

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: P196902

Luminaire Tested: **NVN-AF-06-LED-U-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-06-LED-U-5NQ-8030-600
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19909 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 193
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

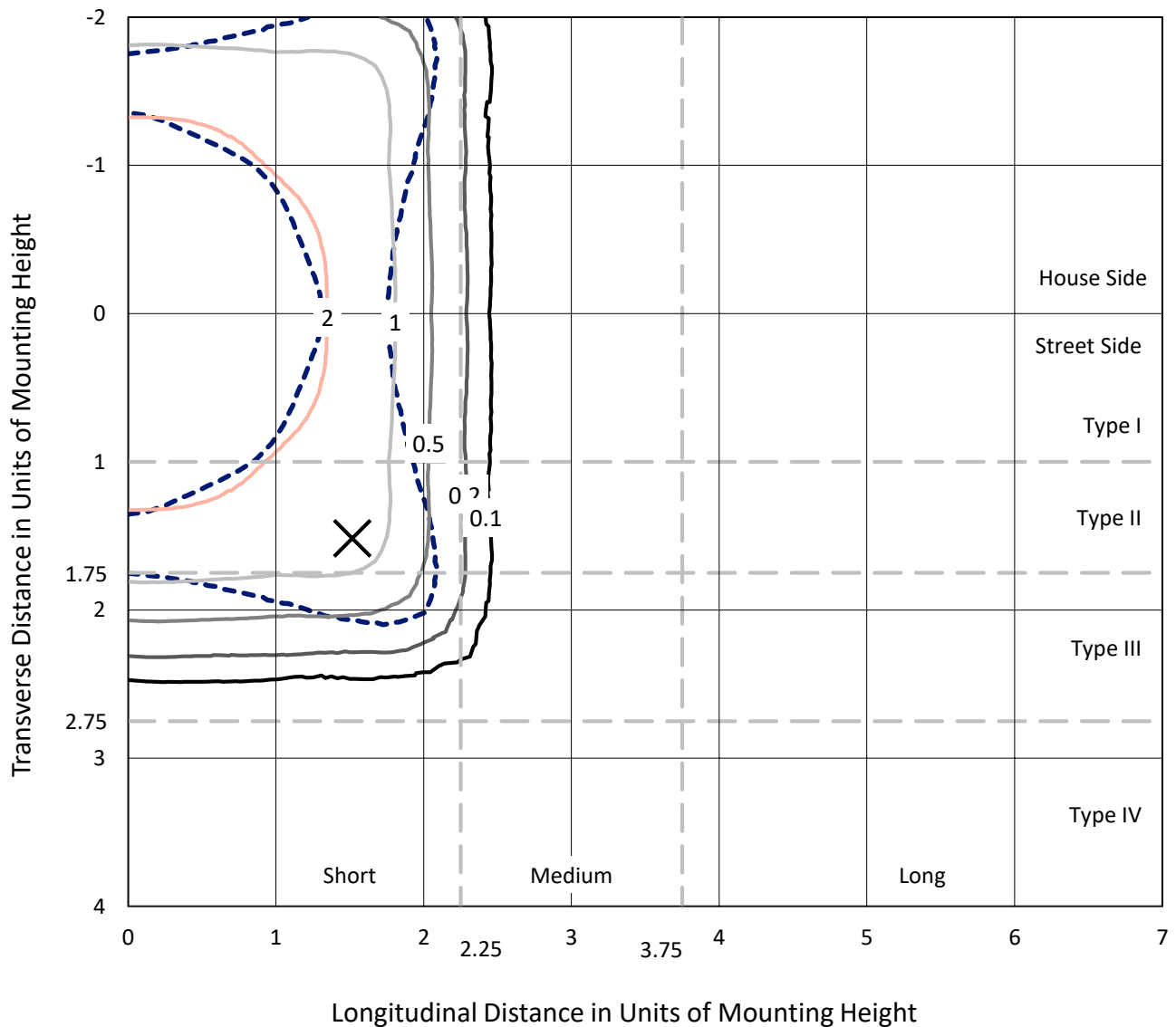


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

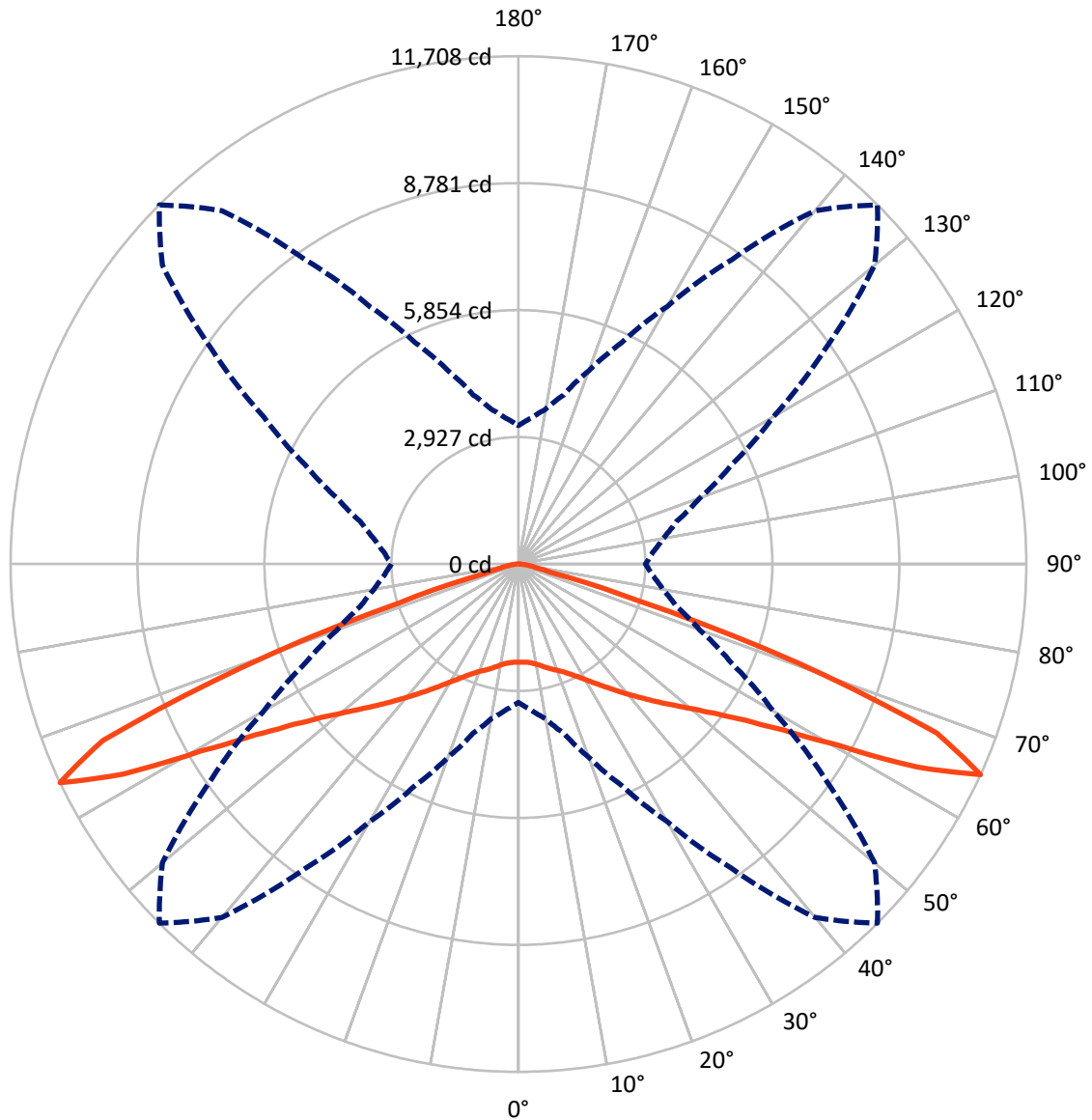


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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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	9954.5	0.0	9954.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9954.5	0.0	9954.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19909.0	0.0	19909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.1
10°-20°	706.8	3.6
20°-30°	1318.5	6.6
30°-40°	2223.3	11.2
40°-50°	3611.2	18.1
50°-60°	5658.2	28.4
60°-70°	5341.0	26.8
70°-80°	719.8	3.6
80°-90°	109.6	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°	19909.0	100.0
0°-180°	19909.0	100.0

Coefficient of Utilization



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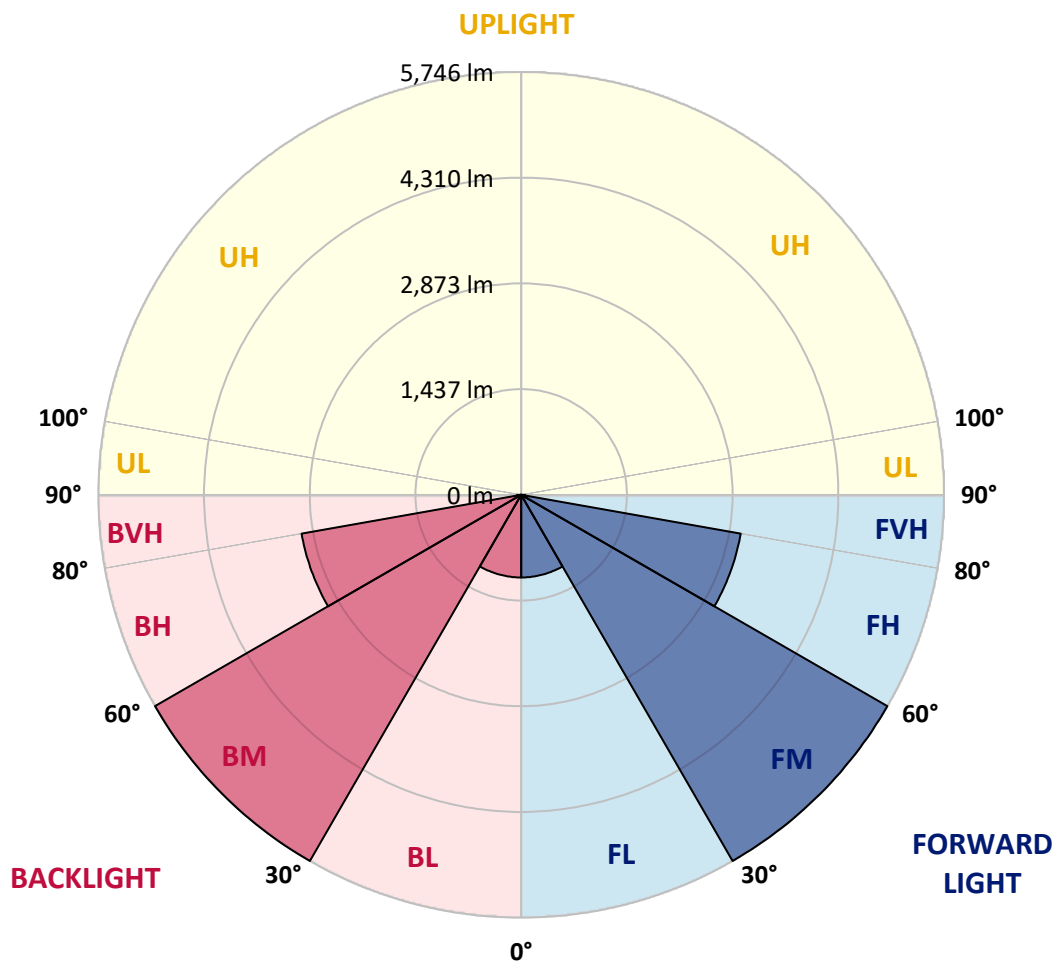
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.9	5.6			
FM	(30°-60°)	5746.3	28.9			
