

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: McGRAW-EDISON

Report Number: P299485

Luminaire Tested: **GLNA-AF-06-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299485
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-5NQ-7027-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20947 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

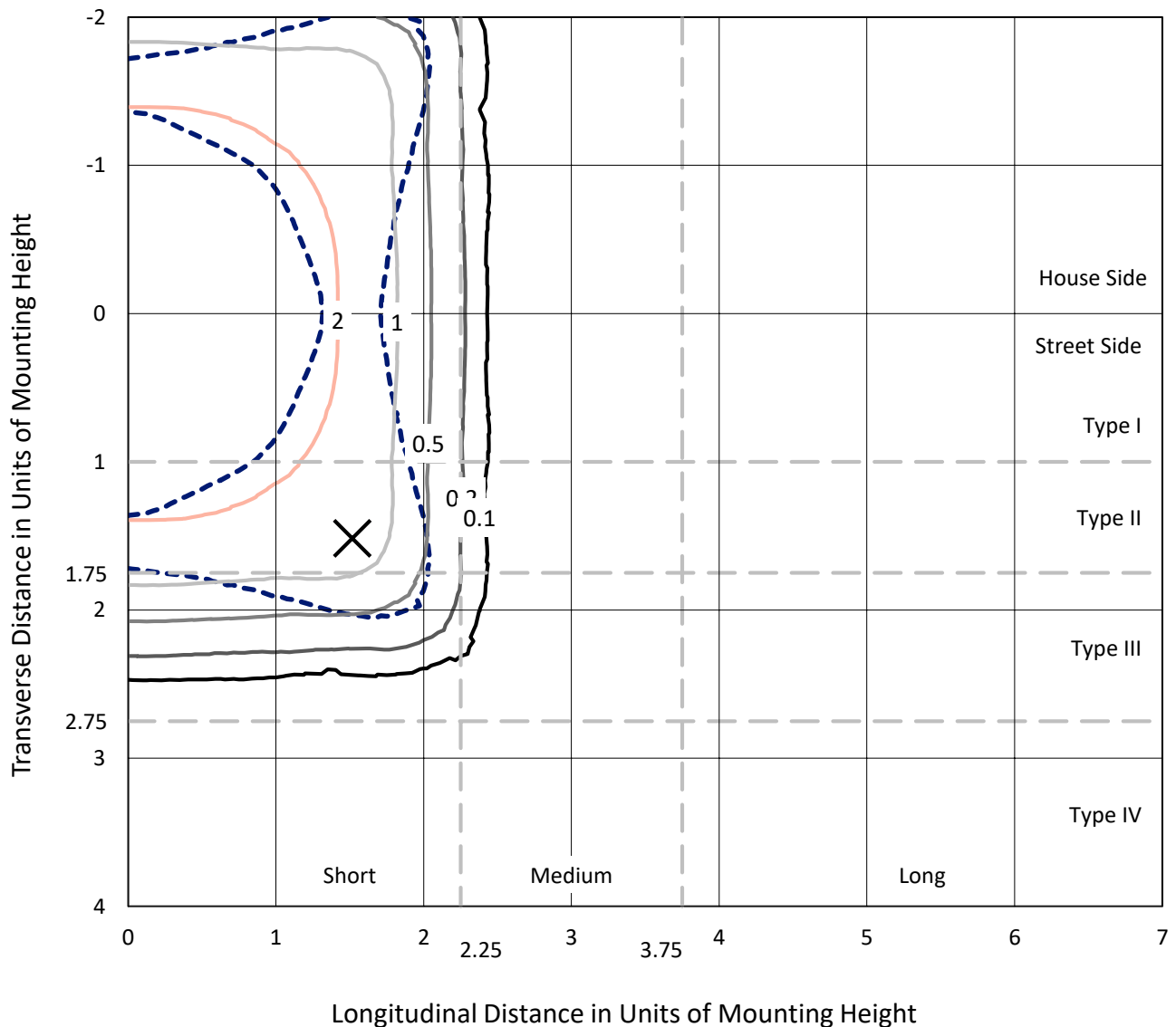
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

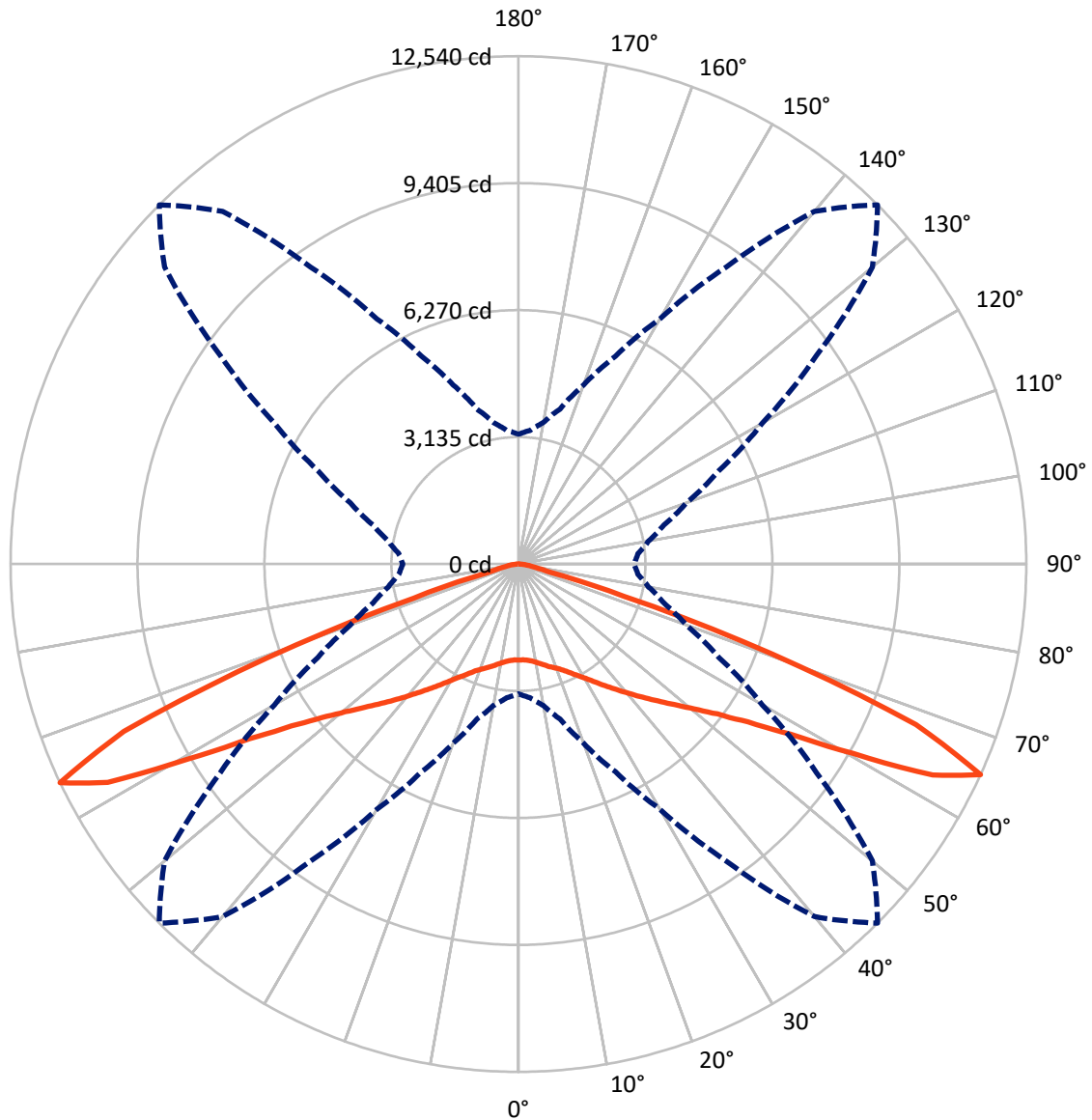


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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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	10473.5	0.0	10473.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10473.5	0.0	10473.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20947.0	0.0	20947.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.1
10°-20°	740.9	3.5
20°-30°	1385.4	6.6
30°-40°	2343.0	11.2
40°-50°	3831.1	18.3
50°-60°	6092.0	29.1
60°-70°	5506.8	26.3
70°-80°	696.9	3.3
80°-90°	119.9	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°	20947.0	100.0
0°-180°	20947.0	100.0



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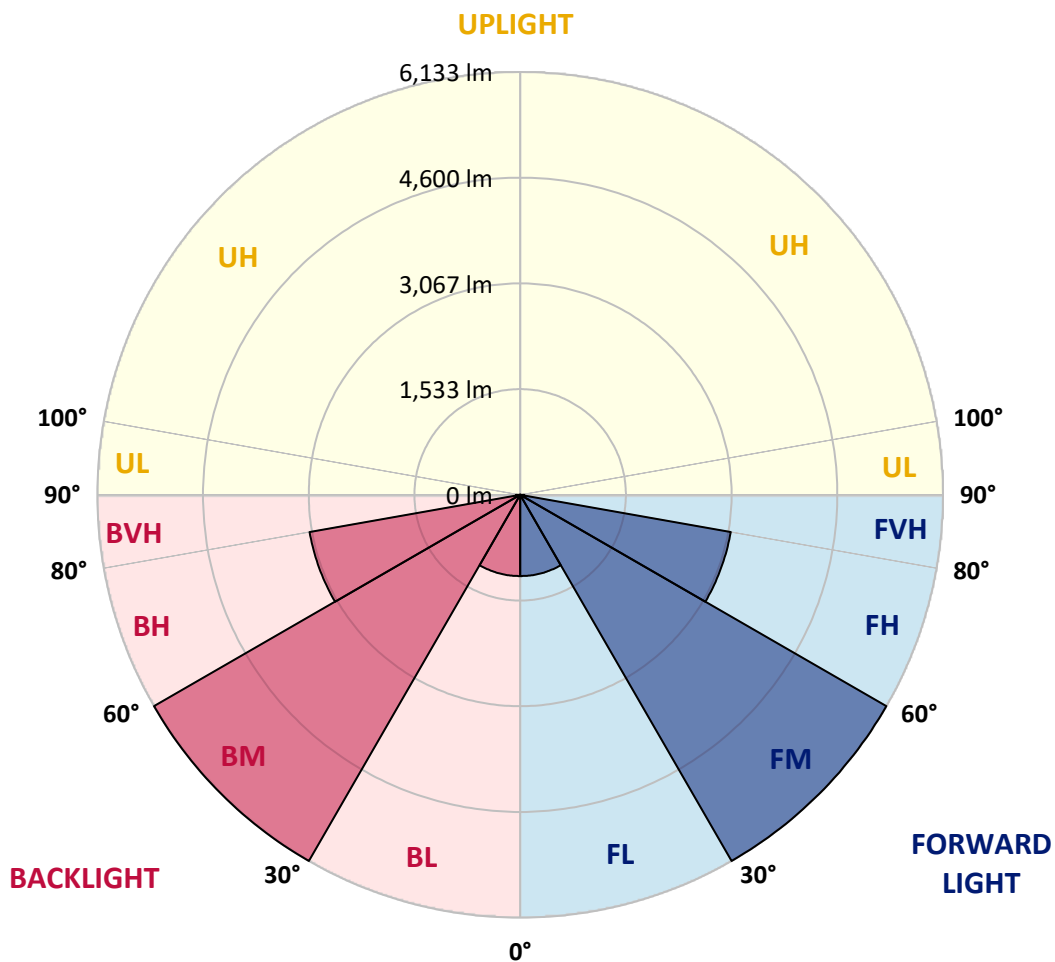
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1178.6	5.6			
FM	(30°-60°)	6133.1	29.3			
