

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: P268407

Luminaire Tested: **GAN-AF-04-LED-U-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17386 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

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

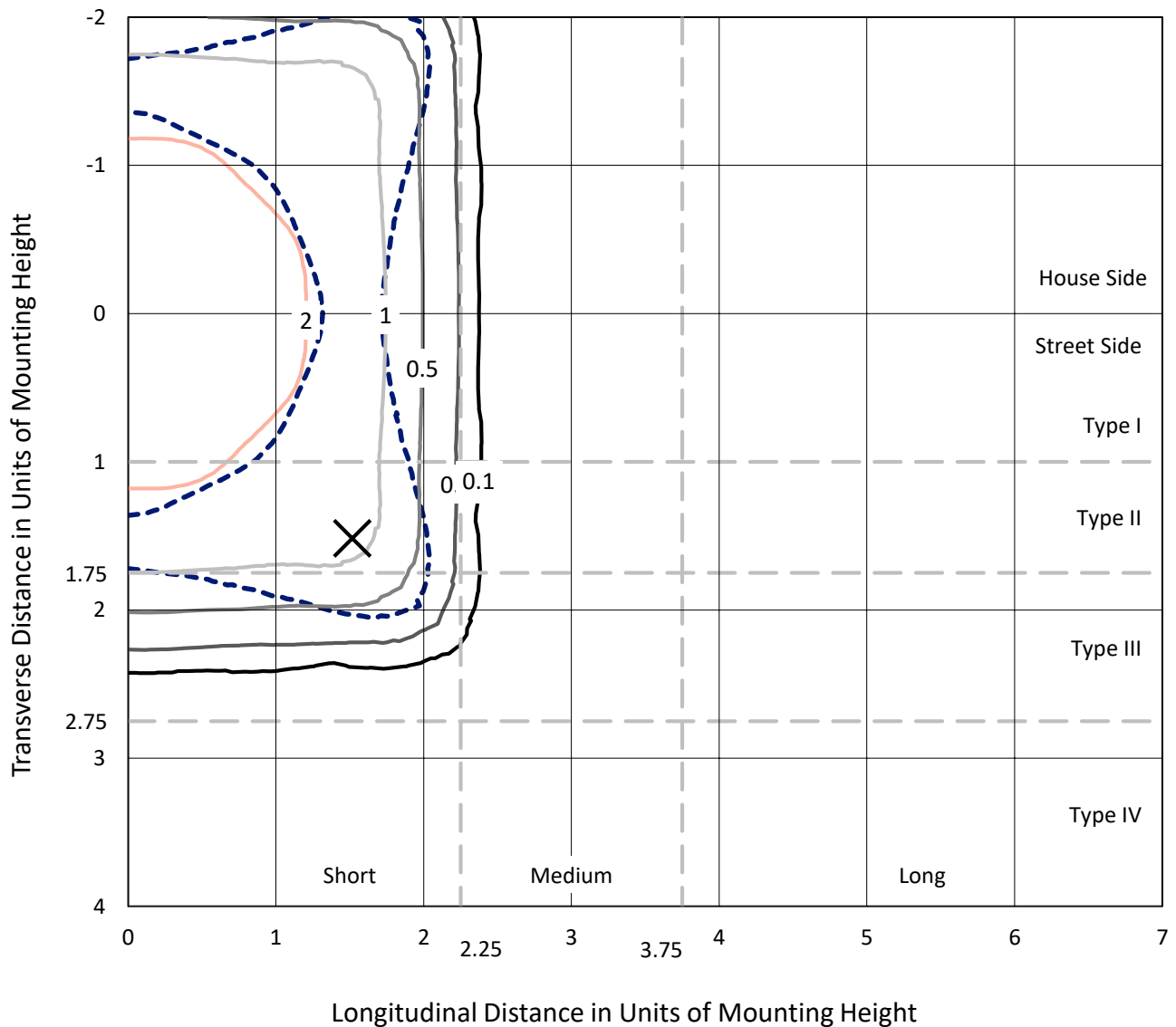


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

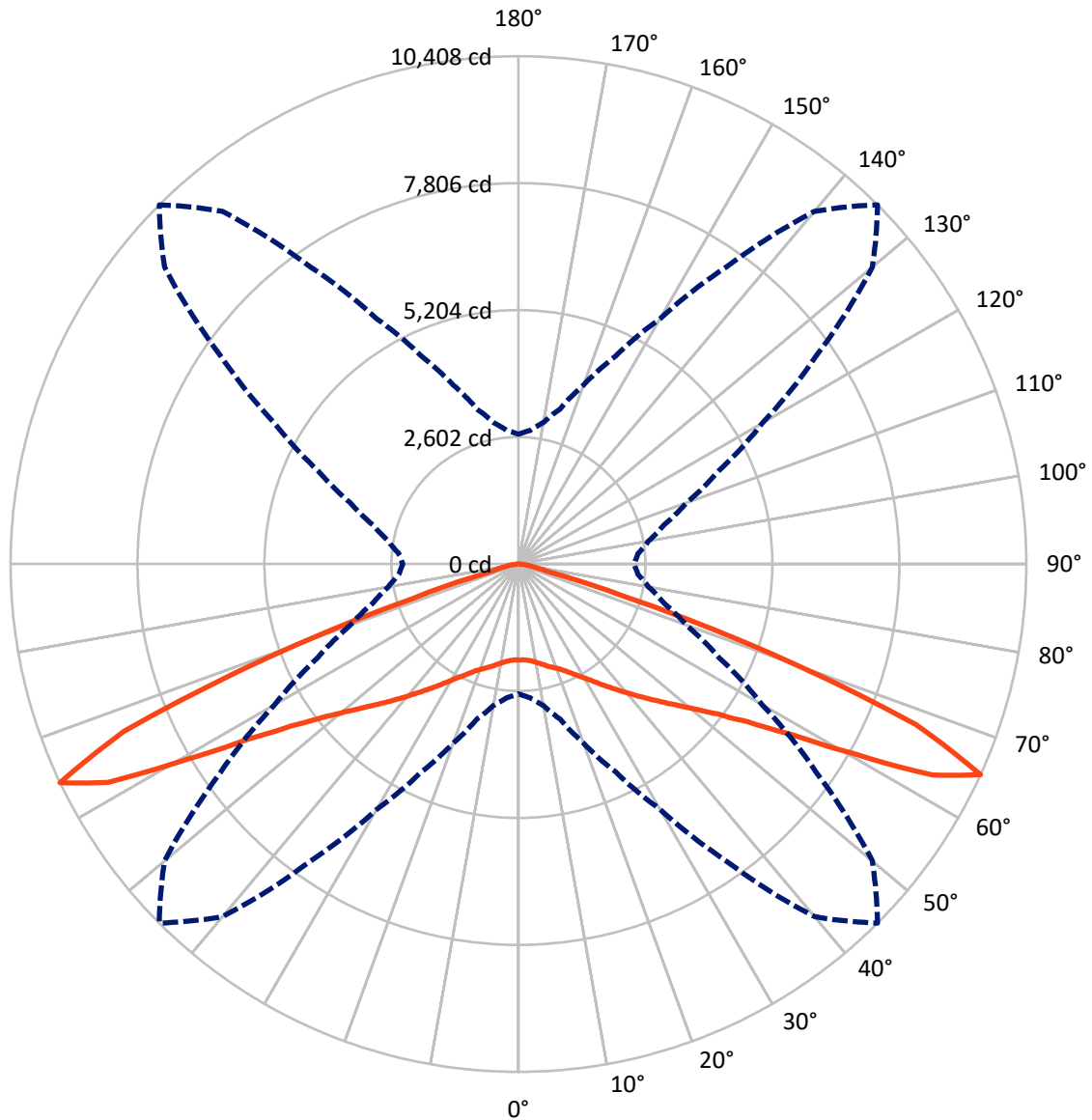


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8693.0	0.0	8693.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8693.0	0.0	8693.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17386.0	0.0	17386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.1
10°-20°	615.0	3.5
20°-30°	1149.8	6.6
30°-40°	1944.7	11.2
40°-50°	3179.8	18.3
50°-60°	5056.4	29.1
60°-70°	4570.6	26.3
70°-80°	578.4	3.3
80°-90°	99.5	0.6
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°	17386.0	100.0
0°-180°	17386.0	100.0