FH	(60°-80°)	3030.4	15.2			G2/5000
FVH	(80°-90°)	54.8	0.3			G1/100
BL	(0°-30°)	1122.9	5.6	B3/2500		
BM	(30°-60°)	5746.3	28.9	B4/8500		
BH	(60°-80°)	3030.4	15.2	B4/5000		G2/5000
BVH	(80°-90°)	54.8	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°	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6
2.5°	2283.2	2283.2	2286.9	2285.7	2280.7	2277.0	2273.3	2268.3	2265.9	2263.4	2262.1
5°	2295.6	2295.6	2299.4	2298.1	2294.4	2289.4	2286.9	2283.2	2279.5	2277.0	2278.3
7.5°	2326.6	2327.9	2329.1	2327.9	2324.2	2320.4	2315.5	2314.2	2309.3	2305.6	2308.0
10°	2373.8	2373.8	2375.0	2376.2	2373.8	2365.1	2365.1	2362.6	2357.6	2352.7	2353.9
12.5°	2425.9	2425.9	2427.1	2427.1	2427.1	2422.1	2423.4	2422.1	2415.9	2413.5	2415.9
15°	2476.7	2477.9	2477.9	2480.4	2480.4	2481.7	2486.6	2486.6	2484.1	2482.9	2482.9
17.5°	2536.2	2538.7	2540.0	2543.7	2544.9	2547.4	2552.4	2553.6	2554.8	2551.1	2552.4
20°	2615.6	2616.8	2620.6	2621.8	2626.8	2626.8	2629.2	2628.0	2625.5	2620.6	2620.6
22.5°	2704.9	2707.4	2714.8	2714.8	2721.0	2717.3	2718.5	2714.8	2708.6	2706.1	2703.7
25°	2821.5	2825.2	2831.4	2828.9	2831.4	2825.2	2825.2	2825.2	2821.5	2817.8	2816.5
27.5°	2969.1	2962.9	2969.1	2964.1	2962.9	2957.9	2959.1	2956.7	2952.9	2951.7	2946.7
30°	3122.9	3115.4	3119.1	3120.4	3117.9	3116.6	3111.7	3108.0	3101.8	3103.0	3099.3
32.5°	3299.0	3291.5	3295.2	3296.5	3294.0	3296.5	3295.2	3286.6	3279.1	3284.1	3284.1
