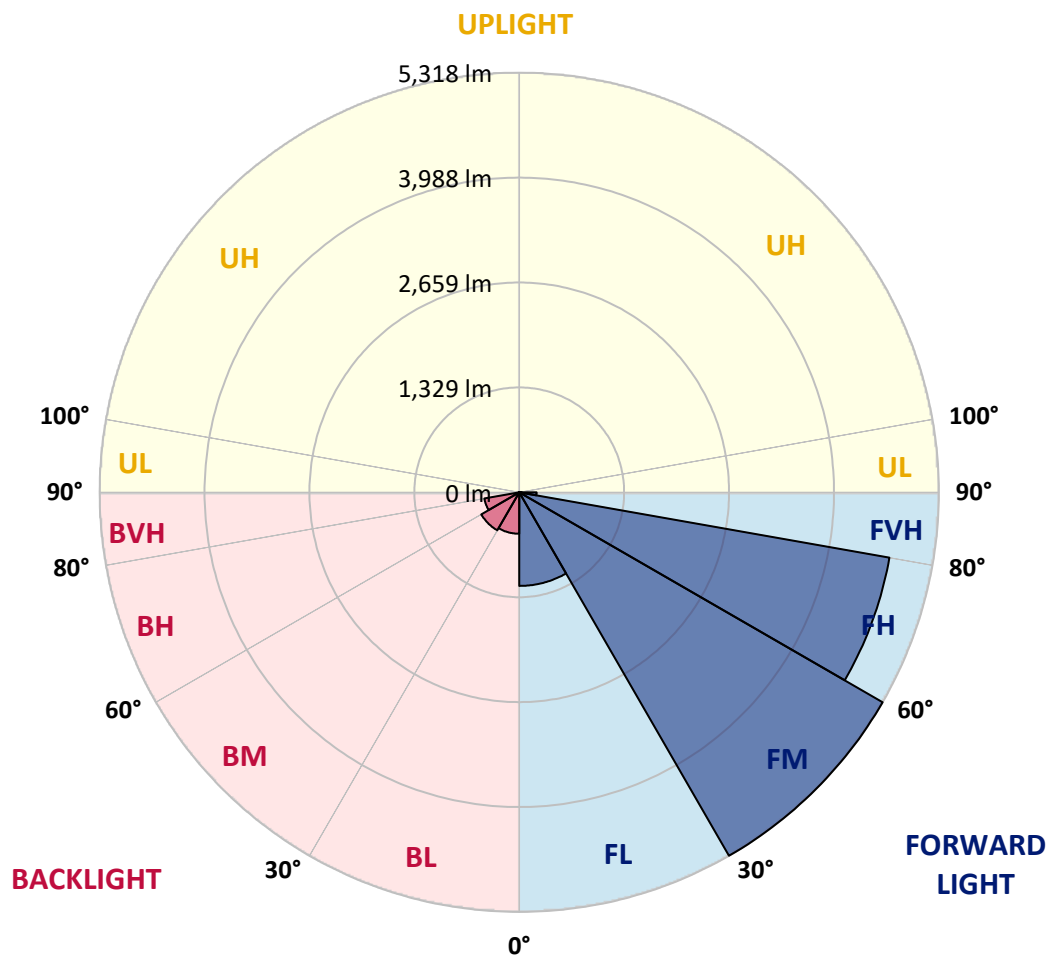
CATALOG NUMBER: GAN-SA4A-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1186.6	9.1			
FM	(30°-60°)	5317.8	40.8			
FH	(60°-80°)	4763.3	36.6			G2/5000
FVH	(80°-90°)	219.3	1.7			G2/225
BL	(0°-30°)	525.2	4.0	B2/1000		
BM	(30°-60°)	556.2	4.3	B1/1000		
BH	(60°-80°)	448.5	3.4	B1/500		G1/500
BVH	(80°-90°)	5.1	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-G2

Type III Medium



REPORT NUMBER: P323108

CATALOG NUMBER: GAN-SA4A-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7
2.5°	3319.9	3311.6	3318.2	3332.6	3339.7	3339.7	3345.2	3338.6	3340.8	3324.8	3301.7
5°	3112.2	3099.5	3117.7	3157.9	3207.5	3249.9	3312.7	3345.8	3349.1	3349.6	3322.6
7.5°	2888.4	2876.9	2903.9	2951.3	3015.2	3094.0	3203.6	3299.5	3305.0	3356.8	3337.0
10°	2706.6	2698.3	2729.7	2780.4	2855.4	2943.5	3078.0	3211.3	3227.3	3341.9	3334.8
12.5°	2562.2	2555.6	2585.4	2643.8	2720.4	2817.9	2958.4	3113.3	3134.7	3308.3	3323.7
15°	2457.0	2455.9	2480.7	2536.9	2621.7	2712.7	2856.5	3022.3	3047.1	3271.9	3322.1
17.5°	2401.9	2403.5	2421.7	2469.7	2542.4	2632.8	2770.5	2945.7	2972.7	3239.4	3330.4
20°	2396.4	2398.0	2408.0	2435.0	2493.9	2573.8	2700.5	2881.3	2909.4	3215.2	3343.6
22.5°	2444.9	2443.8	2446.5	2443.8	2476.8	2537.4	2654.3	2831.7	2864.2	3199.2	3354.0
25°	2538.0	2536.3	2535.2	2514.8	2492.8	2525.3	2635.0	2803.6	2834.4	3187.6	3360.1
27.5°	2667.5	2666.4	2664.7	2631.1	2565.0	2544.6	2637.2	2793.1	2819.0	3178.3	3359.0
30°	2837.7	2845.5	2843.3	2796.4	2693.4	2603.6	2660.3	2787.6	2810.2	3160.1	3347.4
32.5°	3037.8	3053.2	3065.3	3015.2	2886.2	2720.4	2713.8	2793.7	2810.2	3146.3	3326.5
35°	3245.5	3265.3	3310.0	3292.3	3122.6	2896.2	2805.8	2830.0	2843.8	3154.0	3316.6
37.5°	3449.9	3473.6	3570.6	3621.8	3432.3	3128.7	2949.1	2919.8	2927.0	3200.9	3327.6
40°	3687.4	3723.2	3870.4	3953.0	3802.0	3440.0	3163.4	3074.1	3076.9	3303.9	3378.8
42.5°	3999.3	4036.2	4195.5	4324.9	4218.6	3833.4	3454.3	3310.0	3307.2	3496.8	3499.5
45°	4379.5	4418.1	4582.8	4726.6	4678.7	4299.6	3826.8	3654.4	3651.0	3800.9	3728.2
