

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: P322538

Luminaire Tested: **GAN-SA4D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20242 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

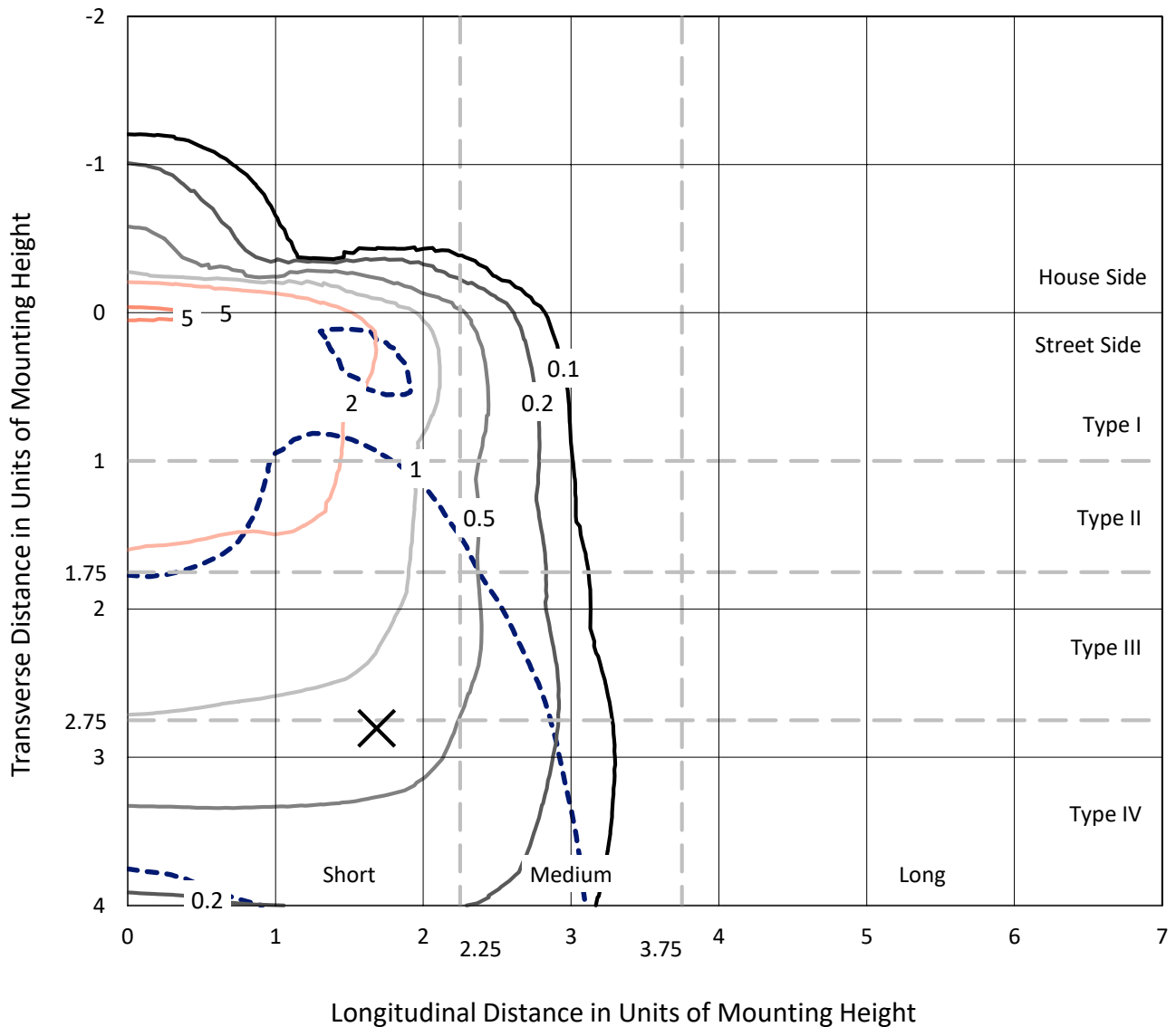
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

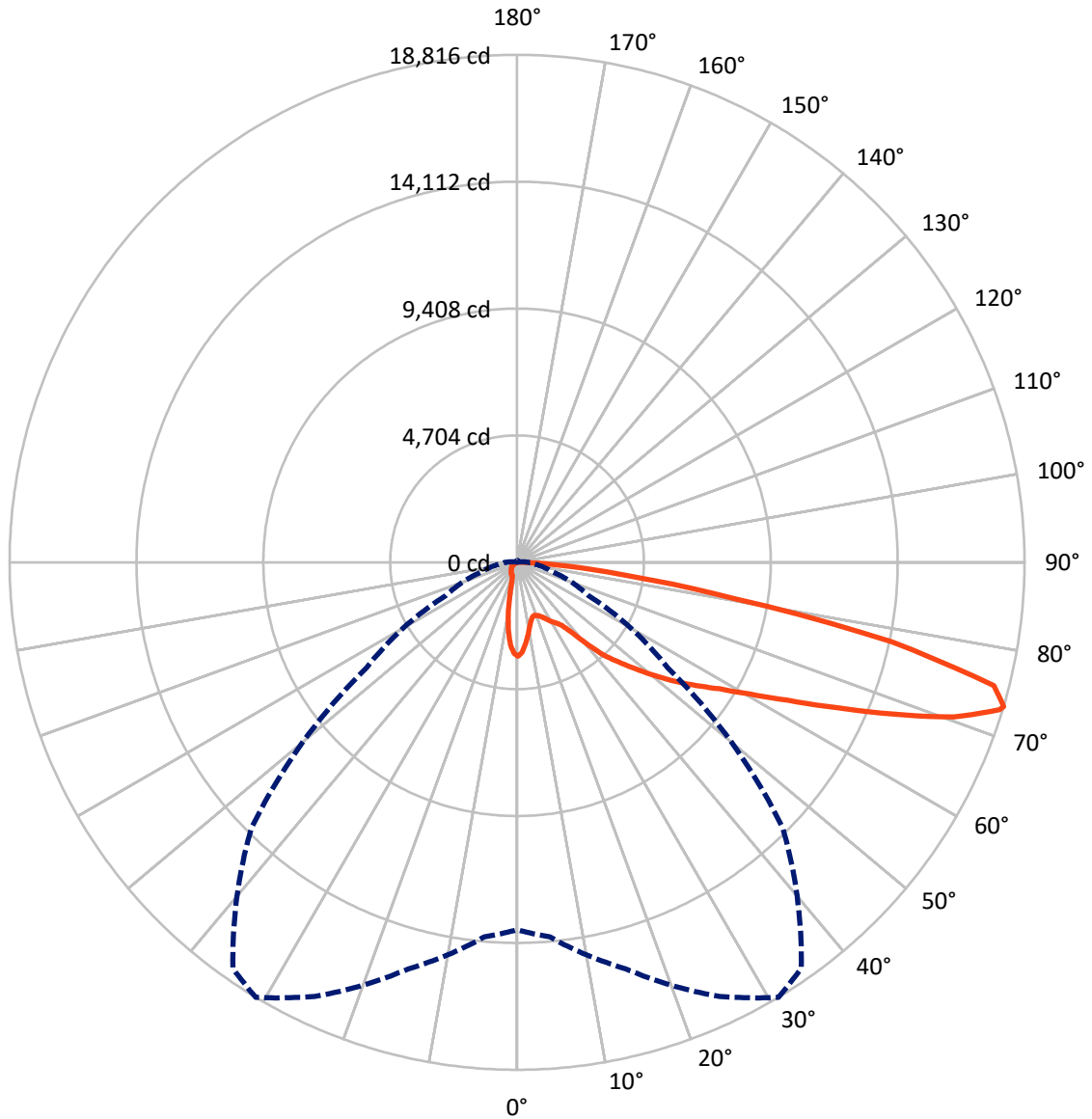
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.1	0.0	1845.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18396.9	0.0	18396.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	20242.0	0.0	20242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	1.4
10°-20°	627.0	3.1
20°-30°	939.4	4.6
30°-40°	1494.6	7.4
40°-50°	2668.9	13.2
50°-60°	4141.4	20.5
60°-70°	5505.5	27.2
70°-80°	4141.2	20.5
80°-90°	435.2	2.1
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°	20242.0	100.0
0°-180°	20242.0	100.0

Coefficient of Utilization

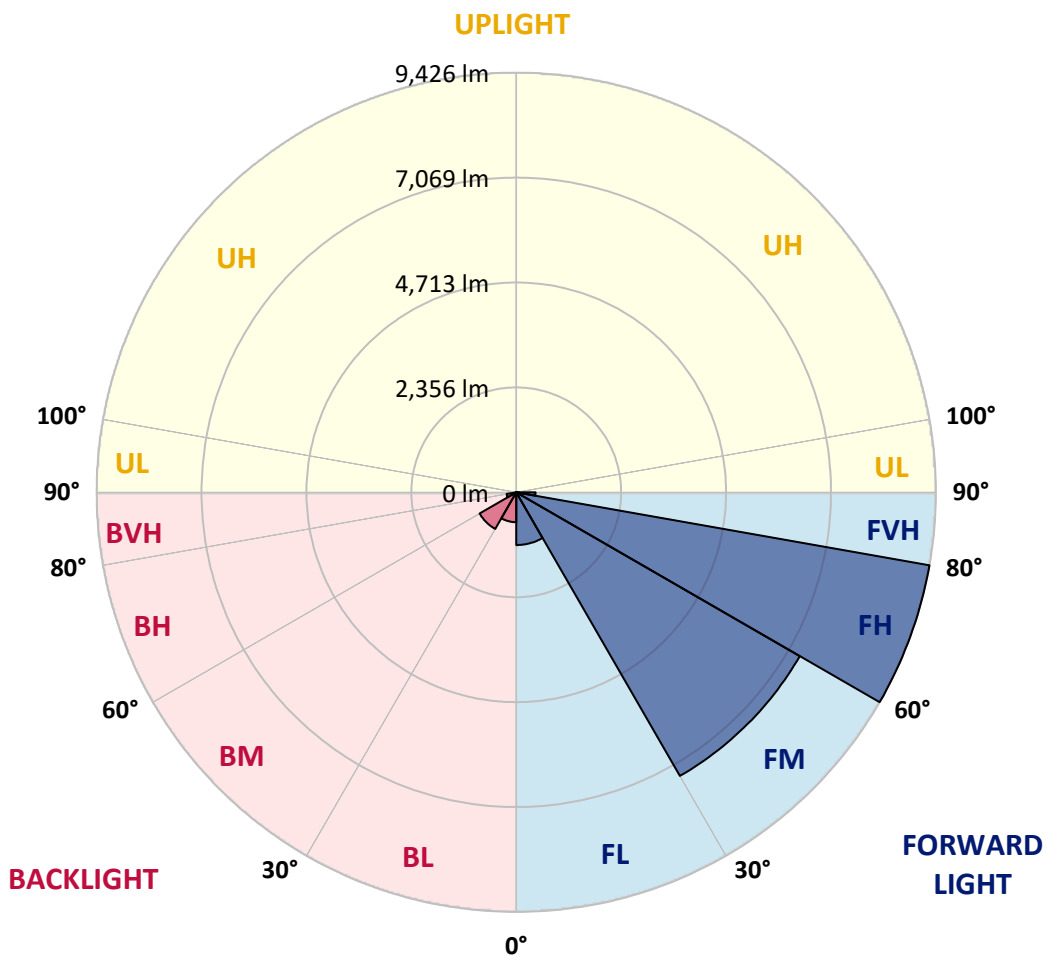


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.2	5.9			
FM (30°-60°)	7355.2	36.3			
FH (60°-80°)	9425.9	46.6			G4/12000
FVH (80°-90°)	431.5	2.1			G3/500
BL (0°-30°)	671.0	3.3	B2/1000		
BM (30°-60°)	949.7	4.7	B1/1000		
BH (60°-80°)	220.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7
2.5°	3300.4	3314.3	3329.1	3332.1	3356.9	3357.9	3393.5	3420.3	3447.0	3472.8	3481.7
5°	2961.7	2984.4	3011.2	3037.9	3090.4	3111.2	3198.4	3287.5	3372.7	3454.0	3493.6
