

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: P192942

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-7030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 15227.5 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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: 28.75 FT

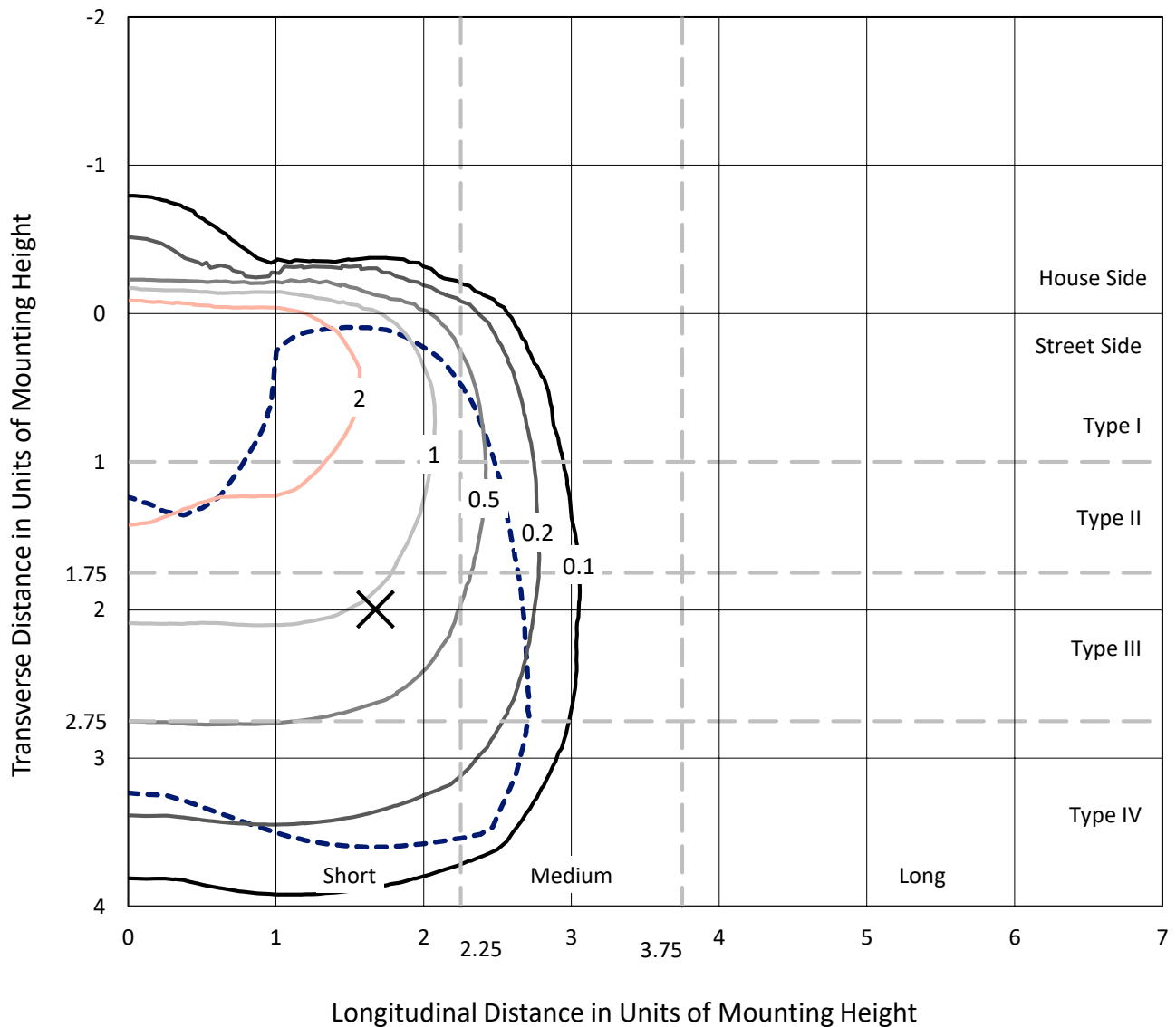


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

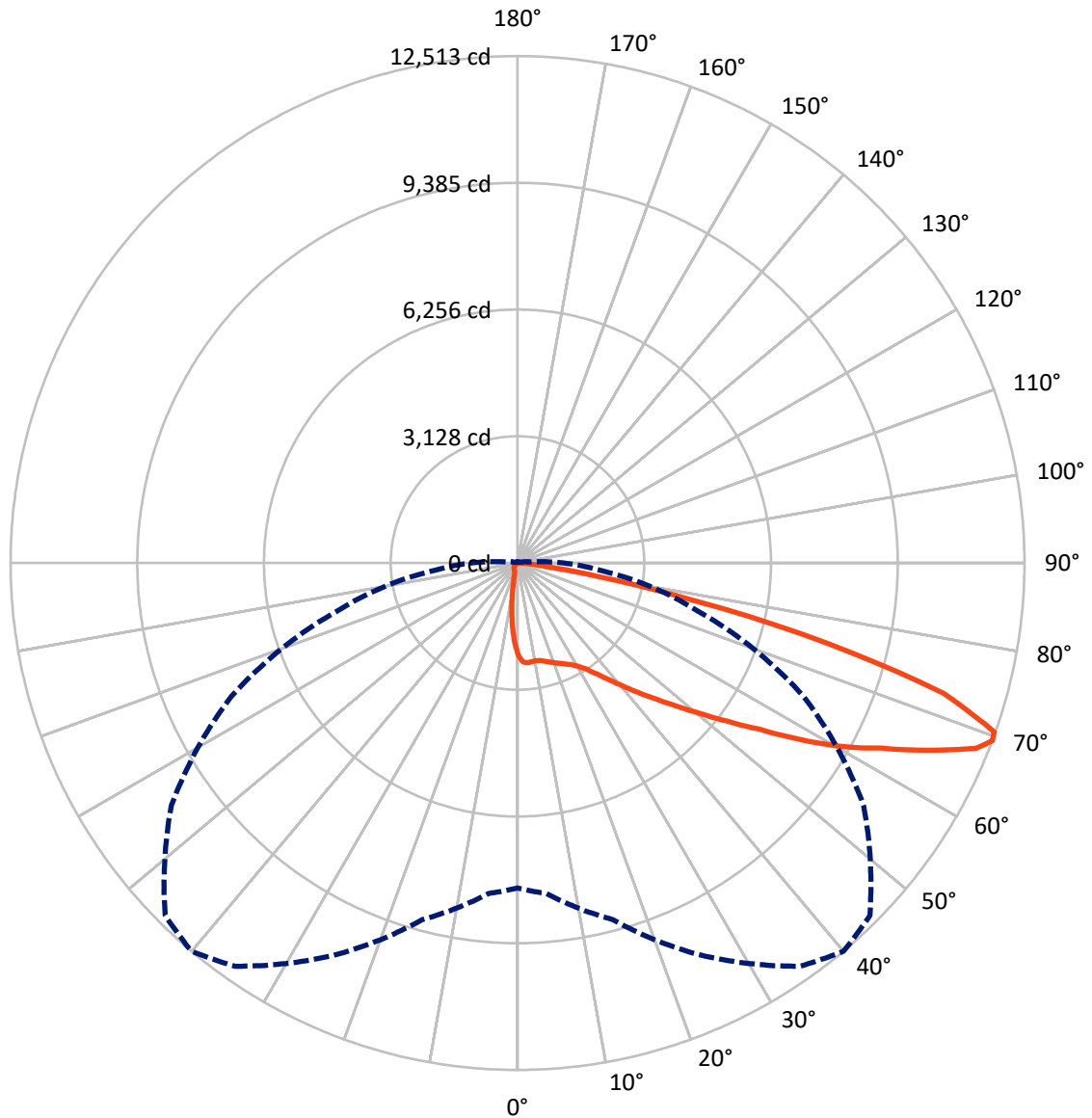


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	890.9	0.0	890.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	14336.6	0.0	14336.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	15227.5	0.0	15227.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	1.2
10°-20°	453.6	3.0
20°-30°	764.1	5.0
30°-40°	1250.8	8.2
40°-50°	2165.7	14.2
50°-60°	3411.2	22.4
60°-70°	4454.9	29.3
70°-80°	2294.5	15.1
80°-90°	248.2	1.6
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°	15227.5	100.0
0°-180°	15227.5	100.0

Coefficient of Utilization



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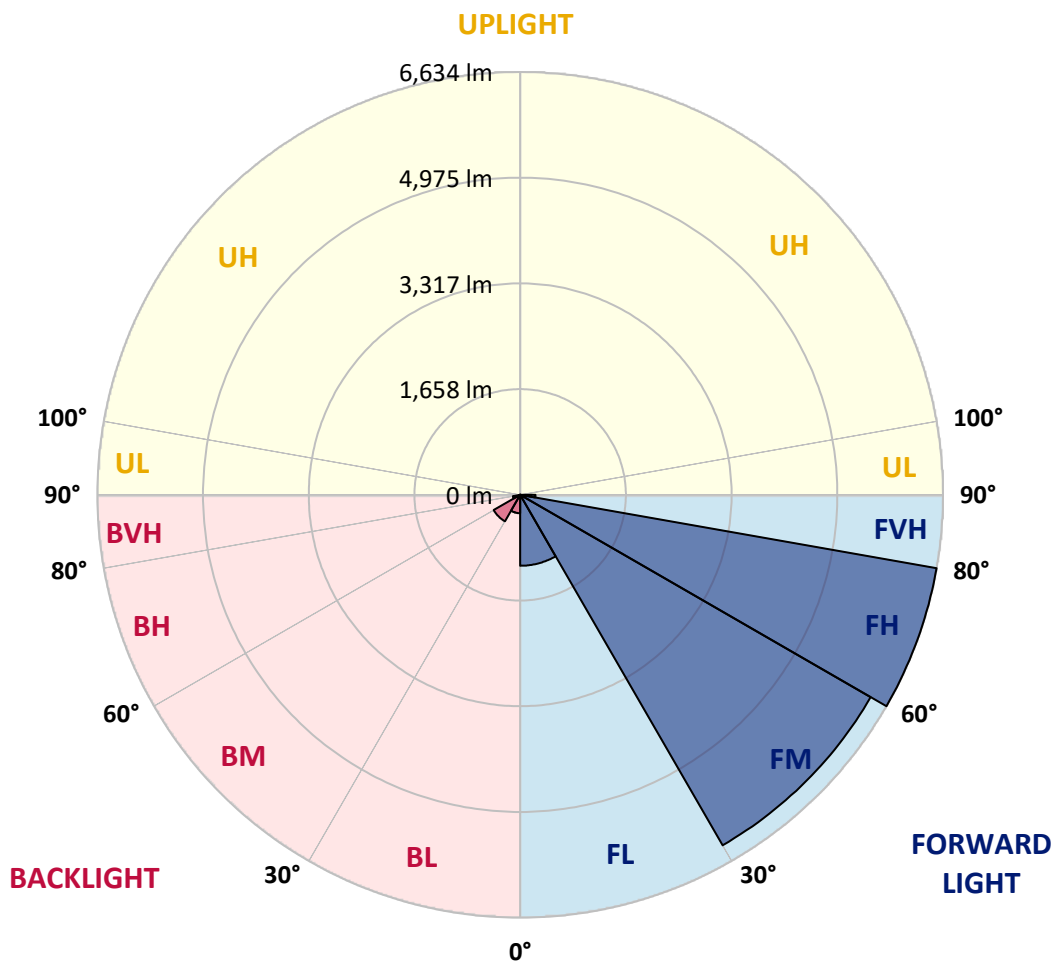
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.6	7.3			
FM (30°-60°)	6348.9	41.7			
FH (60°-80°)	6633.7	43.6			G3/7500
FVH (80°-90°)	240.4	1.6			G3/500
BL (0°-30°)	288.6	1.9	B1/500		
BM (30°-60°)	478.8	3.1	B1/1000		
BH (60°-80°)	115.7	0.8	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			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°	40°	45°	55°	65°	75°	85°