FH	(60°-80°)	3101.8	14.8			G2/5000
FVH	(80°-90°)	59.9	0.3			G1/100
BL	(0°-30°)	1178.6	5.6	B3/2500		
BM	(30°-60°)	6133.1	29.3	B4/8500		
BH	(60°-80°)	3101.8	14.8	B4/5000		G2/5000
BVH	(80°-90°)	59.9	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°	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2
2.5°	2372.1	2374.1	2376.0	2374.1	2376.0	2373.1	2371.1	2374.1	2371.1	2368.2	2370.2
5°	2392.7	2393.7	2393.7	2390.8	2393.7	2391.7	2388.8	2392.7	2389.8	2386.8	2388.8
7.5°	2427.1	2431.0	2428.0	2425.1	2427.1	2425.1	2423.1	2424.1	2423.1	2420.2	2421.2
10°	2473.2	2476.1	2474.1	2473.2	2475.1	2474.1	2472.2	2471.2	2472.2	2469.2	2469.2
12.5°	2529.1	2528.1	2527.1	2528.1	2531.0	2531.0	2530.1	2531.0	2533.0	2534.0	2532.0
15°	2584.0	2586.0	2586.0	2586.0	2591.9	2596.8	2599.7	2601.7	2605.6	2606.6	2602.7
17.5°	2652.7	2652.7	2651.7	2652.7	2658.6	2666.4	2669.4	2673.3	2677.2	2680.2	2675.3
20°	2729.2	2731.2	2731.2	2733.1	2741.0	2749.8	2749.8	2751.8	2749.8	2751.8	2748.8
22.5°	2822.4	2828.3	2828.3	2829.3	2837.1	2847.9	2845.0	2847.9	2843.0	2846.9	2843.0
25°	2944.1	2952.9	2950.9	2950.9	2956.8	2963.7	2964.7	2970.5	2969.6	2974.5	2971.5
27.5°	3081.4	3095.1	3099.1	3098.1	3102.0	3108.9	3110.8	3117.7	3113.8	3117.7	3115.7
30°	3246.2	3252.1	3260.0	3262.9	3267.8	3274.7	3274.7	3275.6	3270.7	3276.6	3279.6
32.5°	3416.9	3427.7	3435.6	3453.2	3462.0	3466.9	3466.0	3467.9	3463.0	3470.9	3476.8