7.5°	2600.1	2625.9	2663.5	2729.9	2788.3	2828.9	2966.6	3125.1	3283.6	3433.2	3519.3
10°	2270.3	2294.1	2333.7	2404.0	2494.1	2549.6	2734.8	2954.7	3187.5	3414.3	3558.0
12.5°	2060.3	2073.2	2095.0	2170.2	2251.5	2313.9	2531.8	2804.2	3108.3	3413.3	3620.4
15°	2021.7	2025.6	2007.8	2041.5	2104.9	2165.3	2386.2	2682.3	3047.8	3429.2	3701.6
17.5°	2083.1	2081.1	2021.7	2017.7	2068.2	2117.7	2314.9	2598.1	3005.2	3465.8	3806.6
20°	2176.2	2169.2	2066.2	2047.4	2100.9	2147.5	2309.9	2566.4	2989.4	3527.3	3934.4
22.5°	2300.0	2288.1	2126.7	2106.8	2164.3	2212.8	2371.3	2597.2	3003.3	3609.5	4082.9
25°	2453.5	2435.7	2230.7	2208.9	2267.3	2315.8	2481.3	2685.3	3044.9	3709.5	4271.1
27.5°	2626.9	2601.1	2397.1	2340.6	2407.0	2457.5	2627.9	2820.0	3110.2	3815.5	4501.9
30°	2790.3	2756.6	2572.4	2479.3	2560.5	2617.0	2786.3	2980.5	3215.2	3978.9	4817.9
32.5°	2954.7	2917.1	2728.9	2618.0	2691.2	2752.7	2949.8	3201.4	3412.4	4228.5	5237.9
35°	3333.1	3293.5	3062.7	2879.4	2878.5	2913.1	3178.6	3503.5	3672.9	4576.2	5739.1
37.5°	3970.0	3947.2	3727.3	3379.7	3286.6	3247.9	3490.6	3864.0	4047.3	5054.6	6304.7
40°	4667.3	4647.5	4400.9	4085.9	3944.3	3849.2	3938.3	4366.2	4576.2	5639.0	6882.2
42.5°	5454.8	5360.7	4920.9	4826.8	4700.0	4627.7	4547.5	4985.3	5226.0	6275.0	7454.7
45°	6170.0	6011.5	5440.9	5298.3	5269.6	5287.4	5332.0	5817.3	5957.0	7030.7	8025.2