0°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2498.0	2484.4	2476.3	2465.4	2451.8	2440.0	2435.5	2401.9	2370.3	2326.6	2276.9
5°	2544.2	2539.7	2525.2	2510.8	2494.4	2476.3	2466.3	2426.4	2381.1	2317.6	2230.6
7.5°	2548.8	2543.3	2525.2	2505.4	2482.6	2460.8	2443.7	2403.8	2362.0	2297.7	2191.6
10°	2541.6	2535.3	2521.6	2499.9	2471.8	2450.9	2433.6	2395.6	2360.2	2302.2	2184.4
12.5°	2533.4	2527.0	2520.7	2509.8	2485.3	2470.8	2456.3	2420.1	2388.4	2339.5	2210.8
15°	2541.6	2537.9	2545.2	2540.6	2527.0	2514.4	2499.9	2467.2	2438.2	2397.4	2258.7
17.5°	2576.0	2576.0	2598.6	2601.4	2588.7	2570.6	2549.7	2517.2	2492.6	2458.2	2315.9
20°	2656.6	2653.9	2683.0	2688.5	2657.5	2629.5	2598.6	2558.8	2539.7	2518.0	2372.0
22.5°	2795.3	2782.7	2799.9	2794.5	2733.6	2690.2	2652.2	2603.2	2593.2	2583.2	2434.7
25°	2975.6	2968.5	2980.3	2926.7	2819.8	2760.9	2715.5	2660.3	2660.3	2670.3	2505.4
27.5°	3237.7	3210.5	3170.6	3076.3	2915.9	2840.6	2791.7	2732.8	2748.2	2785.3	2598.6
30°	3505.9	3476.1	3384.6	3239.4	3032.8	2954.0	2896.9	2835.2	2871.5	2939.4	2723.8
32.5°	3770.6	3737.1	3607.5	3424.4	3200.5	3121.6	3066.4	2998.4	3059.2	3173.3	2906.9
35°	4027.1	3997.2	3847.7	3631.9	3423.4	3358.2	3307.5	3248.5	3326.5	3486.0	3165.1
37.5°	4315.4	4282.8	4100.5	3866.6	3694.5	3647.4	3610.2	3551.3	3687.3	3921.1	3525.0
40°	4669.7	4614.4	4368.8	4135.9	4008.0	3985.4	3960.1	3951.9	4163.1	4486.6	4004.5