35°	3508.6	3503.6	3513.5	3517.2	3509.8	3506.1	3501.1	3491.2	3480.0	3487.5	3488.7
37.5°	3760.3	3754.1	3761.6	3771.5	3757.8	3750.4	3730.6	3715.7	3708.2	3712.0	3716.9
40°	4022.0	4023.2	4044.3	4046.8	4031.9	4023.2	4003.4	3981.1	3960.0	3960.0	3966.2
42.5°	4297.3	4301.1	4325.9	4334.5	4329.6	4313.5	4286.2	4258.9	4231.6	4236.6	4244.0
45°	4608.6	4603.7	4629.7	4650.8	4647.1	4642.1	4616.1	4566.5	4541.7	4540.4	4552.8
47.5°	4936.0	4946.0	4973.2	5009.2	5008.0	4995.6	4962.1	4916.2	4870.3	4874.0	4888.9
50°	5318.0	5331.7	5377.6	5413.5	5418.5	5414.8	5375.1	5321.7	5257.3	5261.0	5280.8
52.5°	5660.3	5680.2	5733.5	5807.9	5853.8	5874.9	5848.8	5799.2	5733.5	5737.2	5758.3
55°	5970.4	6001.4	6080.8	6182.5	6274.2	6359.8	6398.2	6397.0	6348.6	6359.8	6387.1
57.5°	6165.1	6208.5	6328.8	6492.5	6674.8	6847.2	6996.0	7136.2	7167.2	7225.5	7225.5
60°	5903.4	6005.1	6165.1	6445.4	6803.8	7190.7	7609.9	8018.0	8280.9	8488.0	8376.4
62.5°	4929.8	5079.9	5304.4	5674.0	6232.1	6922.9	7765.0	8713.7	9703.4	10308.6	9864.6
65°	3189.8	3378.3	3622.7	4038.1	4741.3	5630.6	6857.1	8562.4	10633.6	11707.6	10715.4
67.5°	1263.8	1391.5	1540.3	1835.5	2445.7	3318.8	4695.4	6798.8	9389.6	10402.9	9290.4
70°	604.0	625.1	653.6	716.8	869.4	1173.2	1886.4	3349.8	5758.3	6826.1	5620.6
72.5°	436.6	440.3	453.9	475.0	519.6	581.7	706.9	1024.4	1985.6	2887.2	1988.1