47.5°	6595.9	6471.1	6033.3	5896.6	5888.7	6006.5	6343.3	6757.3	6685.0	7689.4	8527.4
50°	7001.0	6888.1	6524.6	6558.3	6594.9	6755.4	7491.3	7724.1	7349.7	8286.7	8988.0
52.5°	7328.9	7156.5	6966.3	7155.5	7335.8	7594.3	8676.0	8591.8	7821.2	8762.2	9382.2
55°	7518.1	7439.8	7531.9	7722.1	8060.9	8480.9	9794.3	9313.9	8165.9	9196.0	9644.7
57.5°	8211.4	8057.9	8241.1	8405.6	8847.3	9434.7	10752.1	9851.7	8414.5	9464.4	9705.1
60°	9050.4	8926.6	9034.6	9307.9	9904.2	10594.6	11647.6	10290.5	8544.2	9636.8	9548.6
62.5°	10385.6	10222.2	10154.8	10460.9	11251.3	12005.1	12327.1	10594.6	8515.5	9560.5	9011.8
65°	12174.5	12005.1	11704.0	11981.4	12986.7	13518.7	13086.8	10659.0	8317.4	8943.4	7654.8
67.5°	14007.0	13884.2	13626.6	14094.1	15001.5	15172.8	13890.1	10502.5	7679.5	7251.6	5408.3
70°	15217.4	15164.9	15332.3	16366.4	17175.7	17126.1	14627.0	9661.6	5985.7	4459.3	2675.4
72.5°	14344.7	14596.3	15832.5	17707.6	18696.1	18292.0	14248.7	7419.0	3421.3	1715.6	773.6
73°	13621.7	13943.6	15607.7	17758.1	18816.0	18373.2	13930.7	6809.8	2916.1	1354.0	586.4
75°	9476.3	9871.5	12921.4	16538.8	18255.3	17505.5	11611.9	4168.1	1351.1	600.3	236.7
77.5°	4601.0	4893.2	7114.9	11949.7	14197.2	13677.1	7228.8	1553.1	610.2	375.4	109.0
80°	1717.6	1909.7	3088.4	6081.8	8204.5	8419.4	3179.6	587.4	406.1	302.1	55.5
82.5°	449.7	501.2	1139.1	2712.1	4204.8	4400.9	1002.4	296.2	297.2	248.6	33.7
85°	143.6	164.4	355.6	1217.4	1981.0	1739.4	261.5	143.6	215.9	185.2	18.8