35°	3642.6	3650.4	3663.2	3676.9	3688.7	3687.7	3684.7	3685.7	3685.7	3692.6	3698.5
37.5°	3914.3	3916.3	3932.9	3952.6	3958.4	3952.6	3934.9	3931.0	3922.1	3931.0	3940.8
40°	4201.7	4208.6	4242.0	4254.7	4257.7	4246.9	4221.4	4206.6	4187.0	4197.8	4211.5
42.5°	4502.9	4516.6	4547.1	4569.6	4579.4	4572.6	4537.2	4514.7	4489.2	4495.1	4508.8
45°	4836.5	4853.1	4896.3	4917.9	4936.5	4925.7	4891.4	4857.1	4816.8	4819.8	4841.4
47.5°	5209.3	5225.9	5281.8	5318.1	5328.0	5326.0	5287.7	5240.6	5185.7	5183.7	5202.4
50°	5627.2	5643.8	5713.5	5769.4	5797.9	5794.9	5749.8	5683.1	5616.4	5617.4	5640.9
52.5°	6035.3	6055.9	6128.5	6224.6	6280.5	6320.8	6293.3	6230.5	6149.1	6151.0	6172.6
55°	6417.9	6452.2	6535.6	6666.1	6770.1	6882.9	6915.3	6913.3	6864.2	6878.0	6899.6
57.5°	6603.3	6654.3	6782.8	6988.8	7200.7	7430.3	7624.5	7769.7	7831.5	7924.7	7903.1
60°	6252.1	6333.5	6522.8	6826.0	7244.9	7723.6	8236.7	8738.0	9165.7	9488.5	9303.1
62.5°	5119.0	5224.9	5454.5	5843.0	6476.7	7242.9	8224.9	9410.0	10701.0	11480.0	10923.7
65°	3203.1	3312.9	3546.4	3962.4	4704.0	5656.6	6988.8	8952.8	11365.2	12539.5	11407.4
67.5°	1248.8	1308.7	1435.2	1701.1	2258.3	3105.9	4443.1	6672.0	9557.2	10586.3	9379.6
70°	625.9	631.8	655.3	704.4	824.1	1070.3	1628.5	3093.2	5481.0	6620.0	5283.8
72.5°	452.3	453.2	465.0	486.6	524.8	579.8	685.7	946.7	1782.5	2724.3	1670.7