Coefficient of Utilization



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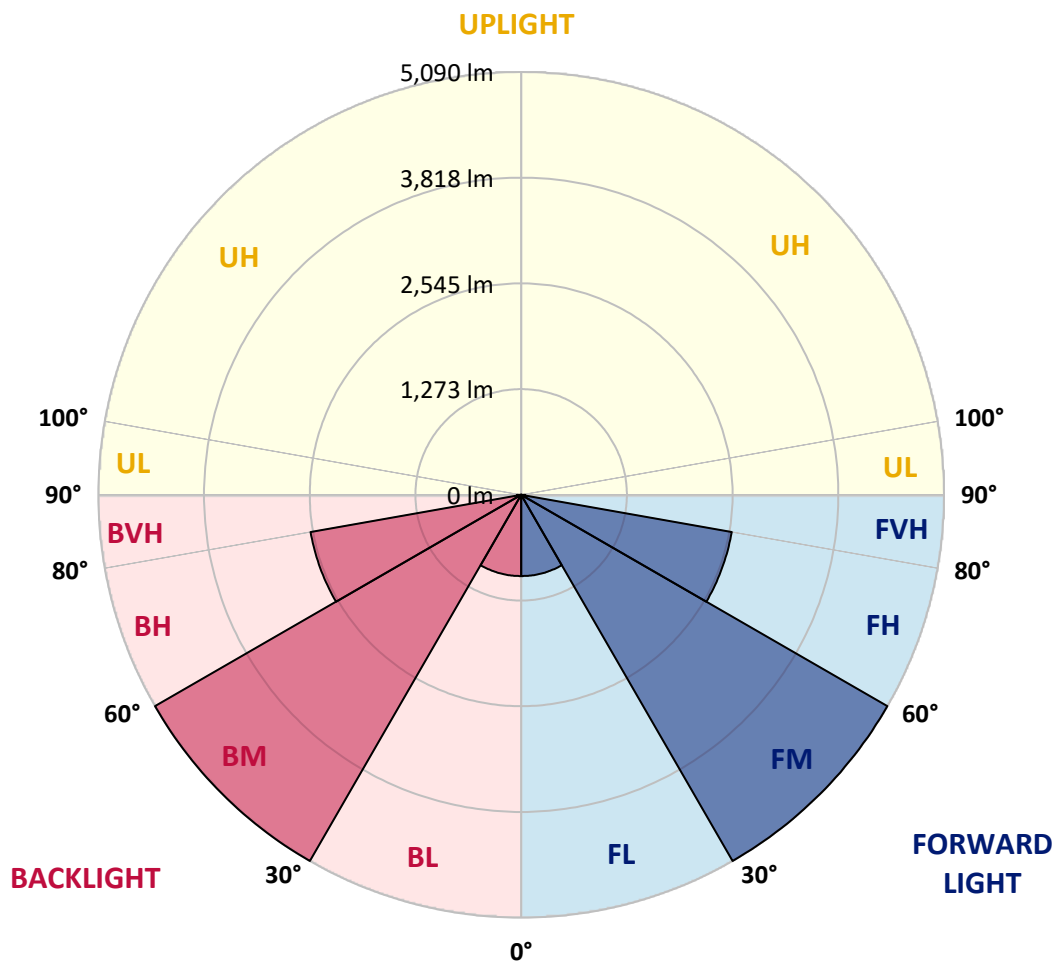
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.3	5.6			
FM	(30°-60°)	5090.4	29.3			
FH	(60°-80°)	2574.5	14.8			G2/5000
FVH	(80°-90°)	49.7	0.3			G1/100
BL	(0°-30°)	978.3	5.6	B2/1000		
BM	(30°-60°)	5090.4	29.3	B4/8500		
BH	(60°-80°)	2574.5	14.8	B4/5000		G2/5000
BVH	(80°-90°)	49.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1968.8	1970.5	1972.0	1970.5	1972.0	1969.7	1968.0	1970.5	1968.0	1965.6	1967.2
5°	1986.0	1986.8	1986.8	1984.4	1986.8	1985.2	1982.6	1986.0	1983.5	1981.1	1982.6
7.5°	2014.4	2017.8	2015.3	2012.8	2014.4	2012.8	2011.1	2012.1	2011.1	2008.8	2009.6
10°	2052.7	2055.1	2053.5	2052.7	2054.3	2053.5	2051.9	2051.1	2051.9	2049.5	2049.5
12.5°	2099.1	2098.4	2097.5	2098.4	2100.7	2100.7	2100.0	2100.7	2102.5	2103.2	2101.6
15°	2144.8	2146.4	2146.4	2146.4	2151.3	2155.4	2157.8	2159.3	2162.7	2163.5	2160.2
17.5°	2201.7	2201.7	2200.8	2201.7	2206.6	2213.2	2215.6	2218.9	2222.0	2224.6	2220.5
20°	2265.3	2266.9	2266.9	2268.5	2275.0	2282.4	2282.4	2284.0	2282.4	2284.0	2281.5
22.5°	2342.6	2347.5	2347.5	2348.3	2354.7	2363.8	2361.4	2363.8	2359.7	2362.9	2359.7
25°	2443.6	2450.8	2449.3	2449.3	2454.2	2459.9	2460.6	2465.6	2464.7	2468.8	2466.3
27.5°	2557.6	2569.0	2572.2	2571.4	2574.6	2580.3	2582.0	2587.7	2584.5	2587.7	2586.1
30°	2694.3	2699.2	2705.8	2708.2	2712.3	2718.0	2718.0	2718.8	2714.7	2719.6	2722.0
32.5°	2835.9	2845.0	2851.5	2866.1	2873.5	2877.6	2876.7	2878.3	2874.2	2880.9	2885.7
35°	3023.3	3029.9	3040.5	3051.8	3061.7	3060.7	3058.3	3059.2	3059.2	3064.8	3069.7
37.5°	3248.9	3250.4	3264.4	3280.6	3285.6	3280.6	3266.0	3262.7	3255.4	3262.7	3270.9
40°	3487.4	3493.1	3520.8	3531.3	3533.8	3524.9	3503.7	3491.5	3475.3	3484.2	3495.6