87.5°	17.8	22.8	112.9	286.3	436.8	242.7	40.6	42.6	92.1	103.0	10.9
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°	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7
2.5°	3490.6	3485.6	3486.6	3460.9	3444.0	3410.4	3375.7	3359.9	3343.0	3336.1	3343.0
5°	3508.4	3499.5	3473.8	3394.5	3310.3	3201.4	3099.3	3022.1	2925.0	2898.3	2926.0
7.5°	3536.2	3518.3	3443.1	3281.6	3094.4	2886.4	2652.6	2482.2	2342.6	2252.4	2285.1
10°	3576.8	3543.1	3391.5	3117.2	2782.4	2413.9	2082.1	1823.6	1640.3	1565.0	1562.1
12.5°	3645.1	3581.7	3328.2	2903.2	2401.0	1909.7	1474.9	1194.6	1046.0	949.9	947.9
15°	3720.4	3627.3	3247.9	2646.7	1957.3	1367.9	949.9	736.9	640.9	610.2	606.2
17.5°	3812.5	3679.8	3143.9	2330.7	1492.7	906.3	620.1	558.7	554.7	551.7	551.7
20°	3928.4	3742.2	3010.2	1969.2	1058.9	605.2	527.0	530.9	532.9	528.9	529.9
22.5°	4063.1	3805.6	2850.7	1580.9	716.1	506.2	504.2	509.1	511.1	509.1	510.1
25°	4219.6	3878.9	2656.6	1173.8	517.1	480.4	485.4	492.3	497.2	497.2	497.2
27.5°	4413.8	3968.0	2422.8	819.2	446.7	453.7	467.5	480.4	487.3	489.3	489.3
30°	4666.4	4079.0	2142.5	561.6	406.1	418.0	443.8	468.5	481.4	483.4	484.4
32.5°	4985.3	4203.8	1817.6	415.0	371.4	380.4	408.1	449.7	474.5	478.4	478.4
35°	5350.8	4348.4	1468.0	361.5	346.7	349.7	371.4	419.0	462.6	473.5	474.5
37.5°	5751.0	4491.0	1116.3	337.8	325.9	325.9	341.7	382.3	433.8	467.5	471.5