75°	346.3	350.2	357.1	368.9	389.5	416.9	455.2	545.5	675.9	783.8	659.2
77.5°	266.8	274.7	279.6	290.4	303.1	321.8	332.6	366.9	426.7	449.3	442.4
80°	203.1	209.9	220.7	229.6	238.4	247.2	243.3	259.0	290.4	309.0	299.2
82.5°	129.5	137.3	168.7	176.6	180.5	186.4	179.5	180.5	194.2	206.0	194.2
85°	83.4	88.3	106.9	116.7	117.7	121.6	118.7	111.8	111.8	102.0	114.8
87.5°	38.3	39.2	48.1	56.9	58.9	53.0	52.0	50.0	40.2	38.3	41.2
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°	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2
2.5°	2369.2	2371.1	2372.1	2375.1	2376.0	2376.0	2377.0	2379.0
5°	2387.8	2390.8	2391.7	2395.7	2396.6	2395.7	2397.6	2398.6
7.5°	2421.2	2426.1	2428.0	2432.0	2429.0	2432.9	2433.9	2433.9
10°	2470.2	2475.1	2476.1	2480.0	2478.1	2480.0	2480.0	2478.1
12.5°	2535.0	2536.0	2533.0	2536.0	2532.0	2534.0	2531.0	2529.1
15°	2606.6	2603.6	2596.8	2596.8	2590.9	2591.9	2590.9	2589.9
17.5°	2676.2	2670.4	2665.4	2663.5	2658.6	2657.6	2654.7	2654.7
20°	2752.8	2749.8	2746.9	2743.0	2738.0	2733.1	2732.2	2734.1
22.5°	2845.0	2844.0	2844.0	2842.0	2835.2	2830.3	2827.3	2827.3
25°	2968.6	2959.8	2959.8	2958.8	2955.8	2952.9	2947.0	2949.9
27.5°	3107.9	3103.0	3106.9	3105.9	3103.0	3103.0	3099.1	3099.1
30°	3279.6	3277.6	3283.5	3278.6	3268.8	3267.8	3263.9	3259.0
32.5°	3477.7	3475.8	3484.6	3478.7	3463.0	3454.2	3446.3	3442.4