42.5°	5075.8	4985.2	4649.8	4419.6	4352.6	4368.8	4362.5	4398.8	4758.6	5190.1	4588.3
45°	5481.9	5364.9	4962.5	4722.3	4731.4	4788.5	4823.9	4968.9	5504.6	5996.7	5216.4
47.5°	5826.4	5711.2	5262.6	5049.5	5158.3	5270.6	5366.9	5641.4	6271.4	6790.8	5704.9
50°	6120.9	6012.1	5580.8	5409.4	5654.1	5835.4	5991.3	6398.2	7096.2	7395.3	6047.5
52.5°	6362.0	6289.5	5910.6	5821.8	6220.5	6486.1	6714.6	7202.3	7826.8	7886.6	6314.0
55°	6596.7	6545.0	6265.0	6312.1	6885.9	7247.6	7536.7	8055.1	8455.8	8296.3	6569.5
57.5°	6866.8	6819.8	6669.3	6933.9	7760.5	8215.6	8531.1	8811.1	9009.6	8715.1	6810.6
60°	7142.4	7115.2	7118.9	7624.6	8764.9	9201.9	9375.7	9448.3	9553.4	9109.3	6824.3
62.5°	7405.3	7457.0	7632.8	8393.3	9726.6	10061.9	10149.8	10221.4	10098.2	9171.9	6305.0
65°	7850.3	7934.6	8354.3	9422.0	10784.3	11143.3	11233.9	10988.3	10184.3	8363.4	5128.4
67.5°	8067.8	8222.0	8970.6	10380.9	11810.4	12209.1	12175.7	11038.1	9139.2	6377.5	3291.1
69°	8022.6	8186.6	9113.0	10674.6	12151.2	12512.8	12299.9	10428.1	7786.0	4619.9	2020.3
70°	7843.0	8008.9	9039.6	10663.8	12194.7	12481.1	12069.7	9674.9	6583.2	3378.2	1263.5
72.5°	6549.6	6692.9	8025.2	9638.7	11233.9	11001.0	10097.3	6702.8	3207.8	920.0	284.6
75°	4031.6	4111.4	5758.4	7261.2	8484.7	7886.6	6727.3	3334.6	956.2	260.1	157.7
77.5°	2130.0	2166.3	3152.4	4280.0	5378.7	4450.4	3447.9	1300.7	440.6	163.2	114.1
80°	1259.0	1286.2	1697.7	1957.0	2327.7	1944.3	1378.7	798.5	315.4	102.3	101.5