40°	6124.4	4577.2	782.5	318.9	307.1	307.1	320.9	350.6	399.2	449.7	460.6
42.5°	6469.1	4606.9	544.8	301.1	289.2	292.2	304.1	327.9	364.5	415.0	424.9
45°	6823.7	4602.0	397.2	280.3	271.4	280.3	289.2	307.1	333.8	362.5	364.5
47.5°	7091.2	4560.4	315.0	260.5	254.6	266.5	274.4	286.3	301.1	299.1	299.1
50°	7341.8	4459.3	253.6	233.8	237.7	251.6	255.6	259.5	260.5	241.7	239.7
52.5°	7531.9	4301.8	203.1	205.0	220.9	234.8	230.8	224.8	214.9	192.2	188.2
55°	7595.3	3998.7	159.5	169.4	196.1	214.0	199.1	186.2	167.4	148.6	144.6
57.5°	7480.4	3607.5	129.8	131.7	165.4	180.3	163.4	148.6	127.8	111.9	109.0
60°	7236.8	3172.6	107.0	99.1	127.8	140.7	129.8	114.9	96.1	84.2	83.2
62.5°	6753.4	2709.1	88.2	77.3	97.1	108.0	101.0	90.1	74.3	66.4	65.4
65°	5737.1	2167.3	71.3	62.4	75.3	84.2	78.3	70.3	58.4	52.5	51.5
67.5°	4004.7	1465.0	58.4	51.5	59.4	66.4	61.4	57.5	46.6	45.6	46.6
70°	1931.5	706.2	48.5	41.6	46.6	51.5	49.5	46.6	44.6	51.5	59.4
72.5°	553.7	236.7	38.6	34.7	37.6	40.6	42.6	41.6	48.5	62.4	72.3
73°	425.9	191.2	36.6	32.7	35.7	39.6	41.6	40.6	49.5	63.4	72.3
75°	182.3	92.1	27.7	26.7	29.7	34.7	36.6	36.6	49.5	64.4	69.3
77.5°	82.2	49.5	17.8	20.8	25.8	27.7	30.7	30.7	39.6	49.5	49.5
80°	46.6	26.7	13.9	15.8	18.8	18.8	18.8	16.8	17.8	19.8	21.8
82.5°	29.7	17.8	10.9	12.9	11.9	9.9	7.9	7.9	6.9	7.9	9.9
85°	16.8	9.9	9.9	7.9	5.0	4.0	5.0	4.0	1.0	0.0	1.0
87.5°	9.9	5.9	3.0	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)