42.5°	3737.4	3748.7	3774.0	3792.7	3800.9	3795.2	3766.0	3747.2	3726.0	3730.9	3742.2
45°	4014.3	4028.1	4063.9	4081.9	4097.3	4088.4	4059.9	4031.4	3997.9	4000.4	4018.3
47.5°	4323.7	4337.6	4383.9	4414.0	4422.1	4420.6	4388.8	4349.8	4304.0	4302.5	4318.0
50°	4670.6	4684.4	4742.2	4788.7	4812.2	4809.7	4772.3	4717.0	4661.6	4662.5	4682.0
52.5°	5009.3	5026.3	5086.7	5166.4	5212.9	5246.2	5223.5	5171.4	5103.7	5105.3	5123.3
55°	5326.8	5355.3	5424.5	5532.8	5619.2	5712.9	5739.7	5738.1	5697.3	5708.6	5726.6
57.5°	5480.6	5523.0	5629.8	5800.7	5976.7	6167.1	6328.4	6448.8	6500.1	6577.5	6559.7
60°	5189.1	5256.8	5413.9	5665.6	6013.3	6410.7	6836.5	7252.6	7607.6	7875.4	7721.6
62.5°	4248.8	4336.7	4527.3	4849.7	5375.6	6011.5	6826.7	7810.4	8881.8	9528.3	9066.8
65°	2658.5	2749.7	2943.6	3288.8	3904.4	4695.0	5800.7	7430.9	9433.1	10407.8	9468.1
67.5°	1036.6	1086.2	1191.2	1412.0	1874.5	2578.0	3687.7	5537.7	7932.5	8786.6	7785.0
70°	519.5	524.4	544.0	584.6	684.0	888.3	1351.7	2567.4	4549.2	5494.6	4385.5
72.5°	375.4	376.2	385.9	403.9	435.6	481.2	569.2	785.7	1479.5	2261.2	1386.7
75°	287.5	290.7	296.4	306.1	323.3	346.0	377.7	452.7	561.0	650.6	547.2
77.5°	221.5	228.0	232.0	241.0	251.6	267.1	276.0	304.5	354.2	372.9	367.2
80°	168.5	174.2	183.3	190.5	197.8	205.3	201.8	215.0	241.0	256.5	248.3
82.5°	107.4	113.9	140.0	146.6	149.7	154.7	148.9	149.7	161.2	170.9	161.2
85°	69.2	73.3	88.8	96.8	97.7	101.0	98.5	92.9	92.9	84.7	95.3
87.5°	31.8	32.6	40.0	47.3	48.9	43.9	43.2	41.5	33.3	31.8	34.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1966.4	1968.0	1968.8	1971.3	1972.0	1972.0	1972.9	1974.6
5°	1981.9	1984.4	1985.2	1988.4	1989.1	1988.4	1990.0	1990.9
7.5°	2009.6	2013.6	2015.3	2018.5	2016.1	2019.3	2020.2	2020.2
10°	2050.3	2054.3	2055.1	2058.5	2056.8	2058.5	2058.5	2056.8
12.5°	2104.0	2104.9	2102.5	2104.9	2101.6	2103.2	2100.7	2099.1