75°	331.1	336.1	343.5	354.7	378.3	408.0	455.2	545.7	679.6	783.8	678.4
77.5°	251.8	256.7	262.9	274.1	286.5	307.6	324.9	360.9	418.0	440.3	437.8
80°	183.6	192.2	202.2	212.1	220.8	230.7	231.9	249.3	281.5	302.6	296.4
82.5°	116.6	124.0	150.1	161.2	162.5	164.9	163.7	164.9	182.3	197.2	192.2
85°	74.4	79.4	93.0	105.4	102.9	107.9	107.9	105.4	98.0	84.3	100.5
87.5°	37.2	38.4	44.6	55.8	53.3	47.1	45.9	45.9	33.5	28.5	31.0
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°	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6	2264.6
2.5°	2258.4	2260.9	2257.2	2257.2	2255.9	2258.4	2254.7	2254.7
5°	2275.8	2279.5	2278.3	2278.3	2280.7	2283.2	2282.0	2280.7
7.5°	2306.8	2309.3	2311.8	2313.0	2315.5	2314.2	2316.7	2315.5
10°	2353.9	2351.4	2355.2	2351.4	2352.7	2350.2	2351.4	2351.4
12.5°	2413.5	2409.7	2407.2	2404.8	2404.8	2399.8	2399.8	2401.0
15°	2481.7	2475.5	2470.5	2468.0	2465.5	2465.5	2461.8	2464.3
17.5°	2548.6	2542.4	2533.8	2533.8	2530.0	2527.5	2525.1	2531.3
20°	2619.3	2613.1	2608.2	2606.9	2599.5	2597.0	2598.2	2605.7
22.5°	2701.2	2697.5	2697.5	2695.0	2690.0	2686.3	2686.3	2695.0
25°	2811.6	2804.1	2805.4	2806.6	2804.1	2804.1	2801.6	2807.8
27.5°	2946.7	2940.5	2944.3	2946.7	2944.3	2948.0	2944.3	2949.2
30°	3105.5	3101.8	3105.5	3109.2	3103.0	3103.0	3100.5	3104.2
32.5°	3295.2	3290.3	3292.8	3292.8	3284.1	3276.6	3266.7	3274.2