47.5°	4810.4	4848.4	4995.5	5143.8	5195.6	4844.0	4301.3	4124.4	4116.7	4223.6	4081.4
50°	5180.1	5204.9	5340.5	5539.9	5773.6	5512.9	4891.4	4721.1	4712.9	4785.0	4599.9
52.5°	5314.6	5328.9	5466.7	5746.0	6329.0	6418.8	5666.7	5447.4	5441.3	5472.7	5290.3
55°	5042.4	5068.3	5237.4	5651.8	6629.9	7442.6	6645.3	6346.6	6300.9	6233.1	6012.2
57.5°	4300.7	4342.0	4523.9	5074.9	6489.3	8254.8	8083.4	7363.8	7296.6	6882.2	6599.0
60°	3222.4	3273.0	3424.0	4018.6	5739.4	8544.1	9654.9	8497.3	8345.7	7399.1	7138.4
62.5°	2211.2	2236.6	2339.1	2726.4	4226.9	8070.2	10969.7	10015.3	9738.7	7961.1	7722.0
65°	1688.9	1697.7	1739.6	1872.9	2517.1	6555.5	11492.6	12018.3	11683.8	8633.4	8327.5
67.5°	1361.0	1353.9	1411.7	1602.4	1685.6	3999.3	10882.6	13913.2	13756.7	9532.1	8937.0
69°	1200.1	1190.2	1249.2	1470.7	1583.1	2643.8	9728.8	14343.6	14353.5	10006.5	8978.8
70°	1080.0	1086.6	1145.0	1392.4	1548.4	2075.1	8626.7	14233.9	14312.2	10183.9	8727.6
72.5°	721.3	738.9	856.3	1156.0	1488.9	1570.4	5208.8	12214.4	12515.3	9784.4	7487.8
75°	406.7	419.9	559.3	871.7	1402.9	1495.5	2751.2	8998.7	9289.6	8182.1	5774.1
77.5°	199.5	206.6	316.3	562.6	1173.1	1424.9	1560.5	6112.4	6444.7	5340.5	3265.9
80°	84.3	88.2	158.1	347.1	838.7	1359.9	1158.8	3761.8	3803.1	2092.2	870.1
82.5°	32.5	33.6	66.7	216.6	532.8	1060.2	969.2	1783.6	1740.7	394.0	198.4
85°	3.9	4.4	24.2	130.0	296.4	545.5	787.4	768.7	711.4	78.2	101.9
87.5°	0.0	0.0	1.7	39.7	88.2	255.7	409.4	319.0	287.6	25.3	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323108

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7	3290.7
2.5°	3282.4	3276.9	3247.2	3204.2	3163.4	3112.7	3064.2	3035.0	3011.9	2996.4	3014.6
5°	3291.2	3267.0	3176.6	3060.9	2947.4	2819.6	2700.5	2599.7	2560.0	2516.0	2535.8
7.5°	3288.5	3242.7	3080.2	2874.1	2665.8	2450.4	2246.5	2089.5	2007.9	1928.0	1948.4
10°	3274.7	3197.6	2951.3	2646.0	2334.1	2024.4	1735.2	1515.3	1392.4	1281.1	1297.1
12.5°	3244.4	3136.9	2799.2	2384.8	1967.7	1559.4	1220.5	938.9	788.0	721.3	729.5
15°	3226.2	3078.0	2638.3	2120.3	1576.5	1086.1	746.1	554.9	486.0	464.0	466.7