15°	2163.5	2161.1	2155.4	2155.4	2150.5	2151.3	2150.5	2149.6
17.5°	2221.2	2216.4	2212.3	2210.6	2206.6	2205.8	2203.4	2203.4
20°	2284.7	2282.4	2279.9	2276.7	2272.6	2268.5	2267.7	2269.3
22.5°	2361.4	2360.6	2360.6	2358.9	2353.2	2349.1	2346.6	2346.6
25°	2464.0	2456.5	2456.5	2455.7	2453.4	2450.8	2446.1	2448.5
27.5°	2579.6	2575.5	2578.8	2578.0	2575.5	2575.5	2572.2	2572.2
30°	2722.0	2720.3	2725.3	2721.2	2713.2	2712.3	2709.0	2704.9
32.5°	2886.6	2884.8	2892.3	2887.3	2874.2	2867.0	2860.5	2857.1
35°	3069.7	3070.5	3079.5	3076.2	3061.7	3056.8	3045.3	3043.6
37.5°	3270.0	3283.0	3298.5	3301.8	3289.6	3286.3	3274.1	3267.6
40°	3505.4	3522.4	3546.1	3551.8	3538.8	3536.3	3519.2	3510.2
42.5°	3756.2	3785.5	3814.7	3819.7	3806.6	3793.6	3777.4	3770.7
45°	4036.3	4071.3	4109.6	4119.3	4099.8	4084.2	4063.2	4063.2
47.5°	4350.5	4394.5	4437.6	4464.5	4446.6	4430.4	4405.1	4388.8
50°	4721.9	4782.0	4838.4	4865.9	4837.5	4806.6	4762.5	4747.9
52.5°	5187.6	5252.7	5301.5	5287.0	5243.0	5199.7	5151.8	5132.2
55°	5782.0	5803.9	5803.9	5748.7	5660.7	5588.1	5512.4	5487.2
57.5°	6525.4	6440.8	6310.5	6145.1	5937.4	5756.8	5634.6	5576.8
60°	7399.1	6992.0	6531.9	6080.0	5708.6	5402.5	5220.9	5137.9
62.5°	7981.4	6916.2	5994.5	5269.0	4734.8	4366.0	4115.2	4017.5
65°	7459.3	5768.1	4533.7	3665.8	3083.6	2708.2	2459.9	2368.7
67.5°	5463.6	3614.5	2414.3	1730.2	1267.8	1011.3	909.5	867.1
70°	2452.6	1272.7	780.1	609.1	525.1	482.0	463.3	456.8
72.5°	739.3	535.0	451.0	407.1	373.8	352.6	337.1	335.4
75°	446.2	371.3	329.8	303.6	282.5	265.4	257.4	254.8
77.5°	311.8	272.7	253.2	234.5	218.2	205.3	197.8	192.1
80°	219.0	200.3	191.3	180.7	170.1	157.9	147.4	142.6
82.5°	146.6	142.6	142.6	136.0	127.0	115.6	94.4	89.7
85°	94.4	93.7	95.3	92.9	86.2	74.1	61.1	57.9
87.5°	43.9	44.7	49.6	48.9	47.3	39.0	30.9	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)