82.5°	720.6	737.8	1231.0	1087.6	917.2	783.2	686.1	756.8	189.4	68.9	105.1
85°	264.6	268.3	692.4	827.5	545.6	324.5	340.8	627.2	50.8	43.4	82.5
87.5°	123.3	120.5	356.1	506.6	319.0	205.7	265.6	137.7	20.0	28.1	22.6
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°	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1	2275.1
2.5°	2247.9	2214.3	2153.6	2091.1	2027.7	1978.6	1930.6	1892.6	1880.0	1856.4	1858.2
5°	2178.9	2117.3	1990.4	1861.8	1727.6	1617.0	1512.8	1428.4	1387.7	1346.0	1346.0
7.5°	2119.2	2029.4	1830.9	1621.5	1405.0	1222.7	1058.7	935.4	867.4	813.0	812.2
10°	2096.4	1975.1	1697.7	1397.7	1095.9	847.6	652.6	527.5	463.2	421.5	419.7
12.5°	2106.5	1956.0	1595.3	1191.0	812.2	544.7	377.9	297.3	270.1	257.5	257.5
15°	2135.5	1950.6	1492.8	988.9	573.7	340.8	251.1	229.3	227.5	227.5	227.5
17.5°	2170.9	1952.4	1387.7	792.2	390.7	243.8	216.7	213.9	215.7	215.7	215.7
20°	2207.0	1953.3	1274.4	610.0	275.6	212.1	204.0	203.0	204.9	204.9	205.7
22.5°	2251.5	1957.8	1161.1	455.9	227.5	200.3	193.9	193.9	194.9	194.9	193.9
25°	2302.2	1966.8	1043.3	338.0	207.6	192.2	186.8	185.8	186.8	185.8	184.8
27.5°	2365.7	1979.6	911.9	264.6	198.6	184.0	179.5	179.5	178.5	177.6	176.8
30°	2445.4	1994.1	764.0	224.7	189.4	176.8	172.2	171.3	170.5	168.6	168.6
32.5°	2566.9	2025.7	618.2	204.0	179.5	166.7	163.2	163.2	161.3	159.5	158.7
35°	2753.7	2088.4	487.7	191.2	168.6	155.9	151.4	151.4	149.5	148.7	147.7
37.5°	3012.0	2183.5	378.9	179.5	157.7	144.1	139.7	138.6	136.9	135.1	134.2