35°	3503.6	3497.4	3502.4	3506.1	3496.2	3488.7	3473.8	3480.0
37.5°	3733.0	3735.5	3741.7	3757.8	3755.4	3743.0	3731.8	3736.8
40°	3989.8	4002.2	4029.4	4040.6	4038.1	4025.7	4010.8	4013.3
42.5°	4280.0	4296.1	4324.6	4343.2	4334.5	4317.2	4298.6	4306.0
45°	4596.2	4621.0	4658.2	4676.8	4665.7	4647.1	4621.0	4634.7
47.5°	4931.1	4980.7	5030.3	5055.1	5051.4	5025.3	4991.8	4995.6
50°	5331.7	5397.4	5460.6	5485.5	5466.8	5427.2	5380.0	5378.8
52.5°	5830.2	5900.9	5953.0	5946.8	5900.9	5838.9	5785.6	5783.1
55°	6452.8	6476.4	6468.9	6415.6	6335.0	6238.3	6170.0	6158.9
57.5°	7205.6	7126.3	7009.7	6848.4	6667.4	6483.8	6359.8	6313.9
60°	8125.9	7767.4	7350.7	6911.7	6511.1	6211.0	6021.2	5905.9
62.5°	8886.1	7848.1	6916.7	6153.9	5530.1	5159.3	4900.1	4740.1
65°	8625.7	6780.2	5430.9	4447.4	3766.5	3383.3	3109.2	2926.9
67.5°	6663.7	4530.5	3152.6	2185.3	1656.9	1402.7	1225.3	1110.0
70°	3359.7	1737.5	1052.9	742.9	635.0	590.3	560.6	543.2
72.5°	986.0	658.6	546.9	483.7	445.2	418.0	400.6	391.9
75°	545.7	445.2	393.1	357.2	332.4	313.8	302.6	295.2
77.5°	375.8	323.7	297.7	274.1	254.2	240.6	231.9	224.5
80°	262.9	236.9	225.7	213.3	198.4	187.3	174.9	169.9
82.5°	174.9	163.7	161.2	151.3	142.6	130.2	107.9	100.5
85°	102.9	101.7	101.7	98.0	91.8	80.6	64.5	64.5
87.5°	36.0	37.2	38.4	40.9	39.7	33.5	27.3	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)