17.5°	3217.4	3021.2	2471.9	1817.8	1176.4	691.5	482.1	425.4	410.5	406.7	407.8
20°	3208.6	2963.9	2300.5	1518.6	810.5	465.1	396.2	379.7	374.1	369.2	370.3
22.5°	3193.7	2908.8	2116.5	1215.5	546.6	377.4	357.1	341.1	329.5	323.4	324.5
25°	3175.5	2851.0	1928.6	905.3	398.9	336.7	317.4	294.8	281.0	270.0	270.6
27.5°	3146.3	2779.9	1734.6	659.0	335.0	301.4	275.5	250.7	227.6	214.9	214.9
30°	3105.5	2699.4	1519.2	471.7	300.3	266.7	235.3	204.4	179.6	168.1	167.0
32.5°	3060.4	2615.7	1301.5	357.6	272.8	234.2	198.4	165.9	143.8	134.4	133.9
35°	3021.8	2525.3	1084.4	299.8	245.2	202.8	163.7	136.1	118.5	110.8	110.2
37.5°	2997.0	2435.0	872.8	267.8	220.4	173.6	137.2	112.4	99.7	93.7	93.1
40°	2993.1	2367.7	679.4	243.6	197.3	147.7	114.6	95.3	83.8	77.1	76.6
42.5°	3043.3	2329.2	521.3	223.2	173.6	125.1	97.5	81.6	69.4	62.8	62.3
45°	3175.0	2341.3	401.1	205.0	149.9	105.8	82.7	67.8	56.8	51.8	50.7
47.5°	3415.2	2425.0	319.0	186.8	127.3	89.8	70.5	56.2	46.8	41.9	41.3
50°	3842.8	2621.7	266.7	167.0	106.3	76.6	58.4	45.7	38.0	33.6	33.1
52.5°	4410.4	2972.2	238.0	147.7	88.2	65.0	47.9	36.4	29.8	26.4	25.9
55°	5036.3	3396.5	219.3	126.7	72.2	54.0	38.0	28.7	23.1	20.4	19.3
57.5°	5647.4	3764.0	201.7	106.3	60.1	44.1	30.3	22.6	18.2	15.4	14.9
60°	6208.9	4101.8	181.3	85.4	49.0	34.7	23.7	17.6	14.3	11.6	11.6
62.5°	6810.0	4363.0	153.2	66.7	40.2	26.4	19.3	16.0	11.6	9.9	9.4
65°	7447.0	4556.9	120.1	51.8	31.4	19.8	16.0	16.5	9.4	7.2	6.6
67.5°	7917.6	4518.4	88.7	40.8	24.2	15.4	15.4	17.6	8.3	5.5	5.0
69°	7814.0	4204.8	74.4	35.3	20.9	13.2	14.3	17.6	7.7	5.0	4.4
70°	7513.7	3857.7	65.6	31.4	18.7	12.1	13.8	17.1	7.2	5.0	4.4
72.5°	6257.4	2905.5	51.2	23.7	14.9	9.9	11.6	14.9	7.2	5.0	3.9
75°	4706.8	1859.7	39.1	17.1	11.0	7.7	8.8	11.0	7.2	4.4	3.9
77.5°	2561.1	670.6	28.1	11.6	7.7	6.1	6.1	8.3	6.6	3.3	2.2
80°	658.5	168.6	17.6	7.7	6.1	4.4	3.9	5.5	3.9	0.6	0.0
82.5°	162.6	38.0	9.4	5.5	4.4	1.7	1.7	2.8	1.7	0.0	0.0
85°	89.3	18.7	6.1	3.9	2.2	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	45.7	5.5	1.7	1.1	0.6	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)