40°	3355.5	2301.3	298.2	168.6	146.9	132.3	128.7	126.8	123.3	120.5	120.5
42.5°	3786.9	2435.5	242.0	156.8	134.2	121.5	118.8	116.1	109.7	107.0	106.1
45°	4238.2	2556.0	204.9	143.2	121.5	110.6	108.8	104.3	96.0	93.3	93.3
47.5°	4563.8	2584.1	180.4	130.6	109.7	98.8	97.9	89.7	82.5	80.7	79.8
50°	4766.8	2528.8	160.4	117.8	98.8	88.0	85.2	75.3	70.7	68.9	68.0
52.5°	4903.7	2430.0	144.1	107.0	88.8	77.9	71.6	64.4	60.7	58.9	58.9
55°	5013.3	2290.5	127.9	97.0	80.7	69.8	60.7	55.2	51.7	49.8	49.8
57.5°	5044.1	2101.0	111.5	88.8	72.5	61.6	51.7	48.1	43.4	42.6	42.6
60°	4820.2	1759.3	98.8	78.8	65.2	53.4	45.4	40.8	36.3	35.4	34.4
62.5°	4230.2	1361.4	87.0	69.8	57.2	46.2	39.0	33.6	29.9	29.9	29.9
65°	3226.8	912.8	76.2	60.7	49.8	39.0	33.6	27.2	25.3	25.3	26.3
67.5°	1931.4	496.7	65.2	51.7	42.6	32.7	28.1	23.6	22.6	23.6	23.6
69°	1132.2	291.8	58.9	46.2	37.1	29.0	24.5	20.9	22.6	23.6	23.6
70°	698.8	196.6	54.4	41.7	33.6	26.3	22.6	20.0	21.8	22.6	22.6
72.5°	194.9	101.5	43.4	32.7	27.2	21.8	18.1	18.1	20.9	21.8	21.8
75°	126.8	75.3	33.6	24.5	20.9	17.3	15.4	17.3	20.0	20.9	20.9
77.5°	105.1	61.6	27.2	20.0	17.3	16.3	14.5	15.4	18.1	19.0	19.0
80°	96.0	43.4	21.8	18.1	15.4	14.5	13.5	12.7	16.3	17.3	17.3
82.5°	91.6	34.4	19.0	16.3	14.5	12.7	11.8	12.7	14.5	15.4	16.3
85°	57.2	22.6	17.3	15.4	12.7	11.8	11.8	11.8	13.5	14.5	14.5
87.5°	20.9	18.1	15.4	12.7	10.9	10.9	10.9	10.9	11.8	13.5	13.5
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)