35°	3698.5	3699.5	3710.2	3706.3	3688.7	3682.8	3669.0	3667.1
37.5°	3939.8	3955.5	3974.1	3978.1	3963.3	3959.4	3944.7	3936.9
40°	4223.3	4243.9	4272.4	4279.2	4263.5	4260.6	4240.0	4229.2
42.5°	4525.5	4560.8	4596.1	4602.0	4586.3	4570.6	4551.0	4543.1
45°	4862.9	4905.1	4951.2	4963.0	4939.5	4920.8	4895.3	4895.3
47.5°	5241.6	5294.6	5346.6	5379.0	5357.4	5337.8	5307.4	5287.7
50°	5689.0	5761.6	5829.3	5862.6	5828.3	5791.0	5738.0	5720.4
52.5°	6250.1	6328.6	6387.5	6369.8	6316.8	6264.8	6207.0	6183.4
55°	6966.3	6992.8	6992.8	6926.0	6820.1	6732.8	6641.5	6611.1
57.5°	7861.9	7759.9	7603.0	7403.8	7153.6	6935.9	6788.7	6719.1
60°	8914.6	8424.1	7869.8	7325.3	6878.0	6509.1	6290.3	6190.3
62.5°	9616.0	8332.8	7222.3	6348.2	5704.7	5260.3	4958.1	4840.4
65°	8987.2	6949.6	5462.4	4416.6	3715.1	3262.9	2963.7	2853.8
67.5°	6582.7	4354.8	2908.7	2084.7	1527.5	1218.4	1095.8	1044.8
70°	2954.9	1533.3	939.8	733.8	632.8	580.8	558.2	550.4
72.5°	890.8	644.5	543.5	490.5	450.3	424.8	406.1	404.2
75°	537.6	447.3	397.3	365.9	340.4	319.8	310.0	307.1
77.5°	375.7	328.6	305.1	282.5	262.9	247.2	238.4	231.5
80°	263.9	241.3	230.5	217.8	205.0	190.3	177.6	171.7
82.5°	176.6	171.7	171.7	163.8	153.0	139.3	113.8	107.9
85°	113.8	112.8	114.8	111.8	104.0	89.3	73.6	69.7
87.5°	53.0	54.0	59.8	58.9	56.9	47.1	37.3	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)